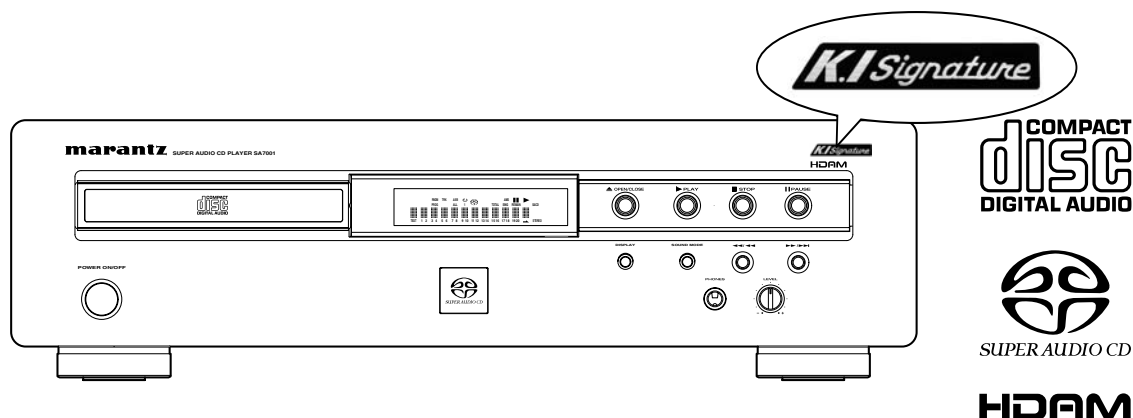


# Service Manual

SA7001KI /N1B/N1S

SA7001KI

## Super Audio CD Player



### TABLE OF CONTENTS

| SECTION 1                                              | PAGE |
|--------------------------------------------------------|------|
| 1. TECHNICAL SPECIFICATIONS AND UPDATE DISC .....      | 1-1  |
| 2. SERVICE HINTS AND TOOLS .....                       | 1-2  |
| 3. WARNING AND LASER SAFETY INSTRUCTIONS .....         | 1-3  |
| 4. TAKING THE DISC OUT OF EMERGENCY .....              | 1-4  |
| 5. UPDATA FIRMWARE .....                               | 1-5  |
| 6. SERVICE MODE .....                                  | 1-6  |
| 7. BLOCK DIAGRAM .....                                 | 1-7  |
| 8. SCHEMATIC DIAGRAM .....                             | 1-9  |
| 9. PARTS LOCATION .....                                | 1-15 |
| 10. MICROPROCESSOR AND IC DATA .....                   | 1-21 |
| 11. EXPLODED VIEW AND PARTS LIST .....                 | 1-25 |
| 12. ELECTRICAL PARTS LIST .....                        | 1-28 |
| <br><b>SECTION 2 (MECHA LOADER AND MECHA TRAVERSE)</b> |      |
| 1. EXPLODED VIEW AND PARTS LIST .....                  | 2-2  |
| <br><b>SECTION 3 (SUPER AUDIO CD PWB MODULE)</b>       |      |
| 1. IC DATA .....                                       | 3-2  |
| 2. BLOCK DIAGRAM .....                                 | 3-23 |
| 3. SCHEMATIC DIAGRAM .....                             | 3-25 |
| 4. PARTS LOCATION .....                                | 3-37 |
| 5. ELECTRICAL PARTS LIST .....                         | 3-41 |

Please use this service manual with referring to the user guide ( D.F.U. ) without fail.

修理の際は、必ず取扱説明書を準備し操作方法を確認の上作業を行ってください。

# marantz®

## SA7001KI

Part no. 90M28AK855020

First Issue 2006.02

MZ

## MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, **MARANTZ** company has created the ultimate in stereo sound. Only original **MARANTZ** parts can insure that your **MARANTZ** product will continue to perform to the specifications for which it is famous.

Parts for your **MARANTZ** equipment are generally available to our National Marantz Subsidiary or Agent.

### ORDERING PARTS :

Parts can be ordered either by mail or by Fax.. In both cases, the correct part number has to be specified.

The following information must be supplied to eliminate delays in processing your order :

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature : any order form or Fax. must be signed, otherwise such part order will be considered as null and void.

#### USA

**MARANTZ AMERICA, INC**  
1100 MAPLEWOOD DRIVE  
ITASCA, IL. 60143  
USA  
PHONE : 630 - 741 - 0300  
FAX : 630 - 741 - 0301

#### EUROPE / TRADING

**MARANTZ EUROPE B.V.**  
P. O. BOX 8744, BUILDING SILVERPOINT  
BEEMDSTRAAT 11, 5653 MA EINDHOVEN  
THE NETHERLANDS  
PHONE : +31 - 40 - 2507844  
FAX : +31 - 40 - 2507860

#### CANADA

**MARANTZ CANADA INC.**  
5-505 APPLE CREEK BLVD.  
MARKHAM, ONTARIO L3R 5B1  
CANADA  
PHONE : 905 - 415 - 9292  
FAX : 905 - 475 - 4159

#### AUSTRALIA

**QualiFi Pty Ltd,**  
24 LIONEL ROAD,  
MT. WAVERLEY VIC 3149  
AUSTRALIA  
PHONE : +61 - (0)3 - 9543 - 1522  
FAX : +61 - (0)3 - 9543 - 3677

#### THAILAND

**MRZ STANDARD CO., LTD**  
746 - 754 MAHACHAI ROAD.,  
WANGBURAPAPIROM, PHRANAKORN,  
BANGKOK, 10200 THAILAND  
PHONE : +66 - 2 - 222 9181  
FAX : +66 - 2 - 224 6795

#### SINGAPORE

**WO KEE HONG DISTRIBUTION PTE LTD**  
No.1 JALAN KILANG TIMOR  
#08-03 PACIFIC TECH CENTRE  
SINGAPORE 159303  
PHONE : +65 6376 0338  
FAX : +65 6376 0166

#### NEW ZEALAND

**WILDASH AUDIO SYSTEMS NZ**  
14 MALVERN ROAD MT ALBERT  
AUCKLAND NEW ZEALAND  
PHONE : +64 - 9 - 8451958  
FAX : +64 - 9 - 8463554

#### TAIWAN

**PAI- YUING CO., LTD.**  
6 TH FL NO, 148 SUNG KIANG ROAD,  
TAIPEI, 10429, TAIWAN R.O.C.  
PHONE : +886 - 2 - 25221304  
FAX : +886 - 2 - 25630415

#### MALAYSIA

**WO KEE HONG ELECTRONICS SDN. BHD.**  
2ND FLOOR BANGUNAN INFINITE CENTRE  
LOT 1, JALAN 13/6, 46200 PETALING JAYA  
SELANGOR DARUL EHSAN, MALAYSIA  
PHONE : +60 - 3 - 7954 8088  
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**D&M Holdings Inc.**  
D&M BUILDING, 2-1 NISSHIN-CHO,  
KAWASAKI-KU, KAWASAKI-SHI,  
KANAGAWA, 210-8569 JAPAN

株式会社 ディーアンドエムホールディングス

本 社 〒210-8569  
神奈川県川崎市川崎区日新町2-1 D&Mビル

#### KOREA

**MARANTZ KOREA CO., LTD.**  
ROOM 604, ELECTRO OFFICE, 16-58,  
HANGGANG-RO 3GA, YONGSAN-KU,  
SEOUL, 140-013, KOREA  
PHONE : +82 - 2 - 323 - 2155  
FAX : +82 - 2 - 323 - 2154

#### CHINA

**MARANTZ SHANGHAI TRADING LTD.**  
ROOM.506 SHANGHAI LIGHT INDUSTRY MANSION  
1578 NANJING (WEST) ROAD SHANGHAI  
CHINA  
TEL : 021 - 6248 - 1064  
FAX : 021 - 6248 - 3565

### SHOCK, FIRE HAZARD SERVICE TEST :

**CAUTION :** After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins ( with unit NOT connected to AC mains and its Power switch ON ), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

In case of difficulties, do not hesitate to contact the Technical  
Department at above mentioned address.

## 1. TECHNICAL SPECIFICATIONS AND UPDATE DISC

|                               | Super Audio CD         | CD                           |
|-------------------------------|------------------------|------------------------------|
| <b>Audio Characteristics</b>  |                        |                              |
| Analog output                 |                        |                              |
| Channels                      | 2channels              | 2channels                    |
| Frequency range               | 2Hz — 100kHz           | 2Hz — 20kHz                  |
| Frequency characteristics     | 2Hz — 50kHz (-3dB)     | 2Hz — 20kHz                  |
| Dynamic range                 | 112dB                  | More than 100dB              |
| THD (1kHz)                    | 0.002%                 | 0.002%                       |
| Wow & Flutter                 | Precision of quartz    | Precision of quartz          |
| Output level                  | 2.3V RMS stereo        | 2.3V RMS stereo              |
| Digital output                |                        |                              |
| Output level (Cinch JACK)     | —                      | 0.5Vp-p (75Ω)                |
| Output level (Optical)        | —                      | -19dBm                       |
| Headphone output level        | 0.5W / 32Ω (max, Vol.) | 0.5W / 32Ω (max, Vol.)       |
| <b>Optical Readout System</b> |                        |                              |
| Laser                         | AlGaAs                 | AlGaAs                       |
| Wave length                   | 650nm                  | 780nm                        |
| <b>Signal format</b>          |                        |                              |
| Sampling frequency            | 1-bit DSD<br>2.8224MHz | 16-bit linear PCM<br>44.1kHz |

### Power Supply

Input Voltage, Frequency [/N]..... AC 230V 50Hz

Power Consumption..... 19W

### Cabinet, etc.

Dimensions ..... 440 × 128 × 339mm

Net weight ..... 7.7kg

Operating temperatures ..... +5°C ~ +35°C

Operating humidity ..... 5 ~ 90% (without dew)

### Accessories

• Remote control unit (RC7001SA) ..... 1

Dimensions (Width × Height × Depth) ..... 48 × 25.7 × 145mm

Net weight (without Batteries) ..... 160g

• AAA (R03) Batteries ..... 2

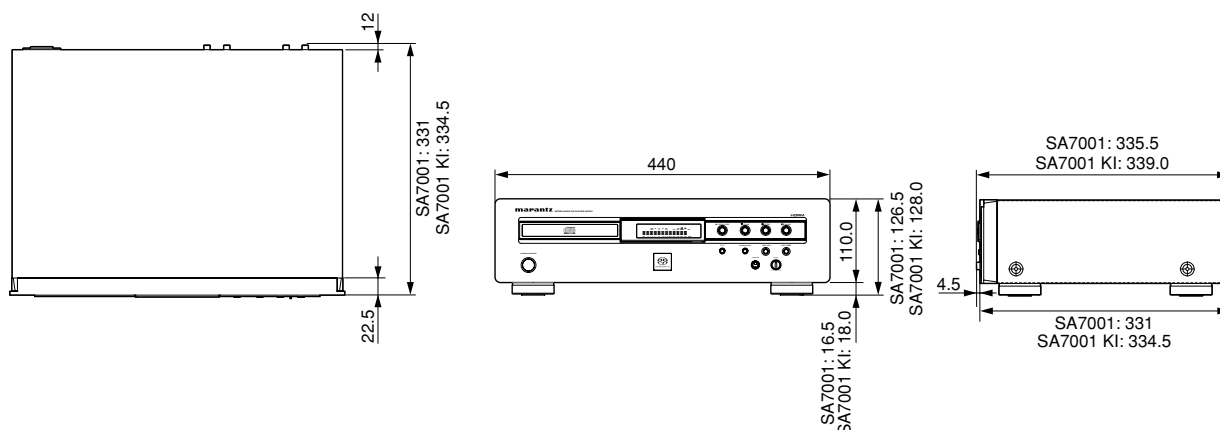
• AC Power cord ..... 1

• Audio cable ..... 1 pairs

• Remote connection Cable ..... 1

• User's Guide ..... 1

### Dimensions (unit: mm)

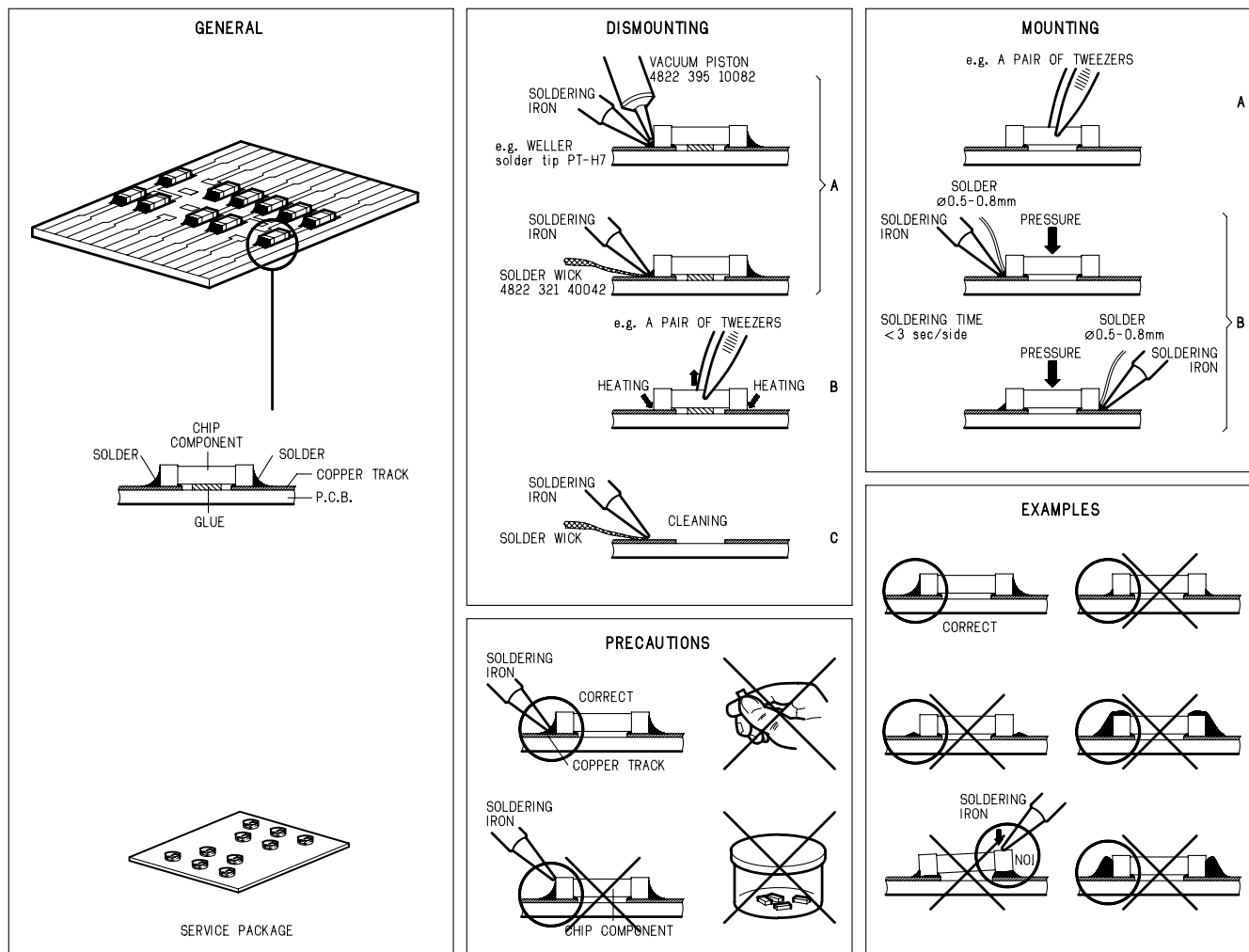


### UPDATE DISC

Update of the CPU (IC731)..... 90M-SA7001DVR

## 2. SERVICE HINTS AND TOOLS

### SERVICE HINTS



### SERVICE TOOLS

|                                                             |                |
|-------------------------------------------------------------|----------------|
| Audio signals disc                                          | 4822 397 30184 |
| Disc without errors (SBC444)+                               |                |
| Disc with DO errors, black spots and fingerprints (SBC444A) | 4822 397 30245 |
| Disc (65 min 1kHz) without no pause                         | 4822 397 30155 |
| Max. diameter disc (58.0 mm)                                | 4822 397 60141 |
| Torx screwdrivers                                           |                |
| Set (straight)                                              | 4822 395 50145 |
| Set (square)                                                | 4822 395 50132 |
| 13th order filter                                           | 4822 395 30204 |
| DVD test disc (PAL)                                         | 4822 397 10131 |
| DVD test disc (NTSC) ALMEDIO                                | TDV-540        |

### 3. WARNING AND LASER SAFETY INSTRUCTIONS

(GB)

#### WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.

When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance.

Keep components and tools also at this potential.

ESD



(NL)

#### WAARSCHUWING

Alle IC's en vele andere halfgeleiders zijn gevoelig voor elektrostatische ontladingen (ESD).

Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen.

Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.

Houd componenten en hulpmiddelen ook op hetzelfde potentiaal.

(F)

#### ATTENTION

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD).

Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation.

Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfiler le bracelet serti d'une résistance de sécurité.

Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

(D)

#### WARNUNG

Alle IC und viele andere Halbleiter sind empfindlich gegen elektrostatische Entladungen (ESD).

Unvorsorgfältige Behandlung bei der Reparatur kann die Lebensdauer drastisch vermindern. Sorgen sie dafür, das Sie im Reparaturfall über ein Pulsarmband mit Widerstand mit dem Massepotential des Gerätes verbunden sind.

Halten Sie Bauteile und Hilfsmittel ebenfalls auf diesem Potential.

(I)

#### AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).

La loro longevita potrebbe essere fortemente ridatta in caso di non osservazione della piu grande cauzione alla loro manipolazione.

Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza.

Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

(GB)

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

(NL)

Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt terug gebracht en dat onderdelen, identiek aan de gespecificeerde worden toegepast.

(D)

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Gerats darf nicht verändert werden.

Fur Reparaturen sind Original-Ersatzteile zu verwenden.

(I)

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati pezzi di ricambio idetici a quelli specificati.

"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne."

(F)

Les normes de sécurité exigent que l'appareil soit remis a l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

### LASER SAFETY

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.



USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURE OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

#### AVOID DIRECT EXPOSURE TO BEAM

#### WARNING

The use of optical instruments with this product will increase eye hazard.

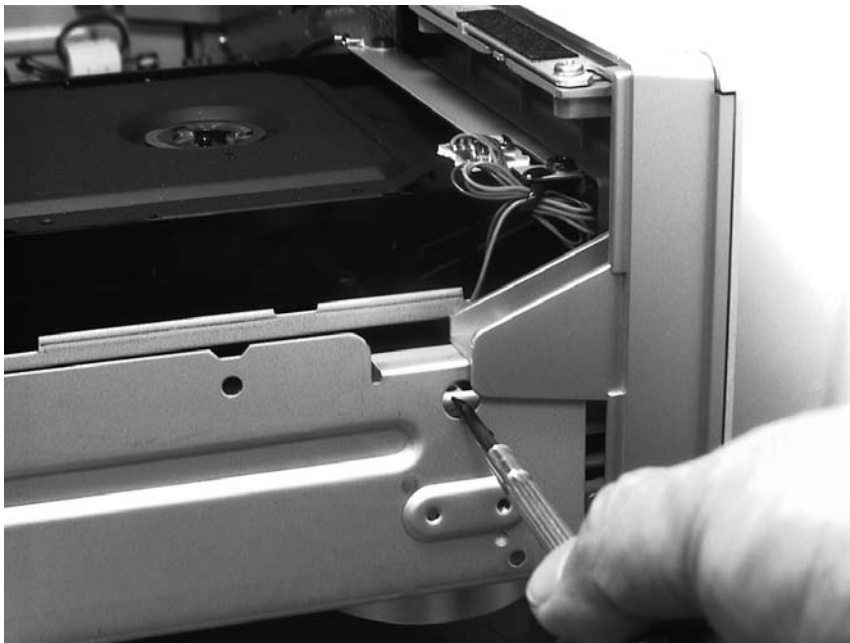
Repair handling should take place as much as possible with a disc loaded inside the player

#### WARNING LOCATION: INSIDE ON LASER COVERSIELD

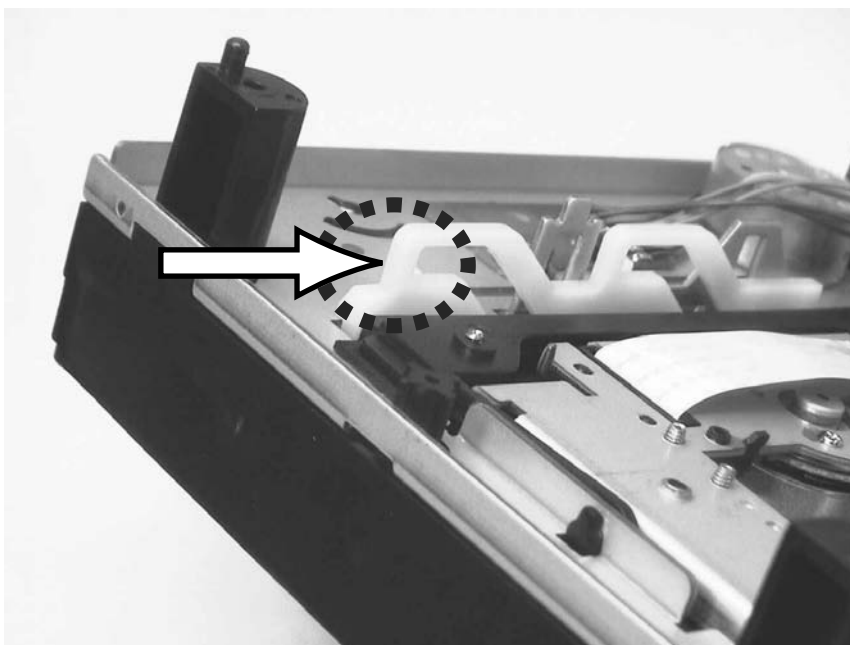
CAUTION VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM  
ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING UNDGÅ UDSÆTTELSE FOR STRÅLING  
ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL Å PNES UNNGÅ EKSPONERING FOR STRÅLEN  
VARNING SYNLIG OCH OSYNLIG LASERSTRÅLNING NÅR DENNA DEL ÅR ÖPPNAD BETRAKTA EJ STRÅLEN  
VARO! AVATT AESSA OLET ALTTIINA NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE LASER SÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN  
VORSICHT SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETSEN  
DANGER VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID DIRECT EXPOSURE TO BEAM  
ATTENTION RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE EXPOSITION DANGEREUSE AU FAISCEAU

#### 4. TAKING THE DISC OUT OF EMERGENCY

1. To open the stuck tray, insert a pin into the eject pinhole and push the eject lever.
2. Use a pin  $\phi 6\text{mm}$  or less.



This picture shows the unit upside down. The eject lever is pointed by the arrow. The lever is thin so aim the narrow area carefully.



## 5. UPDATE FIRMWARE

Have UPDATE DISC. (90M-SA7001DVR)

**Attention :** Don't turn off the unit until disc tray opens automatically during the updating. When the turn off the unit halfway, The unit can't be operated any more.

1. Press the **POWER** button while pressing the **PLAY** and **OPEN/CLOSE** buttons.
2. Press the **OPEN/CLOSE** button to open the tray, Insert the update DVD-ROM (part No.:90M-SA7001DVR).
3. Press the **SOUND MODE** and **STOP** buttons.  
The Display indicates " VERSION UP ".
4. Press the **OPEN/CLOSE** button to close the tray.  
The Display indicates " TOC Reading " >>> " FILE CHECK " >>> " ERASE " >>> " WRITING ".
5. Software updating will be done automatically.  
When the updating is finished, The disc tray opens automatically.  
(Updating takes about 1 minute.)
6. Remove the DVD-ROM from the disc tray.

Update is completed, Press the **POWER** button to turn off the unit.

## ファームウェアのアップデート方法

必要な物 : UPDATE DISC. (90M-SA7001DVR)

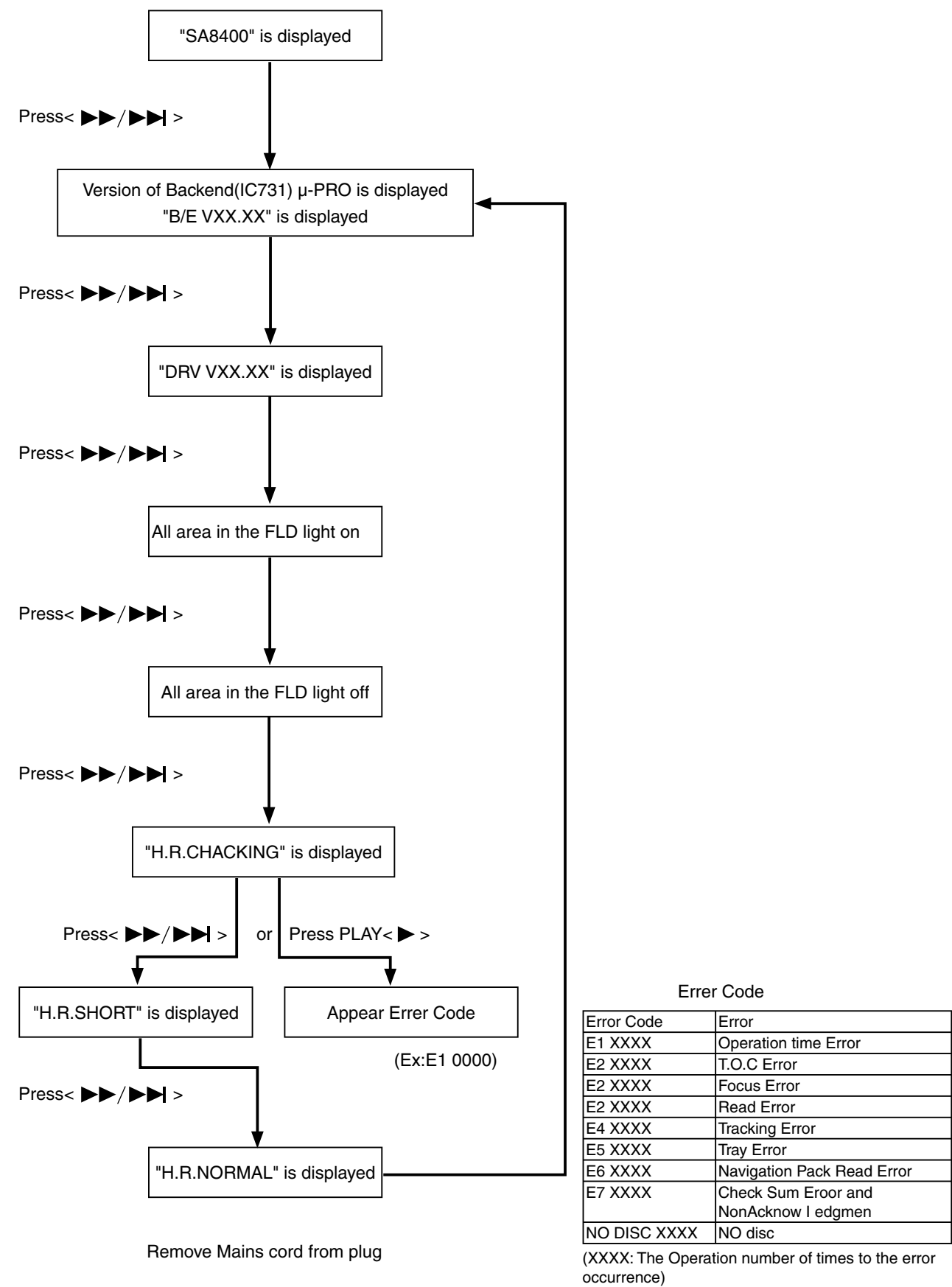
**注意 )** 書き換え中は、ディスクトレイが自動的にオープンするまで絶対にセットの電源を切らないで下さい。途中で電源を切ると通常の動作も出来なくなります。

1. **PLAY** と **OPEN/CLOSE** ボタンを押しながら **POWER** ボタンを押します。
2. **OPEN/CLOSE** ボタンを押し、トレイをオープンします。  
アップデート DVD-ROM ( 部品番号 90M-SA7001DVR) を挿入します。
3. **SOUND MODE** と **STOP** ボタンを同時に押します。  
表示部には " VERSION UP " と表示されます。
4. **OPEN/CLOSE** ボタンを押します。トレイが閉じます。  
表示部には " TOC Reading " >>> " FILE CHECK " >>> " ERASE " >>> " WRITING " の順に表示されます。 .
5. ソフトの書き換えは自動的に行われます。書き換えが終了するとディスクトレイは自動的にオープンします。  
( アップデートには約 1 分かかります .)
6. ディスクトレイから DVD-ROM を取り出します。

以上で、ソフトウェアのアップデートは完了です。 **POWER** ボタンを押し電源を切ります。

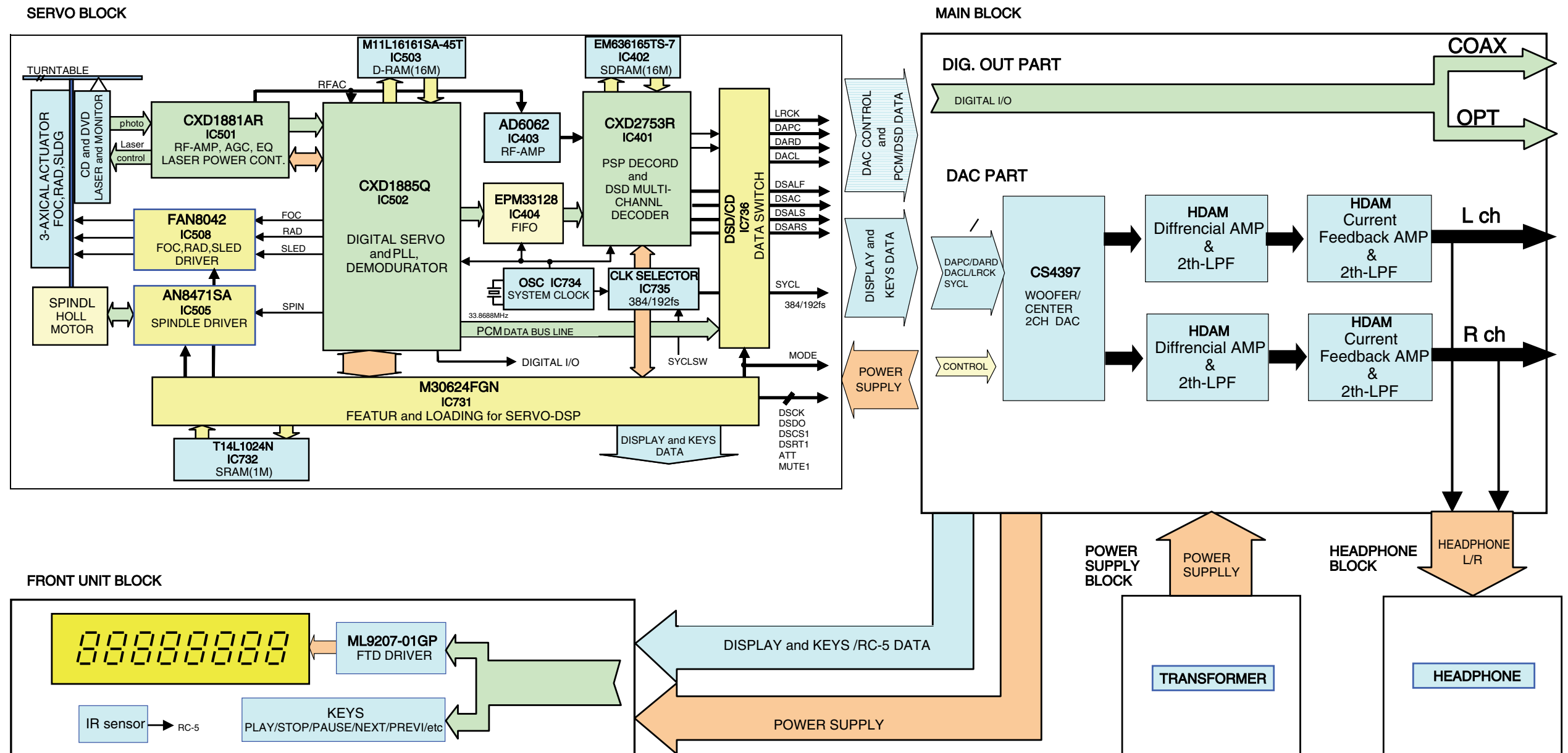
6. SERVICE MODE

The error code is indicated when a problem DISC is inserted first.  
Press the **POWER** button While pressing **PLAY** and **OPEN/CLOSE** button



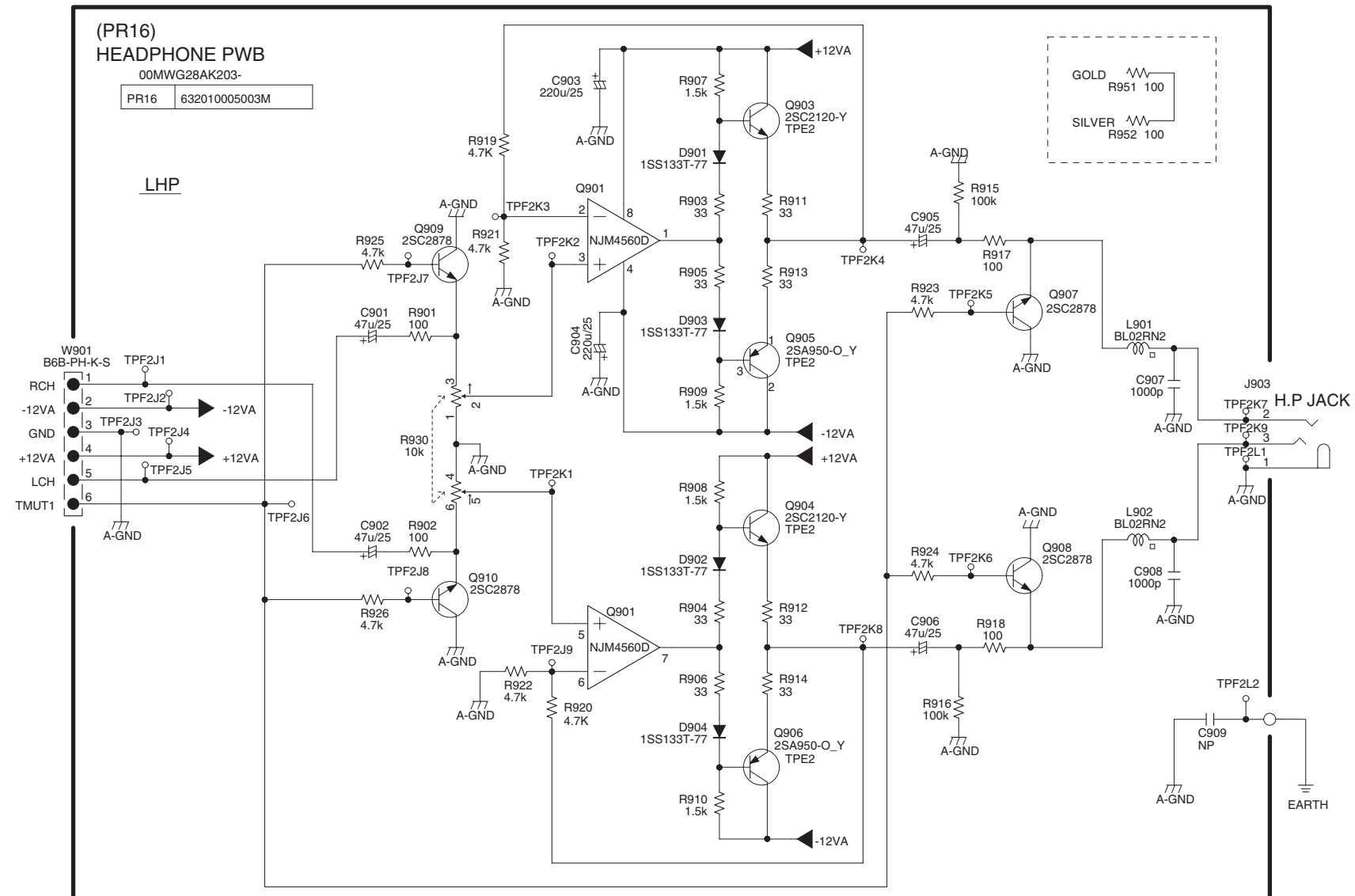


7. BLOCK DIAGRAM



1-9

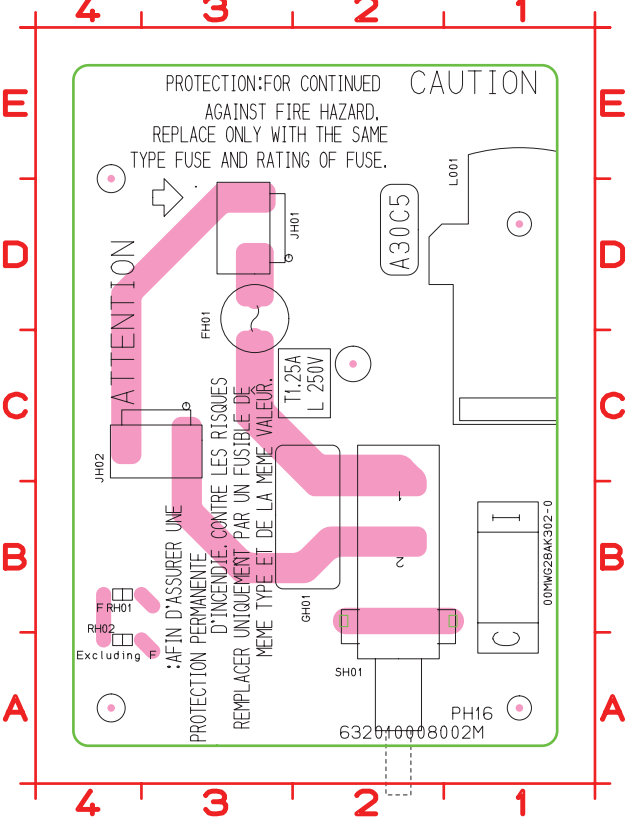






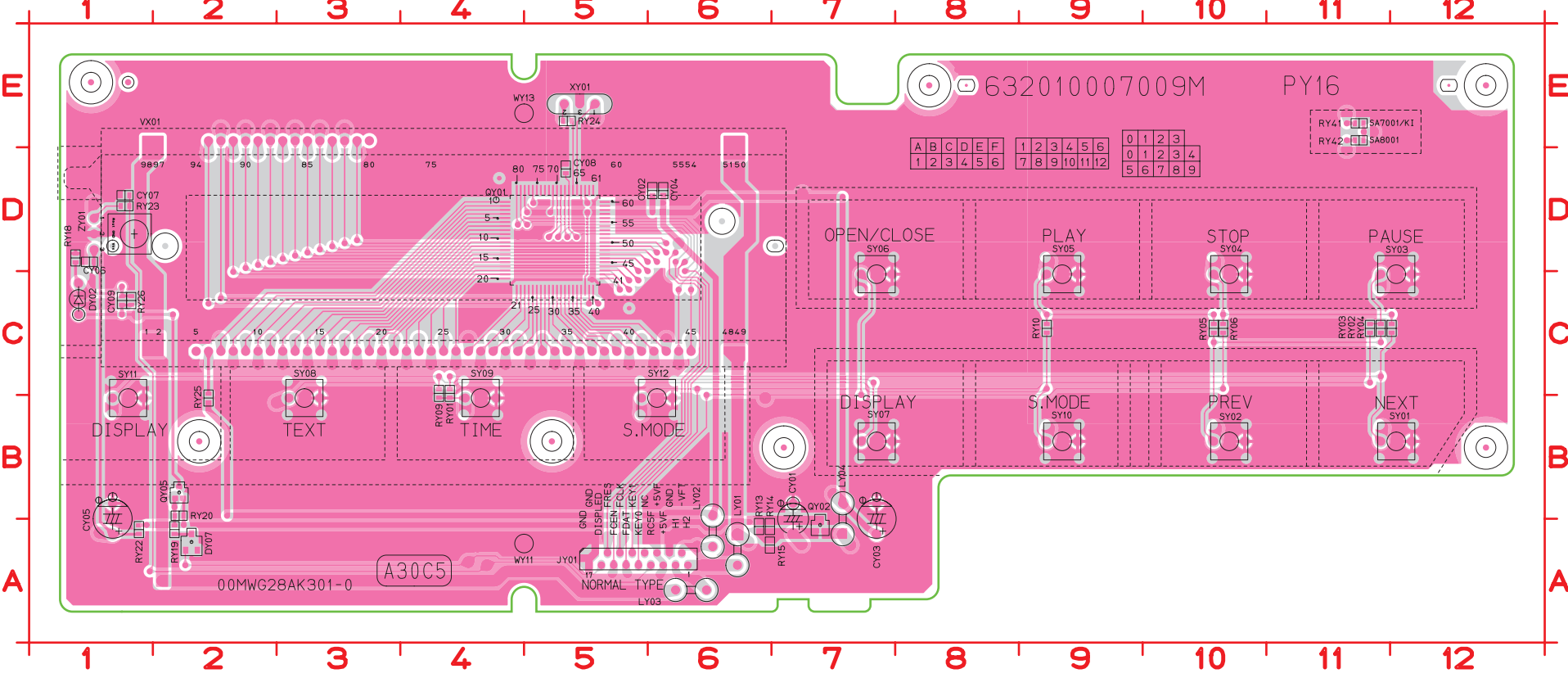
9. PARTS LOCATION

PH16 B



|      |    |
|------|----|
| FH01 | C3 |
| GH01 | B2 |
| JH01 | D3 |
| JH02 | C3 |
| RH01 | B4 |
| RH02 | A4 |
| SH01 | B2 |

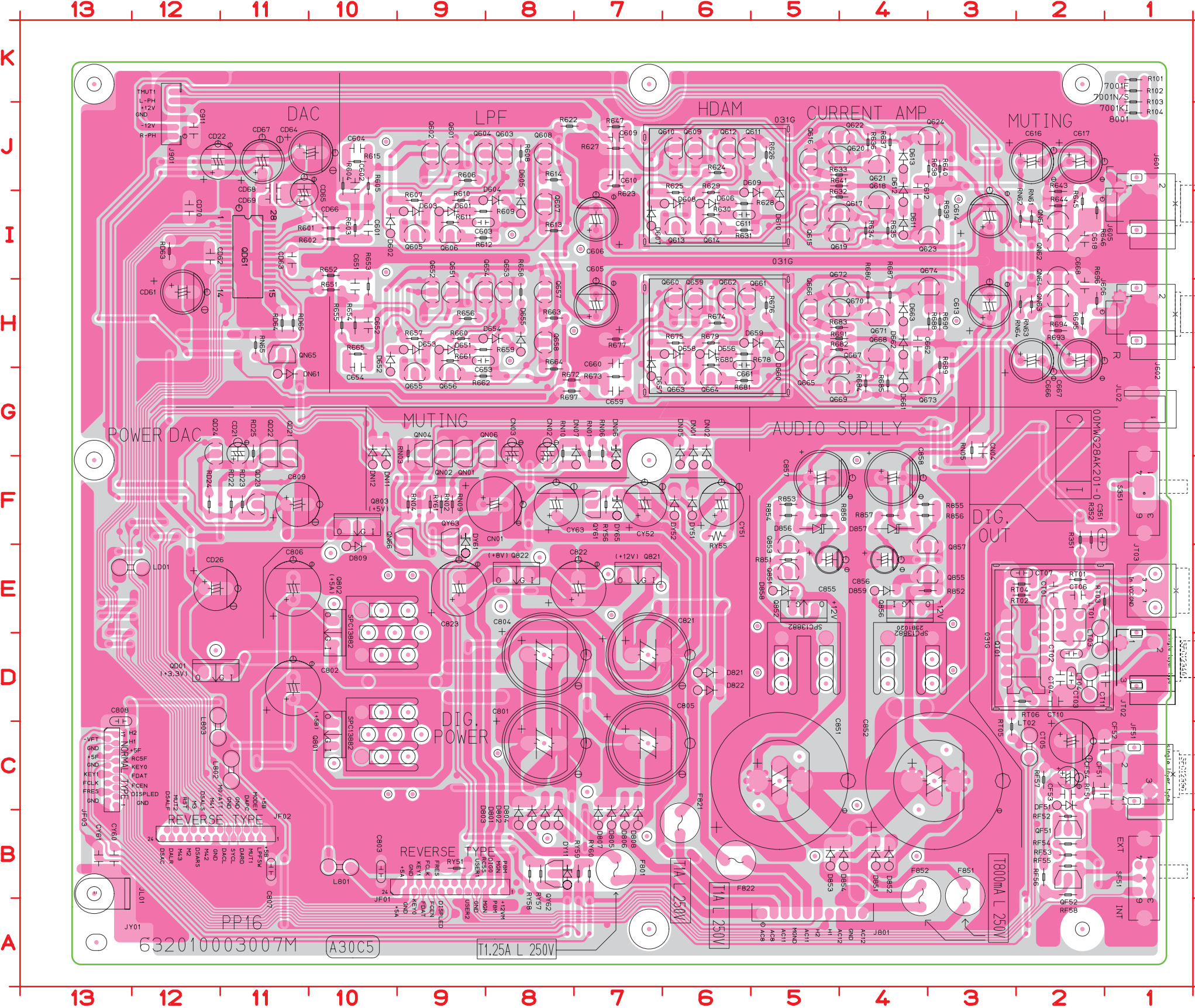
PY16 A



|      |    |      |     |      |     |
|------|----|------|-----|------|-----|
| CY01 | A7 | RY01 | C4  | RY41 | E11 |
| CY02 | D6 | RY02 | C11 | RY42 | E11 |
| CY03 | A7 | RY03 | C11 | SY01 | B12 |
| CY04 | D6 | RY04 | C12 | SY02 | B10 |
| CY05 | A1 | RY05 | C10 | SY03 | C12 |
| CY06 | D1 | RY06 | C10 | SY04 | C10 |
| CY07 | D1 | RY09 | C4  | SY05 | C9  |
| CY08 | D5 | RY10 | C9  | SY06 | C7  |
| CY09 | C1 | RY13 | A6  | SY07 | B7  |
| DY02 | C1 | RY14 | A6  | SY08 | B3  |
| DY07 | A2 | RY15 | A6  | SY09 | B4  |
| JY01 | A6 | RY18 | D1  | SY10 | B9  |
| LY01 | A6 | RY19 | A2  | SY11 | B1  |
| LY02 | A6 | RY20 | B2  | SY12 | B6  |
| LY03 | A6 | RY22 | A1  | VX01 | D4  |
| LY04 | A7 | RY23 | D1  | WY11 | A5  |
| QY01 | D5 | RY24 | E5  | WY13 | E5  |
| QY02 | A7 | RY25 | B2  | XY01 | E5  |
| QY05 | B2 | RY26 | C1  | ZY01 | D1  |

鉛フリー半田  
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。  
**Lead-free Solder**  
When soldering, use the Lead-free Solder (Sn-Ag-Cu).





|      |     |      |     |      |     |
|------|-----|------|-----|------|-----|
| C351 | E2  | CD61 | H12 | D655 | H8  |
| C601 | I10 | CD62 | I12 | D656 | H6  |
| C602 | J10 | CD63 | I11 | D657 | G7  |
| C603 | I8  | CD64 | J11 | D658 | H6  |
| C604 | J10 | CD65 | I11 | D659 | H6  |
| C605 | H7  | CD66 | I10 | D660 | H5  |
| C606 | I7  | CD67 | J11 | D661 | G4  |
| C609 | J7  | CD68 | J11 | D662 | H4  |
| C610 | J7  | CD69 | I11 | D663 | H4  |
| C611 | I5  | CD70 | I12 | D801 | B8  |
| C612 | I4  | CF51 | C2  | D802 | B8  |
| C613 | H3  | CF52 | C2  | D803 | B8  |
| C614 | I3  | CF53 | C2  | D804 | B8  |
| C616 | J2  | CF54 | C2  | D805 | B7  |
| C617 | J2  | CN01 | F9  | D806 | B7  |
| C618 | I2  | CN02 | F8  | D807 | B7  |
| C651 | H10 | CN03 | F8  | D808 | B7  |
| C652 | H10 | CN04 | F3  | D809 | E10 |
| C653 | H8  | CT01 | E2  | D821 | D6  |
| C654 | H10 | CT02 | D2  | D822 | D6  |
| C659 | G7  | CT03 | D2  | D851 | B4  |
| C660 | H7  | CT04 | D2  | D852 | B4  |
| C661 | H5  | CT05 | C2  | D853 | B5  |
| C662 | H4  | CT06 | E2  | D854 | B4  |
| C666 | H2  | CT07 | E3  | D856 | F5  |
| C667 | H2  | CT10 | D2  | D857 | F4  |
| C668 | H2  | CT11 | D1  | D858 | E5  |
| C801 | C8  | CY51 | F6  | D859 | E4  |
| C802 | D11 | CY52 | F7  | DF51 | C2  |
| C803 | B10 | CY60 | B13 | DN01 | F6  |
| C804 | D8  | CY61 | B13 | DN02 | F6  |
| C805 | C7  | CY63 | F8  | DN05 | F6  |
| C806 | E11 | D601 | I9  | DN06 | F7  |
| C807 | B11 | D602 | I10 | DN07 | F7  |
| C808 | D13 | D603 | I9  | DN11 | F10 |
| C809 | F11 | D604 | I9  | DN12 | F10 |
| C821 | D7  | D605 | I8  | DN61 | G11 |
| C822 | E7  | D606 | I6  | DY11 | B8  |
| C823 | E9  | D607 | I7  | DY51 | F6  |
| C851 | C5  | D608 | I6  | DY52 | F6  |
| C852 | C4  | D609 | I6  | DY61 | E9  |
| C855 | E5  | D610 | I5  | DY65 | F7  |
| C856 | E4  | D611 | I4  | F801 | B7  |
| C857 | F5  | D612 | I4  | F821 | B6  |
| C858 | F4  | D613 | J4  | F822 | B6  |
| C911 | J12 | D651 | H9  | F851 | A3  |
| CD21 | F11 | D652 | G10 | F852 | A4  |
| CD22 | J12 | D653 | H9  | J601 | I1  |
| CD26 | E12 | D654 | H9  | J602 | H1  |

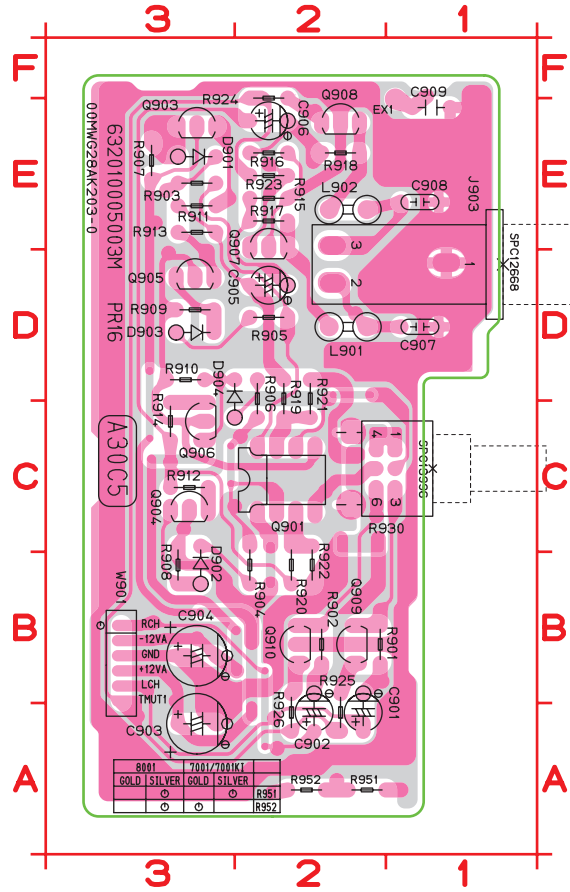
鉛フリー半田  
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

**Lead-free Solder**  
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

PP16 B

|      |     |      |     |      |     |      |     |      |     |
|------|-----|------|-----|------|-----|------|-----|------|-----|
| J605 | I1  | Q655 | G9  | QT01 | D3  | R647 | J7  | RD22 | F11 |
| J606 | H1  | Q656 | G9  | QY61 | F7  | R651 | H10 | RD23 | F11 |
| J801 | A5  | Q657 | H8  | QY62 | B8  | R652 | I10 | RD24 | F12 |
| J901 | J12 | Q658 | H8  | QY63 | F9  | R653 | H10 | RD25 | F11 |
| JF01 | B8  | Q659 | H6  | R101 | K1  | R654 | H10 | RD63 | I12 |
| JF02 | B11 | Q660 | H6  | R102 | K1  | R655 | H10 | RD64 | H11 |
| JF03 | C13 | Q661 | H6  | R103 | K1  | R656 | H9  | RD65 | H11 |
| JF51 | C1  | Q662 | H6  | R104 | J1  | R657 | H9  | RF51 | C2  |
| JL01 | B13 | Q663 | G6  | R351 | E2  | R658 | H8  | RF52 | B2  |
| JL02 | G1  | Q664 | G6  | R352 | E2  | R659 | H8  | RF53 | B2  |
| JT02 | D1  | Q665 | H5  | R601 | I10 | R660 | H9  | RF54 | B2  |
| JT03 | E1  | Q666 | H5  | R602 | I10 | R661 | H9  | RF55 | B2  |
| JY01 | A12 | Q667 | H5  | R603 | I10 | R662 | G8  | RF56 | B2  |
| L801 | B10 | Q668 | H4  | R604 | I10 | R663 | H8  | RF57 | C2  |
| L802 | C11 | Q669 | G5  | R605 | I10 | R664 | G8  | RF58 | B2  |
| L803 | C12 | Q670 | H5  | R606 | J9  | R665 | H10 | RN01 | F7  |
| LD01 | E12 | Q671 | H4  | R607 | I9  | R672 | G7  | RN02 | F9  |
| LT01 | E2  | Q672 | H5  | R608 | J8  | R673 | G7  | RN03 | F9  |
| LT02 | C2  | Q673 | G3  | R609 | I8  | R674 | H6  | RN04 | F9  |
| LT03 | D2  | Q674 | H3  | R610 | I9  | R675 | H6  | RN05 | F3  |
| LT04 | D2  | Q801 | C10 | R611 | I9  | R676 | H5  | RN06 | F7  |
| Q601 | J9  | Q802 | E10 | R612 | I8  | R677 | H7  | RN09 | F9  |
| Q602 | J9  | Q803 | F10 | R613 | I8  | R678 | H5  | RN10 | F8  |
| Q603 | J8  | Q821 | E7  | R614 | J8  | R679 | H6  | RN61 | I2  |
| Q604 | J9  | Q822 | E8  | R615 | J10 | R680 | H6  | RN62 | I2  |
| Q605 | I9  | Q851 | E5  | R622 | J7  | R681 | G5  | RN63 | H2  |
| Q606 | I9  | Q852 | E5  | R623 | J7  | R682 | H4  | RN64 | H2  |
| Q607 | I8  | Q853 | E5  | R624 | J6  | R683 | H4  | RN65 | H11 |
| Q608 | J8  | Q855 | E4  | R625 | I6  | R684 | G4  | RT01 | E2  |
| Q609 | J6  | Q856 | E4  | R626 | J5  | R685 | G4  | RT02 | E3  |
| Q610 | J6  | Q857 | E4  | R627 | J7  | R686 | H4  | RT03 | E2  |
| Q611 | J6  | QD01 | D12 | R628 | I5  | R687 | H4  | RT04 | E3  |
| Q612 | J6  | QD21 | G11 | R629 | I6  | R688 | H3  | RT05 | C3  |
| Q613 | I6  | QD22 | G11 | R630 | I6  | R689 | G3  | RT06 | D2  |
| Q614 | I6  | QD23 | F11 | R631 | I5  | R690 | H3  | RY51 | B9  |
| Q615 | I5  | QD24 | G12 | R632 | I4  | R691 | H4  | RY55 | F6  |
| Q616 | J5  | QD61 | I11 | R633 | J4  | R693 | H2  | RY56 | F7  |
| Q617 | I5  | QF51 | B2  | R634 | I4  | R694 | H2  | RY57 | B8  |
| Q618 | I4  | QF52 | B2  | R635 | I4  | R695 | H2  | RY58 | B8  |
| Q619 | I5  | QN01 | G9  | R636 | J4  | R696 | H2  | RY59 | B7  |
| Q620 | J5  | QN02 | G9  | R637 | J4  | R697 | G7  | RY60 | B7  |
| Q621 | J4  | QN04 | G9  | R638 | J3  | R851 | E5  | RY61 | F9  |
| Q622 | J5  | QN06 | G8  | R639 | I3  | R852 | E3  | S351 | F1  |
| Q623 | I3  | QN61 | I2  | R640 | J3  | R853 | F5  | SF51 | B1  |
| Q624 | J3  | QN62 | I2  | R641 | J4  | R854 | F5  |      |     |
| Q651 | H9  | QN63 | H2  | R643 | I2  | R855 | F4  |      |     |
| Q652 | H9  | QN64 | I2  | R644 | I2  | R856 | F4  |      |     |
| Q653 | H8  | QN65 | H11 | R645 | I2  | R857 | F4  |      |     |
| Q654 | H9  | QN66 | F9  | R646 | I2  | R858 | F5  |      |     |

PR16 B

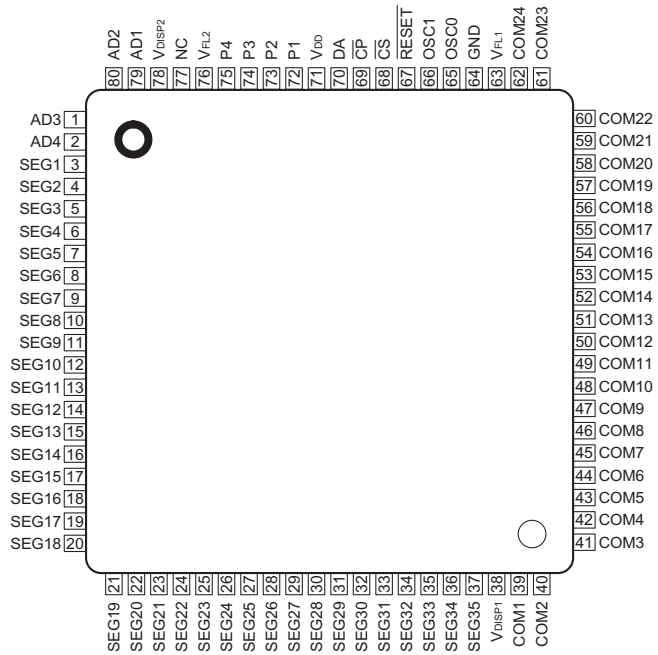


|      |    |      |    |      |    |
|------|----|------|----|------|----|
| C901 | A2 | Q910 | B2 | R925 | A2 |
| C902 | A2 | R901 | B2 | R926 | A2 |
| C903 | A3 | R902 | B2 | R930 | C1 |
| C904 | B3 | R903 | E3 | R951 | A2 |
| C905 | D2 | R904 | B2 | R952 | A2 |
| C906 | E2 | R905 | D2 | W901 | B3 |
| C907 | D1 | R906 | C2 |      |    |
| C908 | E1 | R907 | E3 |      |    |
| C909 | E1 | R908 | B3 |      |    |
| D901 | E3 | R909 | D3 |      |    |
| D902 | B3 | R910 | D3 |      |    |
| D903 | D3 | R911 | E3 |      |    |
| D904 | C3 | R912 | C3 |      |    |
| EX1  | E1 | R913 | E3 |      |    |
| J903 | D1 | R914 | C3 |      |    |
| L901 | D2 | R915 | E2 |      |    |
| L902 | E2 | R916 | E2 |      |    |
| Q901 | C2 | R917 | E2 |      |    |
| Q903 | E3 | R918 | E2 |      |    |
| Q904 | C3 | R919 | C2 |      |    |
| Q905 | D3 | R920 | B2 |      |    |
| Q906 | C3 | R921 | C2 |      |    |
| Q907 | E2 | R922 | B2 |      |    |
| Q908 | E2 | R923 | E2 |      |    |
| Q909 | B2 | R924 | F2 |      |    |

鉛フリー半田  
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。  
**Lead-free Solder**  
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

## 10. MICROPROCESSOR AND IC DATA

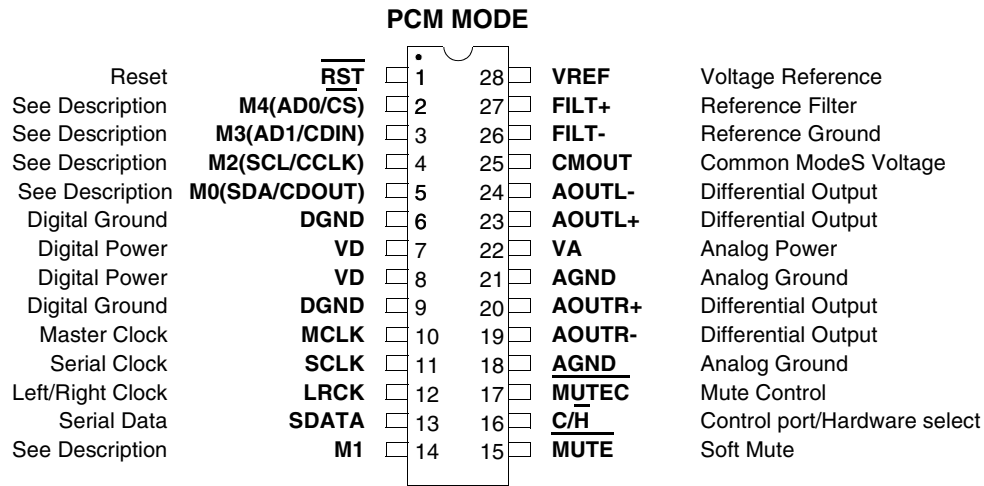
**QY01 : ML9207-01**



## ML9207-01 Terminal Function

| Pin No.      | Pin Name              | I/O | Function                                                                                                                                                                                                 |
|--------------|-----------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3~37         | SEG1~35               | O   | FL display anode drive output pin                                                                                                                                                                        |
| 39~62        | COM1~24               | O   | FL display grid drive output pin                                                                                                                                                                         |
| 1, 2, 79, 80 | AD1~4                 | O   | FL display anode drive output pin                                                                                                                                                                        |
| 72~75        | P1~4                  | O   | General port output pin                                                                                                                                                                                  |
| 71           | V <sub>DD</sub>       |     | V <sub>DD</sub> -GND: Power supply for logic block<br>V <sub>DISP</sub> -V <sub>FL</sub> : Power supply for FL display drive<br>For V <sub>DD</sub> and V <sub>DISP</sub> , apply from same power source |
| 38, 78       | V <sub>DISP1</sub> ~2 |     |                                                                                                                                                                                                          |
| 64           | GND                   |     |                                                                                                                                                                                                          |
| 63, 76       | V <sub>FL1</sub> ~2   |     |                                                                                                                                                                                                          |
| 70           | DA                    | I   | Serial data input pin (positive logic)                                                                                                                                                                   |
| 69           | $\overline{CP}$       | I   | Shift clock input pin                                                                                                                                                                                    |
| 68           | $\overline{CS}$       | I   | Chip select input pin                                                                                                                                                                                    |
| 67           | $\overline{RESET}$    | I   | Reset input pin                                                                                                                                                                                          |
| 65           | OSC0                  | I   | Pin for self-oscillation                                                                                                                                                                                 |
| 66           | OSC1                  | O   |                                                                                                                                                                                                          |

**QD61 : CS4397**



## Reset - RST

*Pin 1, Input*

*Function:*

The device enters a low power mode and all internal state machines registers are reset when low. When high, the device will be in a normal operation mode .

| RST | DESCRIPTION           |
|-----|-----------------------|
| 0   | Enabled               |
| 1   | Normal operation mode |

## Digital Ground - DGND

### Pins 6 and 9, Inputs

*Function:*

Digital ground reference.

## Digital Power - VD

*Pins 7 and 8, Input*

*Function:*

Digital power supply. Typically 5.0 to 3.0 VDC.

## Master Clock - MCLK

*Pin 10, Input*

*Function:*

The master clock frequency must be either 256x, 384x, 512x or 768x the input sample rate in Single Speed Mode; either 128x, 192x 256x or 384x the input sample rate in Double Speed Mode; or 64x, 96x 128x or 192x the input sample rate in Quad Speed Mode. Tables 4-6 illustrate the standard audio sample rates and the required master clock frequencies.

| Sample Rate (kHz) | MCLK (MHz) |         |         |         |
|-------------------|------------|---------|---------|---------|
|                   | 256x       | 384x    | 512x    | 768x    |
| 32                | 8.1920     | 12.2880 | 16.3840 | 24.5760 |
| 44.1              | 11.2896    | 16.9344 | 22.5792 | 33.8688 |
| 48                | 12.2880    | 18.4320 | 24.5760 | 36.8640 |

Table 4. Single Speed (16 to 50 kHz sample rates) Common Clock Frequencies

## Serial Clock - SCLK

Pin 11, Input

*Function:*

Clocks individual bits of serial data into the SDATA pin. The required relationship between the Left/Right clock, serial clock and serial data is defined by either the Mode Control Byte in Control Port Mode or the M0 - M4 pins in Hardware Mode. The options are detailed in Figures 29-33

### Left/Right Clock - LRCK

Pin 12, Input

*Function:*

The Left/Right clock determines which channel is currently being input on the serial audio data input, SDATA. The frequency of the Left/Right clock must be at the input sample rate. Audio samples in Left/Right sample pairs will be simultaneously output from the digital-to-analog converter whereas Right/Left pairs will exhibit a one sample period difference. The required relationship between the Left/Right clock, serial clock and serial data is defined by the Mode Control Byte and the options are detailed in Figures 29-33

## Serial Audio Data - SDATA

*Pin 13, Input*

*Function:*

Serial audio data is input on this pin. The selection of the Digital Interface Format is determined by settings of the Mode select as detailed in Figures 29-33. The data is clocked into SDATA via the serial clock and the channel is determined by the Left/Right clock. The required relationship between the Left/Right clock, serial clock and serial data is defined by the Mode Control Byte and the options are detailed in Figures 29-33

## Soft Mute - MUTE

Pin 15, Input

*Function:*

The analog outputs will ramp to a muted state when enabled. The ramp requires 1152 left/right clock cycles in Single Speed, 2304 cycles in Double Speed and 4608 cycles in Quad Speed mode. The bias voltage on the outputs will be retained and MUTEC will go active at the completion of the ramp period.

The analog outputs will ramp to a normal state when this function transitions from the enabled to disabled state. The ramp requires 1152 left/right clock cycles in Single Speed, 2304 cycles in Double Speed and 4608 cycles in Quad Speed mode. The MUTE<sub>C</sub> will release immediately on setting MUTE = 1.

The converter analog outputs will mute when enabled. The bias voltage on the outputs will be retained and MUTE<sub>C</sub> will go active during the mute period.

| Mute | DESCRIPTION           |
|------|-----------------------|
| 0    | Enabled               |
| 1    | Normal operation mode |



Control Port / Hardware Mode Select - C/H

Pin 16, Input  
Function:  
Determines if the device will operate in either the Hardware Mode or Control Port Mode.

| C/H | DESCRIPTION               |
|-----|---------------------------|
| 0   | Hardware Mode Enabled     |
| 1   | Control Port Mode Enabled |

Mute Control - MUTE<sub>C</sub>

Pin 17, Output  
Function:  
The Mute Control pin goes low during power-up initialization, reset, muting, master clock to left/right clock frequency ratio is incorrect or power-down. This pin is intended to be used as a control for an external mute circuit to prevent the clicks and pops that can occur in any single supply system. Use of Mute Control is not mandatory but recommended for designs requiring the absolute minimum in extraneous clicks and pops.

Analog Ground - AGND

Pins 18 and 21, Inputs  
Function:  
Analog ground reference.

Differential Analog Outpus - AOUTR<sub>-</sub> , AOUTR<sub>+</sub> and AOUTL<sub>-</sub> , AOUTL<sub>+</sub>

Pins 19, 20, 23 and 24, Outputs  
Function:  
The full scale differential analog output level is specified in the Analog Characteristics specifications table.

Analog Power - VA

Pin 22, Input  
Function:  
Power for the analog and reference circuits. Typically 5VDC.

Common Mode Voltage - CMOUT

Pin 25, Output Function:  
Filter connection for internal bias voltage, typically 50% of VREF. Capacitors must be connected from CMOUT to analog ground, as shown in Figure 6. CMOUT has a typical source impedance of 25 kΩ and any current drawn from this pin will alter device performance

Reference Ground - FILT<sub>-</sub>

Pin 26, Input Function:  
Ground reference for the internal sampling circuits. Must be connected to analog ground.

Reference Filter - FILT<sub>+</sub>

Pin 27, Output Function:  
Positive reference for internal sampling circuits. External capacitors are required from FILT<sub>+</sub> to analog ground, as shown in Figure 6. FILT<sub>+</sub> is not intended to supply external current.

Voltage Reference Input- VREF

Pin 28, Input Function:  
Analog voltage reference. Typically 5VDC.

HARDWARE MODE

Mode Select - M0, M1, M2, M3, M4

Pins 2, 3, 4, 5 and 14, Inputs Function:  
The Mode Select pins determine the operational mode of the device as detailed in Tables 9-14. The op-tions include; Selection of the Digital Interface Format which determines the required relationship between the Left/Right clock, serial clock and serial data as detailed in Figures 29-33 Selection of the standard 15 μs/50 μs digital de-emphasis filter response, Figure 28, which requires re-configuration of the digital filter to maintain the proper filter response for 32, 44.1 or 48 kHz sample rates. Selection of the appropriate clocking mode to match the input sample rates. Access to the Direct Stream Digital Mode Access to the 8x Interpolation Input Mode

CONTROL PORT MODE

Address Bit 0 / Chip Select - AD0 / CS

Pin 2, Input Function:  
In I<sup>2</sup>C mode, AD0 is a chip address bit. CS is used to enable the control port interface in SPI mode. The device will enter the SPI mode at anytime a high to low transition is detected on this pin. Once the device has entered the SPI mode, it will remain until either the part is reset or undergoes a power-down cycle.

Address Bit 1 / Control Data Input - AD1/CDIN

Pin 3, Input Function:  
In I<sup>2</sup>C mode, AD1 is a chip address bit. CDIN is the control data input line for the control port interface in SPI mode.

Serial Control Interface Clock - SCL/CCLK

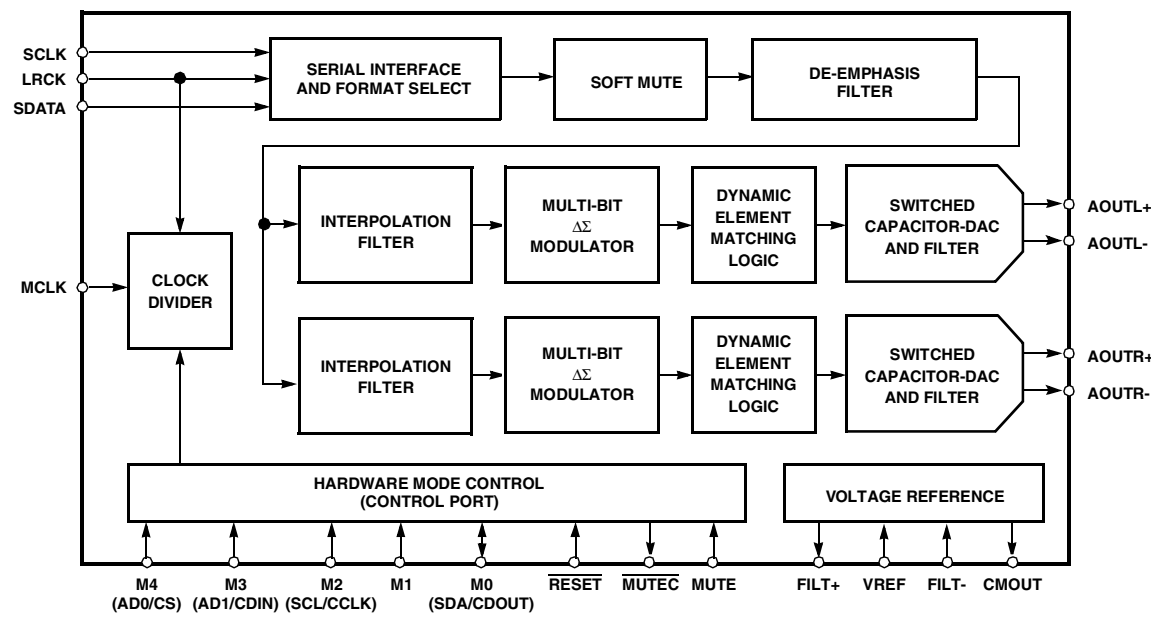
Pin 4, Input Function:  
In I<sup>2</sup>C mode, SCL clocks the serial control data into or from SDA/CDOUT.  
In SPI mode, CCLK clocks the serial data into AD1/CDIN and out of SDA/CDOUT.

Serial Control Data I/O - SDA/CDOUT

Pin 5, Input/Output Function:  
In I<sup>2</sup>C mode, SDA is a data input/output. CDOUT is the control data output for the control port interface in SPI mode.

M1 - Mode Select

Pin 14, Input Function:  
This pin is not used in Control Port Mode and must be terminated to ground.



| DSD MODE           |               |    |    |             |                   |  |  |  |  |
|--------------------|---------------|----|----|-------------|-------------------|--|--|--|--|
| Refer to PCM mode  | <u>RST</u>    | 1  | 28 | <u>VREF</u> | Refer to PCM mode |  |  |  |  |
| Refer to PCM mode  | M4(ADO/CS)    | 2  | 27 | FILT+       | Refer to PCM mode |  |  |  |  |
| Refer to PCM mode  | M3(AD1/CDIN)  | 3  | 26 | FILT-       | Refer to PCM mode |  |  |  |  |
| Refer to PCM mode  | M2(SCL/CCLK)  | 4  | 25 | CMOUT       | Refer to PCM mode |  |  |  |  |
| Refer to PCM mode  | M0(SDA/CDOUT) | 5  | 24 | AOUTL-      | Refer to PCM mode |  |  |  |  |
| Refer to PCM mode  | DGND          | 6  | 23 | AOUTL+      | Refer to PCM mode |  |  |  |  |
| Refer to PCM mode  | VD            | 7  | 22 | VA          | Refer to PCM mode |  |  |  |  |
| Refer to PCM mode  | VD            | 8  | 21 | AGND        | Refer to PCM mode |  |  |  |  |
| Refer to PCM mode  | DGND          | 9  | 20 | AOUTR+      | Refer to PCM mode |  |  |  |  |
| Master Clock       | MCLK          | 10 | 19 | AOUTR-      | Refer to PCM mode |  |  |  |  |
| DSD Serial Clock   | DSD_SCLK      | 11 | 18 | <u>AGND</u> | Refer to PCM mode |  |  |  |  |
| Master Clock Mode  | CLKMODE       | 12 | 17 |             | Refer to PCM mode |  |  |  |  |
| Left Channel Data  | DSD_L         | 13 | 16 | <u>C/H</u>  | Refer to PCM mode |  |  |  |  |
| Right Channel Data | DSD_R         | 14 | 15 | <u>MUTE</u> | Refer to PCM mode |  |  |  |  |

Master Clock - MCLK

Pin 10, Input  
Function:  
The master clock frequency must be either 4x or 6x the DSD data rate for 64x oversampled DSD data and 2x or 3x the DSD data rate for 128x oversampled DSD data, refer to Table 7.

CLKMODE

Pin 12, Input  
Function:  
This pin determines the allowable Master Clock to DSD data ratio as defined in Table 7.

|                         |      | CLKMODE |    |
|-------------------------|------|---------|----|
|                         |      | 0       | 1  |
| DSD Over-Sampling Ratio | 64x  | 4x      | 6x |
|                         | 128x | 2x      | 3x |

DSD Serial Clock -DSD\_SCLK

Pin 11, Input  
Function:  
Clocks the individual bits of the DSD audio data into the DSD\_L and DSD\_R pins.

Audio Data -DSD\_L and DSD\_R

Pins 13 and 14, Inputs  
Function:  
Direct Stream Digital audio data is clocked into DSD\_L and DSD\_R via the DSD serial clock.

Table 7. MCLK to DSD Data Rate Clock Ratios

# 11. EXPLODED VIEW AND PARTS LIST

101D

5127 Ø 3 X 8(M)

5126 Ø 3 X 8(M)

135B

130B

5129 Ø 3 X 8(M) X 2

W005

5126 Ø 3 X 8(M) X 2

5128 Ø 4 X 8(M) X 4

5405 Ø 4 (M)

L001

070G

L003

5110 Ø 3 X 8(M) X 2

5129 Ø 3 X 8(M)

PH16

100G

095G X 3

050G

001G

002G

005G X 4

006G X 4

5128 Ø 3 X 10(M) X 4

5128 Ø 3 X 8(M) X 8

095G X 4

001B

5128 Ø 3 X 8(M) X 5

100D X 3

003B

005B

008B

5129 Ø 3 X 8(M) X 2

5128 Ø 3 X 8(M) X 6

025B

030B

040B

5128 Ø 3 X 8(M) X 4

050B

060B

093G

090G

PR16

5128 Ø 3 X 6(M) X 2

095G

045G

065G

068G X 2

J608

J607

5126 Ø 3 X 8(M)

5127 Ø 3 X 8(M) X 3

5127 Ø 3 X 8(M) X 4

5128 Ø 3 X 8(M) X 2

J001

020G

W001 /N Only

TEFLON TAPE (544010001002S)

(5159) Ø 2.6 X 6(B) X 4

Mecha Loader and Mecha Traverse 014M

Super Audio CD PWB Module

110B

111B

112B

010B

013B

V X 01

PY16

5128 Ø 3 X 8(M) X 7

5129 Ø 3 X 6(M) X 4

5110 Ø 3 X 8(M) X 2

5128 Ø 4 X 8(M) X 4

5110 Ø 3 X 6(M) X 7

L012

110G X 2

PP16

L011

045G

030G X 2

001B

002G

005G X 4

006G X 4

5128 Ø 3 X 10(M) X 4

5128 Ø 3 X 8(M) X 8

095G X 3

050G

001G

002G

005G X 4

006G X 4

5128 Ø 3 X 10(M) X 4

5128 Ø 3 X 8(M) X 8

| SYMBOL | STYLE | PARTS NAME                   |
|--------|-------|------------------------------|
| 5110   |       | +B.H.M.SCREW                 |
| 5126   |       | +B.H.TAP TITE SCREW W/WASHER |
| 5127   |       | +B.H.TAP TITE SCREW(W/)      |

| MARK | MATERIAL/FINISH |
|------|-----------------|
|------|-----------------|

|      |                 |
|------|-----------------|
| MARK | MATERIAL/FINISH |
| (M)  | STEEL/COPPER    |
| (U)  | STEEL/BLACK     |
| (K)  | STEEL/NICKEL    |

| PWB NAME                | POS. NO. | VERS. COLOR | PART NO. (FOR EUR) | PART NO. (MZ) | PART NAME    | DESCRIPTION                           |
|-------------------------|----------|-------------|--------------------|---------------|--------------|---------------------------------------|
|                         | 001B     | /N1B        | 00M28AK248010      | 00M28AK248010 | FRONT PANEL  | FRONT AL PANEL SA7001 BL              |
|                         | 001B     | /N1S        | 00M28AK248210      | 00M28AK248210 | FRONT PANEL  | FRONT AL PANEL SA7001 SL              |
|                         | 003B     | /N1B        | 00M14AJ251010      | 00M14AJ251010 | BADGE        | MZ BADGE GL                           |
|                         | 003B     | /N1S        | 00M14AJ251020      | 00M14AJ251020 | BADGE        | MZ BADGE SL                           |
|                         | 005B     | /N1B        | 00M28AK251010      | 00M28AK251010 | BADGE        | BADGE SACD GL SA7001                  |
|                         | 005B     | /N1S        | 00M28AK251020      | 00M28AK251020 | BADGE        | BADGE SACD SL SA7001                  |
|                         | 008B     | /N1B        | 00M356K251010      | 00M356K251010 | BADGE        | BADGE KI GL                           |
|                         | 008B     | /N1S        | 00M356K251030      | 00M356K251030 | BADGE        | BADGE KI SL                           |
|                         | 010B     | /N1B        | 00M28AK105020      | 00M28AK105020 | CHASSIS      | CHASSIS FRONT MOLD BL                 |
|                         | 010B     | /N1S        | 00M28AK105220      | 00M28AK105220 | CHASSIS      | CHASSIS FRONT MOLD SL                 |
|                         | 025B     |             | 00M21AK158010      | 00M21AK158010 | WINDOW       | WINDOW                                |
|                         | 030B     | /N1B        | 00M28AK063020      | 00M28AK063020 | ESCUTCHEON   | ESCUTCHEON (R) BL                     |
|                         | 030B     | /N1S        | 00M28AK063220      | 00M28AK063220 | ESCUTCHEON   | ESCUTCHEON (R) SL                     |
|                         | 040B     |             | 00M28AK355010      | 00M28AK355010 | LENS         | LENS DISPLAY OFF                      |
|                         | 050B     | /N1B        | 00M28AK270010      | 00M28AK270010 | BUTTON       | BUTTON FUNCTION BL                    |
|                         | 050B     | /N1S        | 00M28AK270210      | 00M28AK270210 | BUTTON       | BUTTON FUNCTION SL                    |
|                         | 060B     | /N1B        | 00M28AK270030      | 00M28AK270030 | BUTTON       | BUTTON SKIP BL SA7001                 |
|                         | 060B     | /N1S        | 00M28AK270230      | 00M28AK270230 | BUTTON       | BUTTON SKIP SL SA7001                 |
|                         | 110B     |             | 00M376K121010      | 00M376K121010 | LINK         | LINK POWER                            |
|                         | 111B     |             | 00M28AK112010      | 00M28AK112010 | SHAFT        | SHAFT POWER                           |
|                         | 112B     | /N1B        | 00M05AK270010      | 00M05AK270010 | BUTTON       | BUTTON POWER BL                       |
|                         | 112B     | /N1S        | 00M05AK270210      | 00M05AK270210 | BUTTON       | BUTTON POWER SL                       |
|                         | 130B     |             | 00M28AK259020      | 00M28AK259020 | BUSHING      | BUSH ESCUTCHEON TRAY                  |
|                         | 135B     | /N1B        | 00M28AK063010      | 00M28AK063010 | ESCUTCHEON   | ESCUTCHEON TRAY BL                    |
|                         | 135B     | /N1S        | 00M28AK063210      | 00M28AK063210 | ESCUTCHEON   | ESCUTCHEON TRAY SL                    |
|                         | 005G     | /N1B        | 00M14AJ057110      | 00M14AJ057110 | LEG          | LEG GL (W/O RUBBER)                   |
|                         | 005G     | /N1S        | 00M14AJ057210      | 00M14AJ057210 | LEG          | LEG SL (W/O RUBBER)                   |
|                         | 006G     |             | 00M14AJ056110      | 00M14AJ056110 | BUFFER       | RUBBER CUSHION FOR LEG                |
|                         | 093G     | /N1B        | 00M284T154310      | 00M284T154310 | KNOB         | KNOB HEAD PHONE BL                    |
|                         | 093G     | /N1S        | 00M284T154350      | 00M284T154350 | KNOB         | KNOB HEAD PHONE SL                    |
|                         | 014M     |             | 00M21AK304020      | 00M21AK304020 | MECHANISM    | MECHA LOADER AND MECHA TRAVERSE       |
|                         | ▲ J001   |             | 0410500010090      | 0410500010090 | TERMINAL     | ! MC991874 AC INLET                   |
|                         | J607     |             | 646010012000S      | 646010012000S | TERMINAL     | EW-2560T-LH-W(WHITE)                  |
|                         | J608     |             | 646010011007S      | 646010011007S | TERMINAL     | EW-2560T-LH-R(RED)                    |
|                         | ▲ L001   |             | 1010100090068      | 1010100090068 | TRANSF.      | # POWER TRANSFORMER 230V FOR SA7001KI |
|                         | L003     |             | 117010005009S      | 117010005009S | FERRITE CORE | TFCK-23-11-14                         |
|                         | L011     |             | 1170100010070      | 1170100010070 | FERRITE CORE | FERRITE CORE TFCK-16813               |
|                         | L012     |             | 119010002006S      | 119010002006S | COIL         | HF70SH28X2X10                         |
|                         | PH16     |             | nsp                | nsp           | PWB ASSY     | POWER SW PWB(EXCLUDING F)ASSY         |
|                         | PP16     |             | nsp                | nsp           | PWB ASSY     | PS,DAC,AUDIO PWB(SA7001KI.)ASSY       |
|                         | PR16     | /N1B        | nsp                | nsp           | PWB ASSY     | HEADPHONE PWB(GOLD JACK)ASSY          |
|                         | PR16     | /N1S        | nsp                | nsp           | PWB ASSY     | HEADPHONE PWB(SILVER JACK)ASSY        |
|                         | PY16     |             | nsp                | nsp           | PWB ASSY     | FRONT PWB(SA7001/KI)ASSY              |
|                         | WF04     |             | nsp                | 606050002003S | FPC          | SMCD-25X120-BDX6-P1.0-S4-M UL2896     |
|                         | WF05     |             | nsp                | 606050002003S | FPC          | SMCD-25X120-BDX6-P1.0-S4-M UL2896     |
|                         | WF07     |             | nsp                | 606050001000S | FPC          | SMCD-17X120-BDX8(BL)-P1.0-S4M UL2896  |
| PACKING                 |          |             |                    |               |              |                                       |
|                         | 005T     |             | 00M28AK851310      | 00M28AK851310 | USER GUIDE   | USER GUDIE SA7001 (N)                 |
|                         | T100     |             | 3070100030048      | 3070100030048 | UNIT KIT     | REMOTE CONTROLLER RC7001SA            |
|                         | ▲ W001   |             | 0110500020010      | 0110500020010 | MAINS CORD   | # 970304/1 EUROPEAN MAINS CORDT       |
| NOT STANDARD SPARE PART |          |             |                    |               |              |                                       |
|                         | 005S     |             | nsp                | 00M28AK809010 | CUSHION      | CUSHION(L R) SA7001                   |
|                         | 010S     |             | nsp                | 00M28AK801010 | PACKING CASE | PACKING CASE SA7001                   |
|                         | 101D     | /N1B        | nsp                | 00M14AJ257020 | LID          | TOP COVER BL SLIT LESS                |
|                         | 101D     | /N1S        | nsp                | 00M14AJ257220 | LID          | TOP COVER SL SLIT LESS                |
|                         | J051     |             | nsp                | 605010002002S | CONN. CORD   | TWIN SHIELDED WIRE WITH RCA PLUGS     |
|                         | J082     |             | nsp                | 605010003005S | CONN. CORD   | 030320/1 (HK03-017-03)                |

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

## 12. ELECTRICAL PARTS LIST

### PARTS INFORMATION

#### RESISTORS

- 1) 00MGD05×××140, Carbon film fixed resistor, ±5% 1/4W  
2) 00MGD05×××160, Carbon film fixed resistor, ±5% 1/6W

① — Resistance value

Examples ;

① Resistance value

|                |                |                 |                 |
|----------------|----------------|-----------------|-----------------|
| 0.1 Ω .... 001 | 10 Ω .... 100  | 1 kΩ .... 102   | 100 kΩ .... 104 |
| 0.5 Ω .... 005 | 18 Ω .... 180  | 2.7 kΩ .... 272 | 680 kΩ .... 684 |
| 1 Ω .... 010   | 100 Ω .... 101 | 10 kΩ .... 103  | 1 MΩ .... 105   |
| 6.8 Ω .... 068 | 390 Ω .... 391 | 22 kΩ .... 223  | 4.7 MΩ .... 475 |

**Note** : Please distinguish 1/4W from 1/6W by the shape of parts used actually.

#### CAPACITORS

##### CERAMIC CAP.

- 3) 00MDD1××××370 Ceramic capacitor  
Disc type  
Temp.coeff. P350 ~ N1000, 50V
- ② — Capacity value  
③ — Tolerance

Examples ;

② Tolerance (Capacity deviation)

|                 |
|-----------------|
| ±0.25 pF .... 0 |
| ±0.5 pF .... 1  |
| ±5% .... 5      |

\* Tolerance of COMMON PARTS handled here are as follows :

|                             |
|-----------------------------|
| 0.5 pF ~ 5 pF .... ±0.25 pF |
| 6 pF ~ 10 pF .... ±0.5 pF   |
| 12 pF ~ 560 pF .... ±5%     |

③ Capacity value

|                 |                |                 |
|-----------------|----------------|-----------------|
| 0.5 pF .... 005 | 3 pF .... 030  | 100 pF .... 101 |
| 1 pF .... 010   | 10 pF .... 100 | 220 pF .... 221 |
| 1.5 pF .... 015 | 47 pF .... 470 | 560 pF .... 561 |

##### CERAMIC CAP.

- 4) 00MDK16×××300, High dielectric constant ceramic capacitor  
Disc type  
Temp.chara. 2B4, 50V
- ④ — Capacity value

Examples ;

④ Capacity value

|                 |                  |                   |
|-----------------|------------------|-------------------|
| 100 pF .... 101 | 1000 pF .... 102 | 10000 pF .... 103 |
| 470 pF .... 471 | 2200 pF .... 222 |                   |

##### ELECTROLY CAP. ( $\frac{\text{—}}{\text{—}}$ )

- 5) 00MEA×××××10, Electrolytic capacitor  
One-way lead type, Tolerance ±20%
- ⑤ — Working voltage  
⑥ — Capacity value

Examples ;

⑤ Capacity value

|                  |                 |                  |
|------------------|-----------------|------------------|
| 0.1 μF .... 104  | 4.7 μF .... 475 | 100 μF .... 107  |
| 0.33 μF .... 334 | 10 μF .... 106  | 330 μF .... 337  |
| 1 μF .... 105    | 22 μF .... 226  | 1100 μF .... 118 |
|                  |                 | 2200 μF .... 228 |

⑥ Working voltage

|               |              |
|---------------|--------------|
| 6.3V .... 006 | 25V .... 025 |
| 10V .... 010  | 35V .... 035 |
| 16V .... 016  | 50V .... 050 |

##### FILM CAP. ( $\frac{\text{—}}{\text{—}}$ )

- 6) 00MDF15×××350 Plastic film capacitor  
One-way type, Mylar ±5% 50V  
00MDF15×××310  
00MDF16×××310 Plastic film capacitor  
One-way type, Mylar ±10% 50V
- ⑦ — Capacity value

Examples ;

⑦ Capacity value

|                              |                  |
|------------------------------|------------------|
| 0.001 μF (1000 pF) ..... 102 | 0.1 μF .... 104  |
| 0.0018 μF ..... 182          | 0.56 μF .... 564 |
| 0.01 μF ..... 103            | 1 μF .... 105    |
| 0.015 μF ..... 153           |                  |

### NOTE ON SAFETY FOR FUSIBLE RESISTOR :

The suppliers and their type numbers of fusible resistors are as follows;

#### 1. KOA Corporation

| Part No. (MJI) | Type No. (KOA) | Description |
|----------------|----------------|-------------|
| 00MNH05×××140  | RF25S××××ΩJ    | (±5% 1/4W)  |
| 00MNH05×××120  | RF50S××××ΩJ    | (±5% 1/2W)  |
| 00MNH85×××110  | RF73B2A××××ΩJ  | (±5% 1/10W) |
| 00MNH95×××140  | RF73B2E××××ΩJ  | (±5% 1/4W)  |

\* Resistance value      \* Resistance value  
(0.1 Ω – 10 kΩ)

#### 2. Matsushita Electronic Components Co., Ltd

| Part No. (MJI) | Type No. (MEC) | Description |
|----------------|----------------|-------------|
| 00MNF05×××140  | ERD-2FCJ×××    | (±5% 1/4W)  |
| 00MRF05×××140  |                |             |
| 00MNF02×××140  | ERD-2FCG×××    | (±2% 1/4W)  |
| 00MRF02×××140  |                |             |

\* Resistance value      \* Resistance value

Examples ;

\* Resistance value

|                |                |                 |                 |
|----------------|----------------|-----------------|-----------------|
| 0.1 Ω .... 001 | 10 Ω .... 100  | 1 kΩ .... 102   | 100 kΩ .... 104 |
| 0.5 Ω .... 005 | 18 Ω .... 180  | 2.7 kΩ .... 272 | 680 kΩ .... 684 |
| 1 Ω .... 010   | 100 Ω .... 101 | 10 kΩ .... 103  | 1 MΩ .... 105   |
| 6.8 Ω .... 068 | 390 Ω .... 391 | 22 kΩ .... 223  | 4.7 MΩ .... 475 |

### ABBREVIATION AND MARKS

|                        |                       |
|------------------------|-----------------------|
| ANT. : ANTENNA         | BATT. : BATTERY       |
| CAP. : CAPACITOR       | CER. : CERAMIC        |
| CONN. : CONNECTING     | DIG. : DIGITAL        |
| HP : HEADPHONE         | MIC. : MICROPHONE     |
| μ-PRO : MICROPROCESSOR | REC. : RECORDING      |
| RES. : RESISTOR        | SPK : SPEAKER         |
| SW : SWITCH            | TRANSF. : TRANSFORMER |
| TRIM. : TRIMMING       | TRS. : TRANSISTOR     |
| VAR. : VARIABLE        | X'TAL : CRYSTAL       |

### NOTE ON FUSE :

Regarding to all parts of parts code 00MFS20xxx2xx, replace only with Wickmann-Werke GmbH, Type 372 non glass type fuse.

### NOTE ON SAFETY :

Symbol  Fire or electrical shock hazard. Only original parts should be used to replaced any part marked with symbol . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

### 安全上の注意 :

 がついている部品は、安全上重要な部品です。必ず指定されている部品番号の部品を使用して下さい。

| PWB NAME | POS. NO. | VERS. COLOR | PART NO. (FOR EUR) | PART NO. (MZ) | PART NAME                                              | DESCRIPTION                      |
|----------|----------|-------------|--------------------|---------------|--------------------------------------------------------|----------------------------------|
|          |          |             |                    |               | <b>POWER SW PWB PH16 (632010008002M)</b>               |                                  |
| PH16     | ▲ FH01   |             | 652050003405S      | 652050003405S | FUSE                                                   | ! C1 372/1.25A                   |
| PH16     | ▲ GH01   |             | 1330500010070      | 1330500010070 | FILM CAP.                                              | ! CF-MH22E103M-C                 |
| PH16     | RH02     |             | nsp                | 00D2472005903 | CHIP RES.                                              | RM73B--101JT +1608               |
| PH16     | ▲ SH01   |             | 661050003003S      | 661050003003S | SW                                                     | ! ESB92S94B                      |
|          |          |             |                    |               | <b>POWER SUPPLY,DAC,AUDIO PWB PP16 (632010003007M)</b> |                                  |
| PP16     | C601     |             | 133050048402S      | 133050048402S | FILM CAP.                                              | DTG-100VDC-182J-TP               |
| PP16     | C602     |             | 1330500434070      | 1330500434070 | FILM CAP.                                              | DTG-100VDC-331J-TP               |
| PP16     | C604     |             | 133050045403S      | 133050045403S | FILM CAP.                                              | DAMG-630VDC-121J-TP              |
| PP16     | C605     |             | 134050026405S      | 134050026405S | ELECT. CAP.                                            | ROA-16V221MH4#-T2                |
| PP16     | C606     |             | 134050026405S      | 134050026405S | ELECT. CAP.                                            | ROA-16V221MH4#-T2                |
| PP16     | C609     |             | 133050047409S      | 133050047409S | FILM CAP.                                              | DTG-100VDC-122J-TP               |
| PP16     | C610     |             | 133050046406S      | 133050046406S | FILM CAP.                                              | DTG-100VDC-561J-TP               |
| PP16     | C612     |             | 1330500444000      | 1330500444000 | FILM CAP.                                              | DTG-100VDC-681J-TP               |
| PP16     | C613     |             | 134050026405S      | 134050026405S | ELECT. CAP.                                            | ROA-16V221MH4#-T2                |
| PP16     | C614     |             | 134050026405S      | 134050026405S | ELECT. CAP.                                            | ROA-16V221MH4#-T2                |
| PP16     | C616     |             | 134050028401S      | 134050028401S | ELECT. CAP.                                            | ROS-16V221MH5#PE-T2              |
| PP16     | C617     |             | 134050028401S      | 134050028401S | ELECT. CAP.                                            | ROS-16V221MH5#PE-T2              |
| PP16     | C651     |             | 133050048402S      | 133050048402S | FILM CAP.                                              | DTG-100VDC-182J-TP               |
| PP16     | C652     |             | 1330500434070      | 1330500434070 | FILM CAP.                                              | DTG-100VDC-331J-TP               |
| PP16     | C654     |             | 133050045403S      | 133050045403S | FILM CAP.                                              | DAMG-630VDC-121J-TP              |
| PP16     | C659     |             | 133050047409S      | 133050047409S | FILM CAP.                                              | DTG-100VDC-122J-TP               |
| PP16     | C660     |             | 133050046406S      | 133050046406S | FILM CAP.                                              | DTG-100VDC-561J-TP               |
| PP16     | C662     |             | 1330500444000      | 1330500444000 | FILM CAP.                                              | DTG-100VDC-681J-TP               |
| PP16     | C666     |             | 134050028401S      | 134050028401S | ELECT. CAP.                                            | ROS-16V221MH5#PE-T2              |
| PP16     | C667     |             | 134050028401S      | 134050028401S | ELECT. CAP.                                            | ROS-16V221MH5#PE-T2              |
| PP16     | ▲ C801   |             | 134010166008S      | 134010166008S | ELECT CAP.                                             | ! RA2-16V682MK8#8-S1             |
| PP16     | C802     |             | 1340100245000      | 1340100245000 | ELECT CAP.                                             | RA2-10V102MH4#8-T2               |
| PP16     | ▲ C804   |             | 134010163009S      | 134010163009S | ELECT CAP.                                             | ! RA2-16V332MJ6#8-S1             |
| PP16     | ▲ C805   |             | 134010166008S      | 134010166008S | ELECT CAP.                                             | ! RA2-16V682MK8#8-S1             |
| PP16     | C806     |             | 1340100245000      | 1340100245000 | ELECT CAP.                                             | RA2-10V102MH4#8-T2               |
| PP16     | C809     |             | 1340100245000      | 1340100245000 | ELECT CAP.                                             | RA2-10V102MH4#8-T2               |
| PP16     | ▲ C821   |             | 134010165005S      | 134010165005S | ELECT CAP.                                             | ! RA2-25V472MK8#8-S1             |
| PP16     | C822     |             | 1340100465000      | 1340100465000 | ELECT CAP.                                             | RA2-25V221MG3#8-T2               |
| PP16     | C823     |             | 134010162006S      | 134010162006S | ELECT CAP.                                             | RA2-16V222M16#8-S1               |
| PP16     | ▲ C851   |             | 134050031001S      | 134050031001S | ELECT. CAP.                                            | ! 3300U 25V (ALP) (LF)-BLOCK CAP |
| PP16     | ▲ C852   |             | 134050031001S      | 134050031001S | ELECT. CAP.                                            | ! 3300U 25V (ALP) (LF)-BLOCK CAP |
| PP16     | C855     |             | 134050027408S      | 134050027408S | ELECT. CAP.                                            | ROA-25V100ME3#-T2                |
| PP16     | C856     |             | 134050027408S      | 134050027408S | ELECT. CAP.                                            | ROA-25V100ME3#-T2                |
| PP16     | C857     |             | 134050029008S      | 134050029008S | ELECT. CAP.                                            | ROS-16V471MI6#PE-S13             |
| PP16     | C858     |             | 134050029008S      | 134050029008S | ELECT. CAP.                                            | ROS-16V471MI6#PE-S13             |
| PP16     | CD21     |             | 1340100705030      | 1340100705030 | ELECT CAP.                                             | RA2-50V100ME3E#8-T2              |
| PP16     | CD22     |             | 1340100455070      | 1340100455070 | ELECT CAP.                                             | RA2-25V101MF3#8-T2               |
| PP16     | CD26     |             | 1340100465000      | 1340100465000 | ELECT CAP.                                             | RA2-25V221MG3#8-T2               |
| PP16     | CD61     |             | 1340100455070      | 1340100455070 | ELECT CAP.                                             | RA2-25V101MF3#8-T2               |
| PP16     | CD64     |             | 1340100455070      | 1340100455070 | ELECT CAP.                                             | RA2-25V101MF3#8-T2               |
| PP16     | CD65     |             | 134050027408S      | 134050027408S | ELECT. CAP.                                            | ROA-25V100ME3#-T2                |
| PP16     | CD67     |             | 134050025402S      | 134050025402S | ELECT. CAP.                                            | ROA-10V101MG3#-T2                |
| PP16     | CD70     |             | 1330100135070      | 1330100135070 | FILM CAP.                                              | APSV 0100 J 102 0000 0200        |
| PP16     | CF52     |             | 1330100095080      | 1330100095080 | FILM CAP.                                              | APSV 0100 J 471 0000 0200        |
| PP16     | CF54     |             | 1340100705030      | 1340100705030 | ELECT CAP.                                             | RA2-50V100ME3E#8-T2              |
| PP16     | CN01     |             | 134010161003S      | 134010161003S | ELECT CAP.                                             | RA2-25V102MI5#8-S1               |
| PP16     | CN02     |             | 1340100665040      | 1340100665040 | ELECT CAP.                                             | RA2-50V010ME3E#8-T2              |
| PP16     | CN03     |             | 1340100695030      | 1340100695030 | ELECT CAP.                                             | RA2-50V4R7ME3E#8-T2              |
| PP16     | CN04     |             | 133050049405S      | 133050049405S | FILM CAP.                                              | MTFVA0050J10400000200            |
| PP16     | CT05     |             | 134050030404S      | 134050030404S | ELECT CAP.                                             | ROS-25V101MH4#PE-T2              |
| PP16     | ▲ CY51   |             | 1340100755080      | 1340100755080 | ELECT CAP.                                             | ! RA2-50V221MH4#8-T2             |
| PP16     | ▲ CY52   |             | 1340100755080      | 1340100755080 | ELECT CAP.                                             | ! RA2-50V221MH4#8-T2             |
| PP16     | CY63     |             | 1340100745050      | 1340100745050 | ELECT CAP.                                             | RA2-50V101MG3#8-T2               |
| PP16     | D601     |             | nsp                | 00D2760401905 | DIODE                                                  | 1SS133T77                        |
| PP16     | D602     |             | nsp                | 00D2760401905 | DIODE                                                  | 1SS133T77                        |
| PP16     | D603     |             | nsp                | 00D2760401905 | DIODE                                                  | 1SS133T77                        |
| PP16     | D604     |             | nsp                | 00D2760401905 | DIODE                                                  | 1SS133T77                        |
| PP16     | D605     |             | nsp                | 00D2760401905 | DIODE                                                  | 1SS133T77                        |
| PP16     | D606     |             | nsp                | 00D2760401905 | DIODE                                                  | 1SS133T77                        |
| PP16     | D607     |             | nsp                | 00D2760401905 | DIODE                                                  | 1SS133T77                        |
| PP16     | D608     |             | nsp                | 00D2760401905 | DIODE                                                  | 1SS133T77                        |

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

| PWB NAME | POS. NO. | VERS. COLOR | PART NO. (FOR EUR) | PART NO. (MZ) | PART NAME  | DESCRIPTION                  |
|----------|----------|-------------|--------------------|---------------|------------|------------------------------|
| PP16     | D609     |             | nsp                | 00D2760401905 | DIODE      | 1SS133T77                    |
| PP16     | D610     |             | nsp                | 00D2760401905 | DIODE      | 1SS133T77                    |
| PP16     | D611     |             | nsp                | 00D2760401905 | DIODE      | 1SS133T77                    |
| PP16     | D612     |             | nsp                | 00D2760401905 | DIODE      | 1SS133T77                    |
| PP16     | D613     |             | nsp                | 00D2760401905 | DIODE      | 1SS133T77                    |
| PP16     | D651     |             | nsp                | 00D2760401905 | DIODE      | 1SS133T77                    |
| PP16     | D652     |             | nsp                | 00D2760401905 | DIODE      | 1SS133T77                    |
| PP16     | D653     |             | nsp                | 00D2760401905 | DIODE      | 1SS133T77                    |
| PP16     | D654     |             | nsp                | 00D2760401905 | DIODE      | 1SS133T77                    |
| PP16     | D655     |             | nsp                | 00D2760401905 | DIODE      | 1SS133T77                    |
| PP16     | D656     |             | nsp                | 00D2760401905 | DIODE      | 1SS133T77                    |
| PP16     | D657     |             | nsp                | 00D2760401905 | DIODE      | 1SS133T77                    |
| PP16     | D658     |             | nsp                | 00D2760401905 | DIODE      | 1SS133T77                    |
| PP16     | D659     |             | nsp                | 00D2760401905 | DIODE      | 1SS133T77                    |
| PP16     | D660     |             | nsp                | 00D2760401905 | DIODE      | 1SS133T77                    |
| PP16     | D661     |             | nsp                | 00D2760401905 | DIODE      | 1SS133T77                    |
| PP16     | D662     |             | nsp                | 00D2760401905 | DIODE      | 1SS133T77                    |
| PP16     | D663     |             | nsp                | 00D2760401905 | DIODE      | 1SS133T77                    |
| PP16     | ▲ D801   |             | 2040500013050      | 2040500013050 | DIODE      | ! SHOTTKY 11EQS10 1A 100V    |
| PP16     | ▲ D802   |             | 2040500013050      | 2040500013050 | DIODE      | ! SHOTTKY 11EQS10 1A 100V    |
| PP16     | ▲ D803   |             | 2040500013050      | 2040500013050 | DIODE      | ! SHOTTKY 11EQS10 1A 100V    |
| PP16     | ▲ D804   |             | 2040500013050      | 2040500013050 | DIODE      | ! SHOTTKY 11EQS10 1A 100V    |
| PP16     | ▲ D805   |             | 2030500013020      | 2030500013020 | DIODE      | ! 1D3 1A/200V                |
| PP16     | ▲ D806   |             | 2030500013020      | 2030500013020 | DIODE      | ! 1D3 1A/200V                |
| PP16     | ▲ D807   |             | 2030500013020      | 2030500013020 | DIODE      | ! 1D3 1A/200V                |
| PP16     | ▲ D808   |             | 2030500013020      | 2030500013020 | DIODE      | ! 1D3 1A/200V                |
| PP16     | ▲ D809   |             | 2030500013020      | 2030500013020 | DIODE      | ! 1D3 1A/200V                |
| PP16     | ▲ D821   |             | 2030500013020      | 2030500013020 | DIODE      | ! 1D3 1A/200V                |
| PP16     | ▲ D822   |             | 2030500013020      | 2030500013020 | DIODE      | ! 1D3 1A/200V                |
| PP16     | ▲ D851   |             | 2030500013020      | 2030500013020 | DIODE      | ! 1D3 1A/200V                |
| PP16     | ▲ D852   |             | 2030500013020      | 2030500013020 | DIODE      | ! 1D3 1A/200V                |
| PP16     | ▲ D853   |             | 2030500013020      | 2030500013020 | DIODE      | ! 1D3 1A/200V                |
| PP16     | ▲ D854   |             | 2030500013020      | 2030500013020 | DIODE      | ! 1D3 1A/200V                |
| PP16     | D856     |             | nsp                | 00D2760407912 | DIODE      | HZ6A-1LTD                    |
| PP16     | D857     |             | nsp                | 00D2760407912 | DIODE      | HZ6A-1LTD                    |
| PP16     | D858     |             | nsp                | 00D2760401905 | DIODE      | 1SS133T77                    |
| PP16     | D859     |             | nsp                | 00D2760401905 | DIODE      | 1SS133T77                    |
| PP16     | DF51     |             | nsp                | 00D2760401905 | DIODE      | 1SS133T77                    |
| PP16     | ▲ DN01   |             | 2030500013020      | 2030500013020 | DIODE      | ! 1D3 1A/200V                |
| PP16     | ▲ DN02   |             | 2030500013020      | 2030500013020 | DIODE      | ! 1D3 1A/200V                |
| PP16     | DN05     |             | 2030500013020      | 2030500013020 | DIODE      | 1D3 1A/200V                  |
| PP16     | DN06     |             | nsp                | 00D2760647918 | DIODE      | MTZJ47 T77                   |
| PP16     | DN07     |             | nsp                | 00D2760401905 | DIODE      | 1SS133T77                    |
| PP16     | DN11     |             | nsp                | 00D2760401905 | DIODE      | 1SS133T77                    |
| PP16     | DN12     |             | nsp                | 00D2760401905 | DIODE      | 1SS133T77                    |
| PP16     | DY11     |             | nsp                | 00D2760647918 | DIODE      | MTZJ47 T77                   |
| PP16     | ▲ DY51   |             | 2030500013020      | 2030500013020 | DIODE      | ! 1D3 1A/200V                |
| PP16     | ▲ DY52   |             | 2030500013020      | 2030500013020 | DIODE      | ! 1D3 1A/200V                |
| PP16     | DY61     |             | 203050002305S      | 203050002305S | DIODE      | MTZ J27D                     |
| PP16     | DY65     |             | 203050002305S      | 203050002305S | DIODE      | MTZ J27D                     |
| PP16     | ▲ F801   |             | 652050003405S      | 652050003405S | FUSE       | ! C1 372/1.25A               |
| PP16     | ▲ F821   |             | 652050002402S      | 652050002402S | FUSE       | ! C1 372/1A                  |
| PP16     | ▲ F822   |             | 652050002402S      | 652050002402S | FUSE       | ! C1 372/1A                  |
| PP16     | ▲ F851   |             | 652050001409S      | 652050001409S | FUSE       | ! C1 372/0.8A                |
| PP16     | ▲ F852   |             | 652050001409S      | 652050001409S | FUSE       | ! C1 372/0.8A                |
| PP16     | JF51     |             | 0460100040050      | 0460100040050 | TERMINAL   | YKC21-3046                   |
| PP16     | JT02     |             | 646010015009S      | 646010015009S | TERMINAL   | YKC21-3394:1L1 FG AU ID      |
| PP16     | JT03     |             | 643010006006S      | 643010006006S | OPT. CONN. | TOTX179L TOSLINK TRANSCEIVER |
| PP16     | L801     |             | 1190100014090      | 1190100014090 | COIL       | BL02RN2R1N1A FERRITE BEAD    |
| PP16     | L802     |             | 1190100014090      | 1190100014090 | COIL       | BL02RN2R1N1A FERRITE BEAD    |
| PP16     | L803     |             | 1190100014090      | 1190100014090 | COIL       | BL02RN2R1N1A FERRITE BEAD    |
| PP16     | LD01     |             | 1190100014090      | 1190100014090 | COIL       | BL02RN2R1N1A FERRITE BEAD    |
| PP16     | LT01     |             | 104010001001S      | 104010001001S | TRANSF.    | TPS247MN-0386AN PULSE TRNSF. |
| PP16     | LT02     |             | 1190100014090      | 1190100014090 | COIL       | BL02RN2R1N1A FERRITE BEAD    |
| PP16     | Q601     |             | 222010001404S      | 222010001404S | FET        | 2SK369 BL VGDS-40V PD0.4W    |
| PP16     | Q602     |             | 222010001404S      | 222010001404S | FET        | 2SK369 BL VGDS-40V PD0.4W    |
| PP16     | Q603     |             | 213050005400S      | 213050005400S | TRS.       | 2SC2240N-GR_BL(932202943676) |

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| PWB NAME | POS. NO. | VERS. COLOR | PART NO. (FOR EUR) | PART NO. (MZ) | PART NAME | DESCRIPTION                  |
|----------|----------|-------------|--------------------|---------------|-----------|------------------------------|
| PP16     | Q604     |             | 211050004401S      | 211050004401S | TRS.      | 2SA970 (GR) OR (BL)          |
| PP16     | Q605     |             | 211050004401S      | 211050004401S | TRS.      | 2SA970 (GR) OR (BL)          |
| PP16     | Q606     |             | 213050005400S      | 213050005400S | TRS.      | 2SC2240N-GR_BL(932202943676) |
| PP16     | Q607     |             | 222050001402S      | 222050001402S | FET       | 2SK170-V (TPE2)              |
| PP16     | Q608     |             | 221050001409S      | 221050001409S | FET       | 2SJ74-V (TPE2)               |
| PP16     | Q609     |             | 222010001404S      | 222010001404S | FET       | 2SK369 BL VGDS-40V PD0.4W    |
| PP16     | Q610     |             | 222010001404S      | 222010001404S | FET       | 2SK369 BL VGDS-40V PD0.4W    |
| PP16     | Q611     |             | 213050005400S      | 213050005400S | TRS.      | 2SC2240N-GR_BL(932202943676) |
| PP16     | Q612     |             | 211050004401S      | 211050004401S | TRS.      | 2SA970 (GR) OR (BL)          |
| PP16     | Q613     |             | 211050004401S      | 211050004401S | TRS.      | 2SA970 (GR) OR (BL)          |
| PP16     | Q614     |             | 213050005400S      | 213050005400S | TRS.      | 2SC2240N-GR_BL(932202943676) |
| PP16     | Q615     |             | 222050001402S      | 222050001402S | FET       | 2SK170-V (TPE2)              |
| PP16     | Q616     |             | 221050001409S      | 221050001409S | FET       | 2SJ74-V (TPE2)               |
| PP16     | Q617     |             | 211050004401S      | 211050004401S | TRS.      | 2SA970 (GR) OR (BL)          |
| PP16     | Q618     |             | 211050004401S      | 211050004401S | TRS.      | 2SA970 (GR) OR (BL)          |
| PP16     | Q619     |             | 211050004401S      | 211050004401S | TRS.      | 2SA970 (GR) OR (BL)          |
| PP16     | Q620     |             | 213050005400S      | 213050005400S | TRS.      | 2SC2240N-GR_BL(932202943676) |
| PP16     | Q621     |             | 213050005400S      | 213050005400S | TRS.      | 2SC2240N-GR_BL(932202943676) |
| PP16     | Q622     |             | 213050005400S      | 213050005400S | TRS.      | 2SC2240N-GR_BL(932202943676) |
| PP16     | Q623     |             | 213050005400S      | 213050005400S | TRS.      | 2SC2240N-GR_BL(932202943676) |
| PP16     | Q624     |             | 211050004401S      | 211050004401S | TRS.      | 2SA970 (GR) OR (BL)          |
| PP16     | Q651     |             | 222010001404S      | 222010001404S | FET       | 2SK369 BL VGDS-40V PD0.4W    |
| PP16     | Q652     |             | 222010001404S      | 222010001404S | FET       | 2SK369 BL VGDS-40V PD0.4W    |
| PP16     | Q653     |             | 213050005400S      | 213050005400S | TRS.      | 2SC2240N-GR_BL(932202943676) |
| PP16     | Q654     |             | 211050004401S      | 211050004401S | TRS.      | 2SA970 (GR) OR (BL)          |
| PP16     | Q655     |             | 211050004401S      | 211050004401S | TRS.      | 2SA970 (GR) OR (BL)          |
| PP16     | Q656     |             | 213050005400S      | 213050005400S | TRS.      | 2SC2240N-GR_BL(932202943676) |
| PP16     | Q657     |             | 222050001402S      | 222050001402S | FET       | 2SK170-V (TPE2)              |
| PP16     | Q658     |             | 221050001409S      | 221050001409S | FET       | 2SJ74-V (TPE2)               |
| PP16     | Q659     |             | 222010001404S      | 222010001404S | FET       | 2SK369 BL VGDS-40V PD0.4W    |
| PP16     | Q660     |             | 222010001404S      | 222010001404S | FET       | 2SK369 BL VGDS-40V PD0.4W    |
| PP16     | Q661     |             | 213050005400S      | 213050005400S | TRS.      | 2SC2240N-GR_BL(932202943676) |
| PP16     | Q662     |             | 211050004401S      | 211050004401S | TRS.      | 2SA970 (GR) OR (BL)          |
| PP16     | Q663     |             | 211050004401S      | 211050004401S | TRS.      | 2SA970 (GR) OR (BL)          |
| PP16     | Q664     |             | 213050005400S      | 213050005400S | TRS.      | 2SC2240N-GR_BL(932202943676) |
| PP16     | Q665     |             | 222050001402S      | 222050001402S | FET       | 2SK170-V (TPE2)              |
| PP16     | Q666     |             | 221050001409S      | 221050001409S | FET       | 2SJ74-V (TPE2)               |
| PP16     | Q667     |             | 211050004401S      | 211050004401S | TRS.      | 2SA970 (GR) OR (BL)          |
| PP16     | Q668     |             | 211050004401S      | 211050004401S | TRS.      | 2SA970 (GR) OR (BL)          |
| PP16     | Q669     |             | 211050004401S      | 211050004401S | TRS.      | 2SA970 (GR) OR (BL)          |
| PP16     | Q670     |             | 213050005400S      | 213050005400S | TRS.      | 2SC2240N-GR_BL(932202943676) |
| PP16     | Q671     |             | 213050005400S      | 213050005400S | TRS.      | 2SC2240N-GR_BL(932202943676) |
| PP16     | Q672     |             | 213050005400S      | 213050005400S | TRS.      | 2SC2240N-GR_BL(932202943676) |
| PP16     | Q673     |             | 213050005400S      | 213050005400S | TRS.      | 2SC2240N-GR_BL(932202943676) |
| PP16     | Q674     |             | 211050004401S      | 211050004401S | TRS.      | 2SA970 (GR) OR (BL)          |
| PP16     | ▲ Q801   |             | 00D2631092003      | 00D2631092003 | IC        | ! BA05T                      |
| PP16     | ▲ Q802   |             | 00D2631092003      | 00D2631092003 | IC        | ! BA05T                      |
| PP16     | ▲ Q803   |             | 00D2631092003      | 00D2631092003 | IC        | ! BA05T                      |
| PP16     | ▲ Q821   |             | 231010003701S      | 231010003701S | IC        | ! BA12T                      |
| PP16     | ▲ Q822   |             | 231010004704S      | 231010004704S | IC        | ! NJM7808FA-#ZZS             |
| PP16     | Q851     |             | 222050002405S      | 222050002405S | FET       | 2SK246-GR                    |
| PP16     | ▲ Q852   |             | 2140500010050      | 2140500010050 | TRS.      | ! 2SD1415A                   |
| PP16     | Q853     |             | 213050005400S      | 213050005400S | TRS.      | 2SC2240N-GR_BL(932202943676) |
| PP16     | Q855     |             | 222050002405S      | 222050002405S | FET       | 2SK246-GR                    |
| PP16     | Q856     |             | 2120500010090      | 2120500010090 | TRS.      | 2SB1020A                     |
| PP16     | Q857     |             | 211050004401S      | 211050004401S | TRS.      | 2SA970 (GR) OR (BL)          |
| PP16     | ▲ QD01   |             | 00D2631048002      | 00D2631048002 | IC        | ! BA033T                     |
| PP16     | QD21     |             | 00D2690223907      | 00D2690223907 | TRS.      | KRC111S-RTK +2125            |
| PP16     | QD22     |             | 00D2690223907      | 00D2690223907 | TRS.      | KRC111S-RTK +2125            |
| PP16     | QD23     |             | 211050004401S      | 211050004401S | TRS.      | 2SA970 (GR) OR (BL)          |
| PP16     | QD24     |             | 00D2730253918      | 00D2730253918 | TRS.      | 2SC2878(A/B)TPE2             |
| PP16     | QD61     |             | 235010005501S      | 235010005501S | IC        | CS4397-KSZR                  |
| PP16     | QF51     |             | 2110500010060      | 2110500010060 | TRS.      | KTA1267 RANK=Y               |
| PP16     | QF52     |             | 2130500010020      | 2130500010020 | TRS.      | KTC3199 RANK=Y               |
| PP16     | QN01     |             | 2130500010020      | 2130500010020 | TRS.      | KTC3199 RANK=Y               |
| PP16     | QN02     |             | 00D2690223907      | 00D2690223907 | TRS.      | KRC111S-RTK +2125            |
| PP16     | QN04     |             | 2110500010060      | 2110500010060 | TRS.      | KTA1267 RANK=Y               |

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| PWB NAME | POS. NO. | VERS. COLOR | PART NO. (FOR EUR) | PART NO. (MZ) | PART NAME | DESCRIPTION       |
|----------|----------|-------------|--------------------|---------------|-----------|-------------------|
| PP16     | QN06     |             | 2130500010020      | 2130500010020 | TRS.      | KTC3199 RANK=Y    |
| PP16     | QN61     |             | 00D2730253918      | 00D2730253918 | TRS.      | 2SC2878(A/B)TPE2  |
| PP16     | QN62     |             | 00D2730253918      | 00D2730253918 | TRS.      | 2SC2878(A/B)TPE2  |
| PP16     | QN63     |             | 00D2730253918      | 00D2730253918 | TRS.      | 2SC2878(A/B)TPE2  |
| PP16     | QN64     |             | 00D2730253918      | 00D2730253918 | TRS.      | 2SC2878(A/B)TPE2  |
| PP16     | QN66     |             | 00D2690223907      | 00D2690223907 | TRS.      | KRC111S-RTK +2125 |
| PP16     | QT01     |             | 234010002004S      | 234010002004S | IC        | MC74HCU04AN       |
| PP16     | QY61     |             | 2110500010060      | 2110500010060 | TRS.      | KTA1267 RANK=Y    |
| PP16     | QY62     |             | 2130500010020      | 2130500010020 | TRS.      | KTC3199 RANK=Y    |
| PP16     | QY63     |             | 00D2690223907      | 00D2690223907 | TRS.      | KRC111S-RTK +2125 |
| PP16     | R103     |             | nsp                | 00D2412396928 | RES.      | RD14B2E101JT(5)   |
| PP16     | R352     |             | nsp                | 00D2412396928 | RES.      | RD14B2E101JT(5)   |
| PP16     | R601     |             | nsp                | 00D2412398971 | RES.      | RD14B2E122JT(5)   |
| PP16     | R602     |             | nsp                | 00D2412398971 | RES.      | RD14B2E122JT(5)   |
| PP16     | R603     |             | nsp                | 00D2412397998 | RES.      | RD14B2E561JT(5)   |
| PP16     | R604     |             | nsp                | 00D2412399912 | RES.      | RD14B2E182JT(5)   |
| PP16     | R605     |             | nsp                | 00D2412399996 | RES.      | RD14B2E392JT(5)   |
| PP16     | R606     |             | nsp                | 00D2412396944 | RES.      | RD14B2E121JT(5)   |
| PP16     | R607     |             | nsp                | 00D2412396944 | RES.      | RD14B2E121JT(5)   |
| PP16     | R608     |             | nsp                | 00D2412395987 | RES.      | RD14B2E680JT(5)   |
| PP16     | R609     |             | nsp                | 00D2412397998 | RES.      | RD14B2E561JT(5)   |
| PP16     | R610     |             | nsp                | 00D2412402919 | RES.      | RD14B2E333JT(5)   |
| PP16     | R611     |             | nsp                | 00D2412396928 | RES.      | RD14B2E101JT(5)   |
| PP16     | R612     |             | nsp                | 00D2412397998 | RES.      | RD14B2E561JT(5)   |
| PP16     | R613     |             | nsp                | 00D2412395903 | RES.      | RD14B2E330JT(5)   |
| PP16     | R614     |             | nsp                | 00D2412395903 | RES.      | RD14B2E330JT(5)   |
| PP16     | R615     |             | nsp                | 00D2412400924 | RES.      | RD14B2E512JT(5)   |
| PP16     | R622     |             | nsp                | 00D2412399938 | RES.      | RD14B2E222JT(5)   |
| PP16     | R623     |             | nsp                | 00D2412399970 | RES.      | RD14B2E332JT(5)   |
| PP16     | R624     |             | nsp                | 00D2412396944 | RES.      | RD14B2E121JT(5)   |
| PP16     | R625     |             | nsp                | 00D2412396944 | RES.      | RD14B2E121JT(5)   |
| PP16     | R626     |             | nsp                | 00D2412395987 | RES.      | RD14B2E680JT(5)   |
| PP16     | R627     |             | nsp                | 00D2412397927 | RES.      | RD14B2E271JT(5)   |
| PP16     | R628     |             | nsp                | 00D2412397998 | RES.      | RD14B2E561JT(5)   |
| PP16     | R629     |             | nsp                | 00D2412402919 | RES.      | RD14B2E333JT(5)   |
| PP16     | R630     |             | nsp                | 00D2412395945 | RES.      | RD14B2E470JT(5)   |
| PP16     | R631     |             | nsp                | 00D2412397998 | RES.      | RD14B2E561JT(5)   |
| PP16     | R632     |             | nsp                | 00D2412396928 | RES.      | RD14B2E101JT(5)   |
| PP16     | R633     |             | nsp                | 00D2412396928 | RES.      | RD14B2E101JT(5)   |
| PP16     | R634     |             | nsp                | 00D2412397927 | RES.      | RD14B2E271JT(5)   |
| PP16     | R635     |             | nsp                | 00D2412397927 | RES.      | RD14B2E271JT(5)   |
| PP16     | R636     |             | nsp                | 00D2412397927 | RES.      | RD14B2E271JT(5)   |
| PP16     | R637     |             | nsp                | 00D2412397927 | RES.      | RD14B2E271JT(5)   |
| PP16     | R638     |             | nsp                | 00D2412395945 | RES.      | RD14B2E470JT(5)   |
| PP16     | R639     |             | nsp                | 00D2412395903 | RES.      | RD14B2E330JT(5)   |
| PP16     | R640     |             | nsp                | 00D2412395903 | RES.      | RD14B2E330JT(5)   |
| PP16     | R641     |             | nsp                | 00D2412396944 | RES.      | RD14B2E121JT(5)   |
| PP16     | R643     |             | nsp                | 00D2412402951 | RES.      | RD14B2E473JT(5)   |
| PP16     | R644     |             | nsp                | 00D2412395990 | RES.      | RD14B2E750JT(5)   |
| PP16     | R645     |             | nsp                | 00D2412395990 | RES.      | RD14B2E750JT(5)   |
| PP16     | R647     |             | nsp                | 00D2412396928 | RES.      | RD14B2E101JT(5)   |
| PP16     | R651     |             | nsp                | 00D2412398971 | RES.      | RD14B2E122JT(5)   |
| PP16     | R652     |             | nsp                | 00D2412398971 | RES.      | RD14B2E122JT(5)   |
| PP16     | R653     |             | nsp                | 00D2412397998 | RES.      | RD14B2E561JT(5)   |
| PP16     | R654     |             | nsp                | 00D2412399912 | RES.      | RD14B2E182JT(5)   |
| PP16     | R655     |             | nsp                | 00D2412399996 | RES.      | RD14B2E392JT(5)   |
| PP16     | R656     |             | nsp                | 00D2412396944 | RES.      | RD14B2E121JT(5)   |
| PP16     | R657     |             | nsp                | 00D2412396944 | RES.      | RD14B2E121JT(5)   |
| PP16     | R658     |             | nsp                | 00D2412395987 | RES.      | RD14B2E680JT(5)   |
| PP16     | R659     |             | nsp                | 00D2412397998 | RES.      | RD14B2E561JT(5)   |
| PP16     | R660     |             | nsp                | 00D2412402919 | RES.      | RD14B2E333JT(5)   |
| PP16     | R661     |             | nsp                | 00D2412396928 | RES.      | RD14B2E101JT(5)   |
| PP16     | R662     |             | nsp                | 00D2412397998 | RES.      | RD14B2E561JT(5)   |
| PP16     | R663     |             | nsp                | 00D2412395903 | RES.      | RD14B2E330JT(5)   |
| PP16     | R664     |             | nsp                | 00D2412395903 | RES.      | RD14B2E330JT(5)   |
| PP16     | R665     |             | nsp                | 00D2412400924 | RES.      | RD14B2E512JT(5)   |
| PP16     | R672     |             | nsp                | 00D2412399938 | RES.      | RD14B2E222JT(5)   |

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

| PWB NAME | POS. NO. | VERS. COLOR | PART NO. (FOR EUR) | PART NO. (MZ) | PART NAME | DESCRIPTION         |
|----------|----------|-------------|--------------------|---------------|-----------|---------------------|
| PP16     | R673     |             | nsp                | 00D2412399970 | RES.      | RD14B2E332JT(5)     |
| PP16     | R674     |             | nsp                | 00D2412396944 | RES.      | RD14B2E121JT(5)     |
| PP16     | R675     |             | nsp                | 00D2412396944 | RES.      | RD14B2E121JT(5)     |
| PP16     | R676     |             | nsp                | 00D2412395987 | RES.      | RD14B2E680JT(5)     |
| PP16     | R677     |             | nsp                | 00D2412397927 | RES.      | RD14B2E271JT(5)     |
| PP16     | R678     |             | nsp                | 00D2412397998 | RES.      | RD14B2E561JT(5)     |
| PP16     | R679     |             | nsp                | 00D2412402919 | RES.      | RD14B2E333JT(5)     |
| PP16     | R680     |             | nsp                | 00D2412395945 | RES.      | RD14B2E470JT(5)     |
| PP16     | R681     |             | nsp                | 00D2412397998 | RES.      | RD14B2E561JT(5)     |
| PP16     | R682     |             | nsp                | 00D2412396928 | RES.      | RD14B2E101JT(5)     |
| PP16     | R683     |             | nsp                | 00D2412396928 | RES.      | RD14B2E101JT(5)     |
| PP16     | R684     |             | nsp                | 00D2412397927 | RES.      | RD14B2E271JT(5)     |
| PP16     | R685     |             | nsp                | 00D2412397927 | RES.      | RD14B2E271JT(5)     |
| PP16     | R686     |             | nsp                | 00D2412397927 | RES.      | RD14B2E271JT(5)     |
| PP16     | R687     |             | nsp                | 00D2412397927 | RES.      | RD14B2E271JT(5)     |
| PP16     | R688     |             | nsp                | 00D2412395945 | RES.      | RD14B2E470JT(5)     |
| PP16     | R689     |             | nsp                | 00D2412395903 | RES.      | RD14B2E330JT(5)     |
| PP16     | R690     |             | nsp                | 00D2412395903 | RES.      | RD14B2E330JT(5)     |
| PP16     | R691     |             | nsp                | 00D2412396944 | RES.      | RD14B2E121JT(5)     |
| PP16     | R693     |             | nsp                | 00D2412402951 | RES.      | RD14B2E473JT(5)     |
| PP16     | R694     |             | nsp                | 00D2412395990 | RES.      | RD14B2E750JT(5)     |
| PP16     | R695     |             | nsp                | 00D2412395990 | RES.      | RD14B2E750JT(5)     |
| PP16     | R697     |             | nsp                | 00D2412396928 | RES.      | RD14B2E101JT(5)     |
| PP16     | R851     |             | nsp                | 00D2412396928 | RES.      | RD14B2E101JT(5)     |
| PP16     | R852     |             | nsp                | 00D2412396928 | RES.      | RD14B2E101JT(5)     |
| PP16     | R853     |             | nsp                | 00D2412399954 | RES.      | RD14B2E272JT(5)     |
| PP16     | R854     |             | nsp                | 00D2412399970 | RES.      | RD14B2E332JT(5)     |
| PP16     | R855     |             | nsp                | 00D2412399954 | RES.      | RD14B2E272JT(5)     |
| PP16     | R856     |             | nsp                | 00D2412399970 | RES.      | RD14B2E332JT(5)     |
| PP16     | R857     |             | nsp                | 00D2412399970 | RES.      | RD14B2E332JT(5)     |
| PP16     | R858     |             | nsp                | 00D2412399970 | RES.      | RD14B2E332JT(5)     |
| PP16     | RD22     |             | nsp                | 00D2412400911 | RES.      | RD14B2E472JT(5)     |
| PP16     | RD23     |             | nsp                | 00D2412398971 | RES.      | RD14B2E122JT(5)     |
| PP16     | RD24     |             | nsp                | 00D2412398997 | RES.      | RD14B2E152JT(5)     |
| PP16     | RD25     |             | nsp                | 00D2412399996 | RES.      | RD14B2E392JT(5)     |
| PP16     | RD63     |             | nsp                | 00D2412400995 | RES.      | RD14B2E103JT(5)     |
| PP16     | RD64     |             | nsp                | 00D2412401952 | RES.      | RD14B2E183JT(5)     |
| PP16     | RD65     |             | nsp                | 00D2412401952 | RES.      | RD14B2E183JT(5)     |
| PP16     | RF51     |             | nsp                | 00D2412394962 | RES.      | RD14B2E220JT(5)     |
| PP16     | RF52     |             | nsp                | 00D2412400911 | RES.      | RD14B2E472JT(5)     |
| PP16     | RF53     |             | nsp                | 00D2412400911 | RES.      | RD14B2E472JT(5)     |
| PP16     | RF54     |             | nsp                | 00D2412402951 | RES.      | RD14B2E473JT(5)     |
| PP16     | RF55     |             | nsp                | 00D2412401952 | RES.      | RD14B2E183JT(5)     |
| PP16     | RF56     |             | nsp                | 00D2412400911 | RES.      | RD14B2E472JT(5)     |
| PP16     | RF57     |             | nsp                | 00D2412396928 | RES.      | RD14B2E101JT(5)     |
| PP16     | RF58     |             | nsp                | 00D2412400979 | RES.      | RD14B2E822JT(5)     |
| PP16     | RN01     |             | nsp                | 00D2412401936 | RES.      | RD14B2E153JT(5)     |
| PP16     | RN02     |             | nsp                | 00D2412400995 | RES.      | RD14B2E103JT(5)     |
| PP16     | RN03     |             | nsp                | 00D2412402951 | RES.      | RD14B2E473JT(5)     |
| PP16     | RN04     |             | nsp                | 00D2412402951 | RES.      | RD14B2E473JT(5)     |
| PP16     | RN05     |             | nsp                | 00D2412403934 | RES.      | RD14B2E104JT(5)     |
| PP16     | RN06     |             | nsp                | 00D2412398971 | RES.      | RD14B2E122JT(5)     |
| PP16     | RN09     |             | nsp                | 00D2412402951 | RES.      | RD14B2E473JT(5)     |
| PP16     | RN10     |             | nsp                | 00D2412405990 | RES.      | RD14B2E225JT(5)     |
| PP16     | RN61     |             | nsp                | 00D2412400911 | RES.      | RD14B2E472JT(5)     |
| PP16     | RN62     |             | nsp                | 00D2412400911 | RES.      | RD14B2E472JT(5)     |
| PP16     | RN63     |             | nsp                | 00D2412400911 | RES.      | RD14B2E472JT(5)     |
| PP16     | RN64     |             | nsp                | 00D2412400911 | RES.      | RD14B2E472JT(5)     |
| PP16     | RT01     |             | nsp                | 00D2412396928 | RES.      | RD14B2E101JT(5)     |
| PP16     | RT02     |             | nsp                | 00D2412395903 | RES.      | RD14B2E330JT(5)     |
| PP16     | RT03     |             | nsp                | 00D2412395990 | RES.      | RD14B2E750JT(5)     |
| PP16     | RT04     |             | nsp                | 00D2412395903 | RES.      | RD14B2E330JT(5)     |
| PP16     | RT05     |             | nsp                | 00D2412398971 | RES.      | RD14B2E122JT(5)     |
| PP16     | RT06     |             | nsp                | 00D2412403934 | RES.      | RD14B2E104JT(5)     |
| PP16     | RY51     |             | nsp                | 00D2412396928 | RES.      | RD14B2E101JT(5)     |
| PP16     | ▲ RY55   |             | 129050002308S      | 129050002308S | RES.      | ! RF25S 10OHM J VTE |
| PP16     | RY56     |             | nsp                | 00D2412400911 | RES.      | RD14B2E472JT(5)     |

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| PWB NAME | POS. NO. | VERS. COLOR | PART NO. (FOR EUR) | PART NO. (MZ) | PART NAME                                 | DESCRIPTION                  |
|----------|----------|-------------|--------------------|---------------|-------------------------------------------|------------------------------|
| PP16     | RY57     |             | nsp                | 00D2412400995 | RES.                                      | RD14B2E103JT(5)              |
| PP16     | RY58     |             | nsp                | 00D2412402951 | RES.                                      | RD14B2E473JT(5)              |
| PP16     | RY59     |             | nsp                | 00D2412395945 | RES.                                      | RD14B2E470JT(5)              |
| PP16     | RY60     |             | nsp                | 00D2412395945 | RES.                                      | RD14B2E470JT(5)              |
| PP16     | RY61     |             | nsp                | 00D2412400911 | RES.                                      | RD14B2E472JT(5)              |
| PP16     | SF51     |             | 664010002001S      | 664010002001S | SW                                        | SSSU120300                   |
|          |          |             |                    |               | <b>HEADPHONE PWB PR16 (632010005003M)</b> |                              |
| PR16     | C901     |             | 1340100445040      | 1340100445040 | ELECT CAP.                                | RA2-25V470ME3#8-T2           |
| PR16     | C902     |             | 1340100445040      | 1340100445040 | ELECT CAP.                                | RA2-25V470ME3#8-T2           |
| PR16     | C903     |             | 1340100465000      | 1340100465000 | ELECT CAP.                                | RA2-25V221MG3#8-T2           |
| PR16     | C904     |             | 1340100465000      | 1340100465000 | ELECT CAP.                                | RA2-25V221MG3#8-T2           |
| PR16     | C905     |             | 1340100445040      | 1340100445040 | ELECT CAP.                                | RA2-25V470ME3#8-T2           |
| PR16     | C906     |             | 1340100445040      | 1340100445040 | ELECT CAP.                                | RA2-25V470ME3#8-T2           |
| PR16     | D901     |             | nsp                | 00D2760401905 | DIODE                                     | 1SS133T77                    |
| PR16     | D902     |             | nsp                | 00D2760401905 | DIODE                                     | 1SS133T77                    |
| PR16     | D903     |             | nsp                | 00D2760401905 | DIODE                                     | 1SS133T77                    |
| PR16     | D904     |             | nsp                | 00D2760401905 | DIODE                                     | 1SS133T77                    |
| PR16     | J903     | /N1B        | 6430100040000      | 6430100040000 | TERMINAL                                  | YKB26-5138 HP JACK(GOLD)     |
| PR16     | J903     | /N1S        | 6430100050030      | 6430100050030 | TERMINAL                                  | YKB26-5009 HP JACK(SILVER)   |
| PR16     | L901     |             | 1190100014090      | 1190100014090 | COIL                                      | BL02RN2R1N1A FERRITE BEAD    |
| PR16     | L902     |             | 1190100014090      | 1190100014090 | COIL                                      | BL02RN2R1N1A FERRITE BEAD    |
| PR16     | Q901     |             | 00D2630118014      | 00D2630118014 | IC                                        | NJM4560DD                    |
| PR16     | Q903     |             | 213050005400S      | 213050005400S | TRS.                                      | 2SC2240N-GR_BL(932202943676) |
| PR16     | Q904     |             | 213050005400S      | 213050005400S | TRS.                                      | 2SC2240N-GR_BL(932202943676) |
| PR16     | Q905     |             | 211050004401S      | 211050004401S | TRS.                                      | 2SA970 (GR) OR (BL)          |
| PR16     | Q906     |             | 211050004401S      | 211050004401S | TRS.                                      | 2SA970 (GR) OR (BL)          |
| PR16     | Q907     |             | 00D2730253918      | 00D2730253918 | TRS.                                      | 2SC2878(A/B)TPE2             |
| PR16     | Q908     |             | 00D2730253918      | 00D2730253918 | TRS.                                      | 2SC2878(A/B)TPE2             |
| PR16     | Q909     |             | 00D2730253918      | 00D2730253918 | TRS.                                      | 2SC2878(A/B)TPE2             |
| PR16     | Q910     |             | 00D2730253918      | 00D2730253918 | TRS.                                      | 2SC2878(A/B)TPE2             |
| PR16     | R901     |             | nsp                | 00D2412396928 | RES.                                      | RD14B2E101JT(5)              |
| PR16     | R902     |             | nsp                | 00D2412396928 | RES.                                      | RD14B2E101JT(5)              |
| PR16     | R903     |             | nsp                | 00D2412395903 | RES.                                      | RD14B2E330JT(5)              |
| PR16     | R904     |             | nsp                | 00D2412395903 | RES.                                      | RD14B2E330JT(5)              |
| PR16     | R905     |             | nsp                | 00D2412395903 | RES.                                      | RD14B2E330JT(5)              |
| PR16     | R906     |             | nsp                | 00D2412395903 | RES.                                      | RD14B2E330JT(5)              |
| PR16     | R907     |             | nsp                | 00D2412398997 | RES.                                      | RD14B2E152JT(5)              |
| PR16     | R908     |             | nsp                | 00D2412398997 | RES.                                      | RD14B2E152JT(5)              |
| PR16     | R909     |             | nsp                | 00D2412398997 | RES.                                      | RD14B2E152JT(5)              |
| PR16     | R910     |             | nsp                | 00D2412398997 | RES.                                      | RD14B2E152JT(5)              |
| PR16     | R911     |             | nsp                | 00D2412395903 | RES.                                      | RD14B2E330JT(5)              |
| PR16     | R912     |             | nsp                | 00D2412395903 | RES.                                      | RD14B2E330JT(5)              |
| PR16     | R913     |             | nsp                | 00D2412395903 | RES.                                      | RD14B2E330JT(5)              |
| PR16     | R914     |             | nsp                | 00D2412395903 | RES.                                      | RD14B2E330JT(5)              |
| PR16     | R915     |             | nsp                | 00D2412403934 | RES.                                      | RD14B2E104JT(5)              |
| PR16     | R916     |             | nsp                | 00D2412403934 | RES.                                      | RD14B2E104JT(5)              |
| PR16     | R917     |             | nsp                | 00D2412396928 | RES.                                      | RD14B2E101JT(5)              |
| PR16     | R918     |             | nsp                | 00D2412396928 | RES.                                      | RD14B2E101JT(5)              |
| PR16     | R919     |             | nsp                | 00D2412400911 | RES.                                      | RD14B2E472JT(5)              |
| PR16     | R920     |             | nsp                | 00D2412400911 | RES.                                      | RD14B2E472JT(5)              |
| PR16     | R921     |             | nsp                | 00D2412400911 | RES.                                      | RD14B2E472JT(5)              |
| PR16     | R922     |             | nsp                | 00D2412400911 | RES.                                      | RD14B2E472JT(5)              |
| PR16     | R923     |             | nsp                | 00D2412400911 | RES.                                      | RD14B2E472JT(5)              |
| PR16     | R924     |             | nsp                | 00D2412400911 | RES.                                      | RD14B2E472JT(5)              |
| PR16     | R925     |             | nsp                | 00D2412400911 | RES.                                      | RD14B2E472JT(5)              |
| PR16     | R926     |             | nsp                | 00D2412400911 | RES.                                      | RD14B2E472JT(5)              |
| PR16     | R930     |             | 679010001000S      | 679010001000S | VER. RES.                                 | RK09L12B0                    |
| PR16     | R951     | /N1S        | nsp                | 00D2412396928 | RES.                                      | RD14B2E101JT(5)              |
| PR16     | R952     | /N1B        | nsp                | 00D2412396928 | RES.                                      | RD14B2E101JT(5)              |
|          |          |             |                    |               | <b>FRONT PWB PY16 (632010007009M)</b>     |                              |
| PY16     | CY01     |             | 1340100445040      | 1340100445040 | ELECT CAP.                                | RA2-25V470ME3#8-T2           |
| PY16     | CY02     |             | nsp                | 00D2570512903 | CER. CAP.                                 | CK73F1E104ZT +1608           |
| PY16     | CY03     |             | 1340100445040      | 1340100445040 | ELECT CAP.                                | RA2-25V470ME3#8-T2           |
| PY16     | CY04     |             | nsp                | 00D2570511920 | CER. CAP.                                 | CK73F1H473ZT +1608           |
| PY16     | CY05     |             | 1340100215010      | 1340100215010 | ELECT CAP.                                | RA2-10V221MF3#8-T2           |
| PY16     | CY06     |             | nsp                | 00D2570512903 | CER. CAP.                                 | CK73F1E104ZT +1608           |
| PY16     | CY07     |             | nsp                | 132050006504S | CER. CAP.                                 | GRM188B11H331KA01D           |

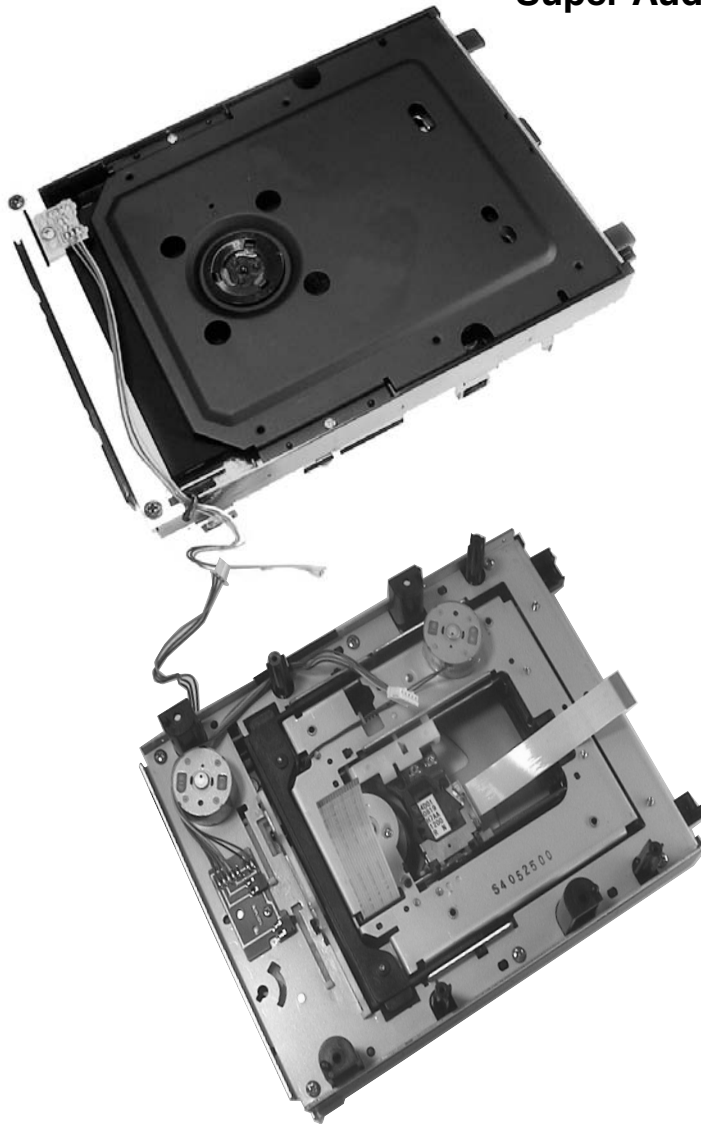
NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

| PWB<br>NAME | POS. NO. | VERS.<br>COLOR | PART NO.<br>(FOR EUR) | PART NO.<br>(MZ) | PART NAME   | DESCRIPTION                  |
|-------------|----------|----------------|-----------------------|------------------|-------------|------------------------------|
| PY16        | CY08     |                | nsp                   | 00D2570512903    | CER. CAP.   | CK73F1E104ZT +1608           |
| PY16        | CY09     |                | nsp                   | 00D2570512903    | CER. CAP.   | CK73F1E104ZT +1608           |
| PY16        | DY02     |                | 2630100010090         | 2630100010090    | L.E.D.      | LT3D8B RED LED               |
| PY16        | DY07     |                | 202050001507S         | 202050001507S    | ZENER DIODE | 02CZ3.9-X(Te85L)             |
| PY16        | LY01     |                | 1190100014090         | 1190100014090    | COIL        | BL02RN2R1N1A FERRITE BEAD    |
| PY16        | LY02     |                | 1190100014090         | 1190100014090    | COIL        | BL02RN2R1N1A FERRITE BEAD    |
| PY16        | LY03     |                | 1190100014090         | 1190100014090    | COIL        | BL02RN2R1N1A FERRITE BEAD    |
| PY16        | LY04     |                | 1190100014090         | 1190100014090    | COIL        | BL02RN2R1N1A FERRITE BEAD    |
| PY16        | QY01     |                | 239010002009S         | 239010002009S    | IC          | ML9207-01GP                  |
| PY16        | QY02     |                | 214050003506S         | 214050003506S    | TRS.        | 2SC4081 (Q_R) (312000451210) |
| PY16        | QY05     |                | 212050002507S         | 212050002507S    | TRS.        | 2SA1586 (Y_GR) TE85L         |
| PY16        | RY01     |                | nsp                   | 00D2472006915    | CHIP RES.   | RM73B--271JT +1608           |
| PY16        | RY02     |                | nsp                   | 00D2472006915    | CHIP RES.   | RM73B--271JT +1608           |
| PY16        | RY03     |                | nsp                   | 00D2472006944    | CHIP RES.   | RM73B--391JT +1608           |
| PY16        | RY04     |                | nsp                   | 00D2472005961    | CHIP RES.   | RM73B--181JT +1608           |
| PY16        | RY05     |                | nsp                   | 00D2472005961    | CHIP RES.   | RM73B--181JT +1608           |
| PY16        | RY06     |                | nsp                   | 00D2472005945    | CHIP RES.   | RM73B--151JT +1608           |
| PY16        | RY09     |                | nsp                   | 00D2472006944    | CHIP RES.   | RM73B--391JT +1608           |
| PY16        | RY10     |                | nsp                   | 00D2472005945    | CHIP RES.   | RM73B--151JT +1608           |
| PY16        | RY13     |                | nsp                   | 00D2472007943    | CHIP RES.   | RM73B--102JT +1608           |
| PY16        | RY14     |                | nsp                   | 00D2472009983    | CHIP RES.   | RM73B--103JT +1608           |
| PY16        | RY15     |                | nsp                   | 00D2472008968    | CHIP RES.   | RM73B--332JT +1608           |
| PY16        | RY18     |                | nsp                   | 00D2472006960    | CHIP RES.   | RM73B--471JT +1608           |
| PY16        | RY19     |                | nsp                   | 00D2472007943    | CHIP RES.   | RM73B--102JT +1608           |
| PY16        | RY20     |                | nsp                   | 00D2472007943    | CHIP RES.   | RM73B--102JT +1608           |
| PY16        | RY22     |                | nsp                   | 00D2472005903    | CHIP RES.   | RM73B--101JT +1608           |
| PY16        | RY23     |                | nsp                   | 00D2472007943    | CHIP RES.   | RM73B--102JT +1608           |
| PY16        | RY24     |                | nsp                   | 00D2472007901    | CHIP RES.   | RM73B--681JT +1608           |
| PY16        | RY25     |                | nsp                   | 00D2472012967    | CHIP RES.   | RM73B--154JT +1608           |
| PY16        | RY26     |                | nsp                   | 00D2472009983    | CHIP RES.   | RM73B--103JT +1608           |
| PY16        | RY41     |                | nsp                   | 00D2472005903    | CHIP RES.   | RM73B--101JT +1608           |
| PY16        | SY01     |                | 662010001408S         | 662010001408S    | SW          | SKHVBF F0052759M             |
| PY16        | SY02     |                | 662010001408S         | 662010001408S    | SW          | SKHVBF F0052759M             |
| PY16        | SY03     |                | 662010001408S         | 662010001408S    | SW          | SKHVBF F0052759M             |
| PY16        | SY04     |                | 662010001408S         | 662010001408S    | SW          | SKHVBF F0052759M             |
| PY16        | SY05     |                | 662010001408S         | 662010001408S    | SW          | SKHVBF F0052759M             |
| PY16        | SY06     |                | 662010001408S         | 662010001408S    | SW          | SKHVBF F0052759M             |
| PY16        | SY07     |                | 662010001408S         | 662010001408S    | SW          | SKHVBF F0052759M             |
| PY16        | SY10     |                | 662010001408S         | 662010001408S    | SW          | SKHVBF F0052759M             |
| PY16        | VX01     |                | 172010001004M         | 172010001004M    | DISPLAY     | CH2163C                      |
| PY16        | XY01     |                | 142010002402S         | 142010002402S    | FILTER      | CSTLF4M00G55-A0              |
| PY16        | ZY01     |                | 2620100010060         | 2620100010060    | PHOTO UNIT  | RPM6936-V4 (IR SENSOR)       |

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

# Mecha Loader and Mecha Traverse

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Super Audio CD / DVD Player: DV9600

Super Audio CD Player: SA-11S1

SA-15S1

SA7001

SA7001KI

SA8001

SA8400

## TABLE OF CONTENTS

### SECTION 2

### PAGE

MECHA LOADER AND MECHA TRAVERSE

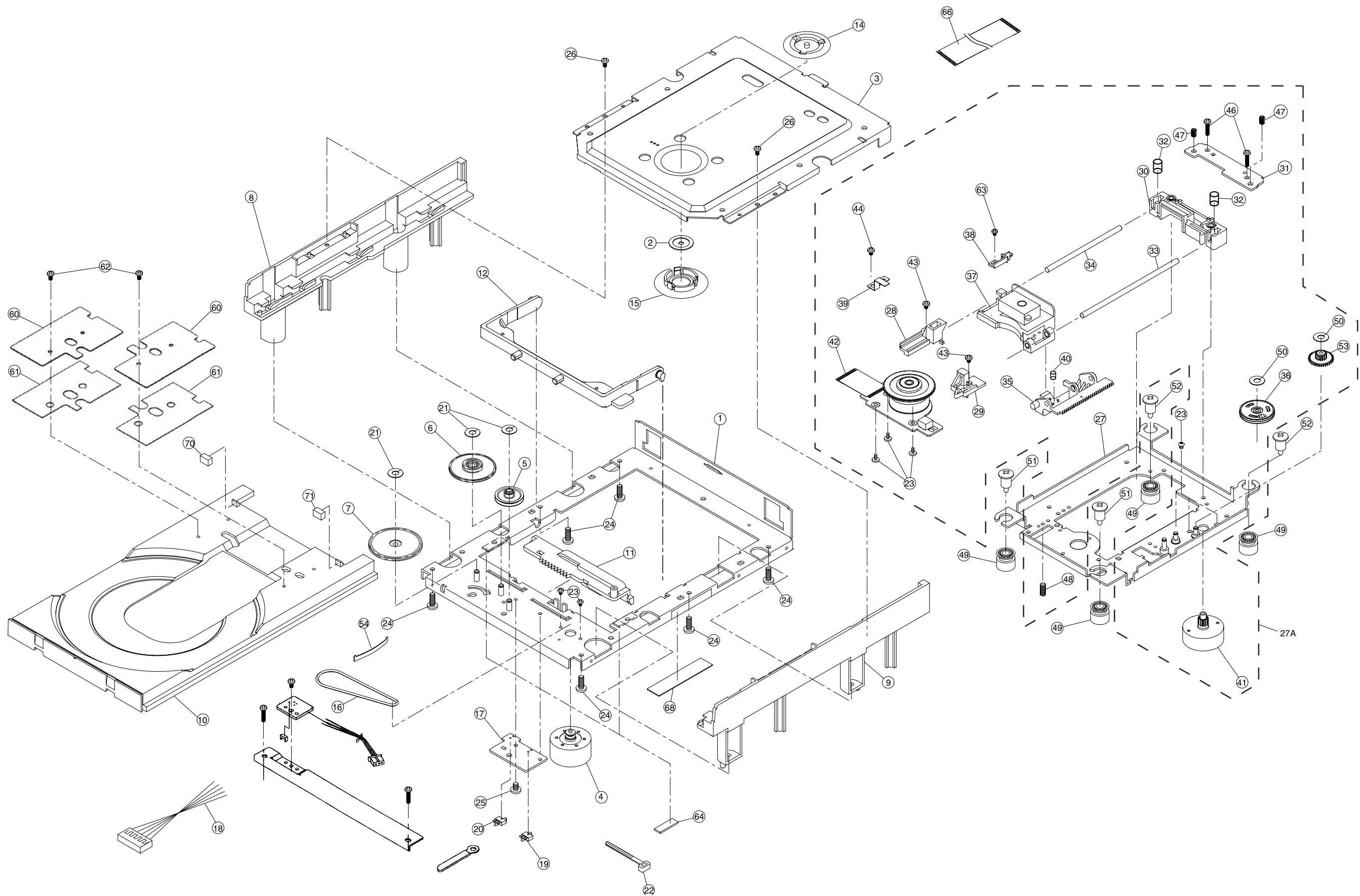
1 EXPLODED VIEW AND PARTS LIST..... 2-2



## 1. EXPLODED VIEW AND PARTS LIST

| PWB NAME | POS. NO. | VERS. COLOR | PART NO. (FOR EUR) | PART NO. (MZ) | PART NAME   | DESCRIPTION                               |
|----------|----------|-------------|--------------------|---------------|-------------|-------------------------------------------|
|          | 1        |             | nsp                | nsp           | CHASSIS     | MAIN CHASSIS ASSY 9KC 1A01 7              |
|          | 2        |             | 90M13AK160210      | 90M13AK160210 | BRACKET     | CLAMPER BRACKET 9KA 7P08 5                |
|          | 3        |             | nsp                | nsp           | BRACKET     | GUIDE CLAMP BRACKET                       |
|          | 4        |             | 90M-MM001290R      | 90M-MM001290R | MOTOR       | LOADING MOTOR ASSY 9KC 2A00 3             |
|          | 5        |             | 90M13AK058230      | 90M13AK058230 | GEAR        | LOADING GEAR 9KC 2G02 9                   |
|          | 6        |             | 90M13AK058210      | 90M13AK058210 | GEAR        | LOADING GEAR 2ND 9KB 9G03 0               |
|          | 7        |             | 90M13AK058220      | 90M13AK058220 | GEAR        | LOADING GEAR 3RD 9KB 9G03 1               |
|          | 8        |             | 90M13AK105210      | 90M13AK105210 | CHASSIS     | SUB CHASSIS-L 9KA 2G41 7                  |
|          | 9        |             | 90M13AK105220      | 90M13AK105220 | CHASSIS     | SUB CHASSIS-R 9KA 2G41 8                  |
|          | 10       |             | 90M13AK163210      | 90M13AK163210 | TRAY        | TRAY-D4 9KA 2G778                         |
|          | 11       |             | 90M13AK054210      | 90M13AK054210 | CAM         | SLIDE-CAM 9KC 1G00 3                      |
|          | 12       |             | 90M13AK002210      | 90M13AK002210 | ARM         | TRAVERSE ARM 9KC 1G00 4                   |
|          | 14       |             | 90M13AK005210      | 90M13AK005210 | CLAMPER     | CLAMPER H 9KA 7G20 2                      |
|          | 15       |             | 90M13AK005220      | 90M13AK005220 | CLAMPER     | CLAMPER L 9KA 7G20 3                      |
|          | 16       |             | 90M13AK264210      | 90M13AK264210 | BELT        | LOADING BELT 9KB 9G01 5                   |
|          | 17       |             | nsp                | nsp           | PWB ASSY    | SWITCH P.W.B. 9KC 1P01 4                  |
|          | 18       |             | nsp                | nsp           | CORD        | 5P PH WIRE 9KC 2G04 3                     |
|          | 19       |             | 90M-SP001260R      | 90M-SP001260R | SWITCH      | SWITCH ESE22MH21 9KS 01W2 04              |
|          | 20       |             | 90M-SP001270R      | 90M-SP001270R | SWITCH      | SWITCH ESE22MH23 9KS 01W2 05              |
|          | 21       |             | 90M13AK012210      | 90M13AK012210 | WASHER      | POLY.SLIT WASHER 2.6X6X0.25C 9KP 26C6 25  |
|          | 22       |             | nsp                | nsp           | CLAMPER     | WIRE CLAMPER 445 8004 007                 |
|          | 23       |             | nsp                | nsp           | SCREW       | PRECISION SCREW 1.7X2.2 TYPE3 9KS 17N0 22 |
|          | 24       |             | nsp                | nsp           | SCREW       | SCREW 2.6X6 CBTS(B)-Z 9KB 26BK 06         |
|          | 25       |             | nsp                | nsp           | SCREW       | PRECISION SCREW 2X3(S) TYPE3 9KS 20TK 33  |
|          | 26       |             | nsp                | nsp           | SCREW       | SCREW 2X6 CBTS(P)-Z 9KB 20PK 06           |
|          | 27A      |             | 90M13AK304210      | 90M13AK304210 | MECHANISM   | TRAVERSE MECHA (FEED) ASSY 9KC 2A06 3A    |
|          | 27       |             | nsp                | nsp           | CHASSIS     | PU CHASSIS ASSY                           |
|          | 28       |             | nsp                | nsp           | HOLDER      | SHAFT HOLDER L                            |
|          | 29       |             | nsp                | nsp           | HOLDER      | SHAFT HOLDER R                            |
|          | 30       |             | nsp                | nsp           | BRACKET     | SHAFT TILT BASE                           |
|          | 31       |             | nsp                | nsp           | RETAINER    | SHAFT TILT PLATE                          |
|          | 32       |             | nsp                | nsp           | SPRING      | TILT SPRING                               |
|          | 33       |             | nsp                | nsp           | SHAFT       | MAIN SHAFT                                |
|          | 34       |             | nsp                | nsp           | SHAFT       | SUB SHAFT                                 |
|          | 35       |             | nsp                | nsp           | GEAR        | PU RACK GEAR                              |
|          | 36       |             | nsp                | nsp           | GEAR        | FEED GEAR 2ND ASSY                        |
|          | 37       |             | nsp                | nsp           | MECHANISM   | PICK UP HOP-1200R                         |
|          | 38       |             | nsp                | nsp           | SPRING      | PU SPRING                                 |
|          | 39       |             | nsp                | nsp           | SPRING      | SHAFT SPRING                              |
|          | 40       |             | nsp                | nsp           | SPRING      | RACK GEAR SPRING                          |
|          | 41       |             | nsp                | nsp           | MOTOR       | FEED MOTOR ASSY                           |
|          | 42       |             | nsp                | nsp           | MOTOR       | T/T MOTOR ASSY                            |
|          | 43       |             | nsp                | nsp           | SCREW       | SCREW 2.6X6 CBTS(S)-Z                     |
|          | 44       |             | nsp                | nsp           | SCREW       | SCREW 2.6X4 CBTS(S)-Z                     |
|          | 46       |             | nsp                | nsp           | SCREW       | SCREW 2.6X15 CFTS(S)-Z                    |
|          | 47       |             | nsp                | nsp           | SCREW       | SCREW 3X4 BSS                             |
|          | 48       |             | nsp                | nsp           | SCREW       | SCREW 3X8 BSS (A)                         |
|          | 49       |             | 90M13AK130220      | 90M13AK130220 | DAMPER      | DAMPER-IDLE HARD-40 C2G083B               |
|          | 50       |             | nsp                | nsp           | WASHER      | POLY.SLIT WASHER 2.1X4X0.25C              |
|          | 51       |             | nsp                | nsp           | SCREW       | SPECIAL SCREW (FRONT)                     |
|          | 52       |             | nsp                | nsp           | SCREW       | SPECIAL SCREW (REAR)                      |
|          | 53       |             | nsp                | nsp           | GEAR        | FEED GEAR 3RD                             |
|          | 54       |             | 90M13AK116210      | 90M13AK116210 | LEAF SPRING | TRAY-SPRING-VXF 9KB 7P02 4                |
|          | 60       |             | 90M13AK104210      | 90M13AK104210 | RETAINER    | PLATE-RE-2HPC 9KC 2P03 1                  |
|          | 61       |             | 90M13AK104220      | 90M13AK104220 | RETAINER    | WF-PLATE-RE-2HPC 9KC 2P03 2               |
|          | 62       |             | nsp                | nsp           | SCREW       | PRECISION SCREW 2X4(P) TYPE1 9KS 20P1 04  |
|          | 63       |             | nsp                | nsp           | SCREW       | PRECISION SCREW 1.7X5 TYPE3               |
|          | 64       |             | nsp                | nsp           | CUSHION     | RUBBER CUSHION 9KC 1G04 2                 |
|          | 66       |             | 90M-YU001350R      | 90M-YU001350R | FFC         | FFC-0.5-24 L=80 9KA 2P70 6                |
|          | 68       |             | nsp                | nsp           | TAPE        | TAPE W10X45 (NITTO NO.156)                |
|          | 70       |             | nsp                | nsp           | CUSHION     | CUSHION L 6X3Xt4 9KC 2G07 6               |
|          | 71       |             | nsp                | nsp           | CUSHION     | CUSHION R 6X3Xt2 9KC 2G07 7               |

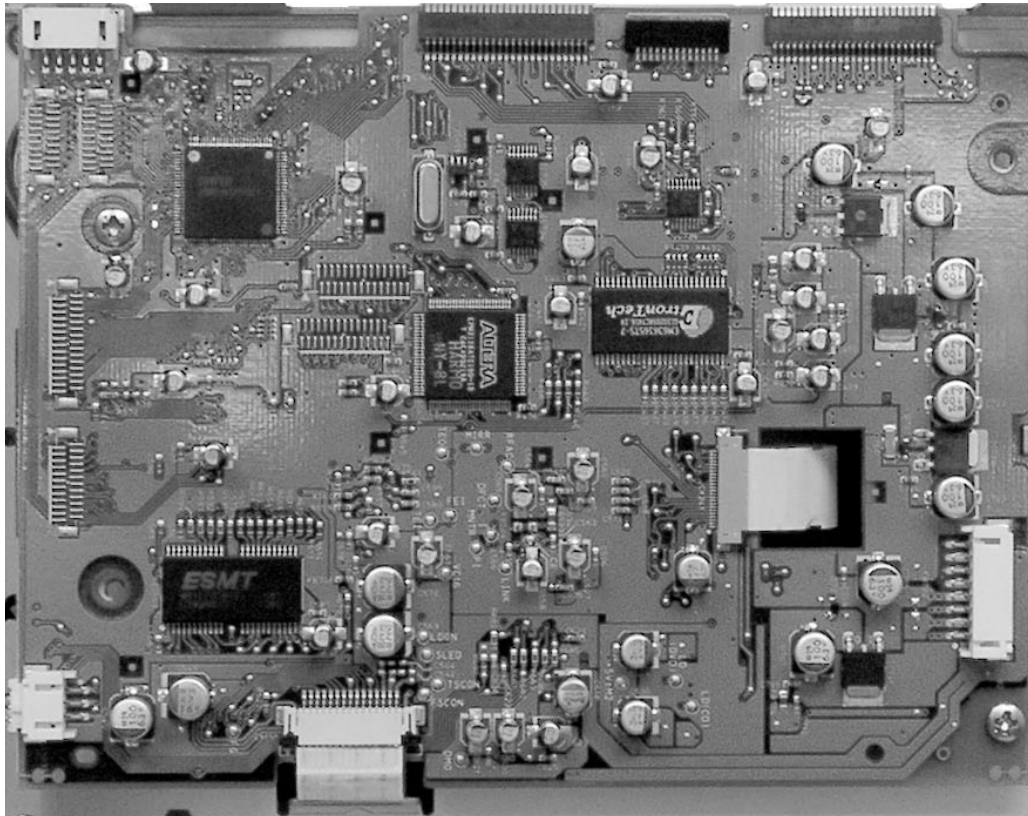
NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.



# Super Audio CD PWB Module

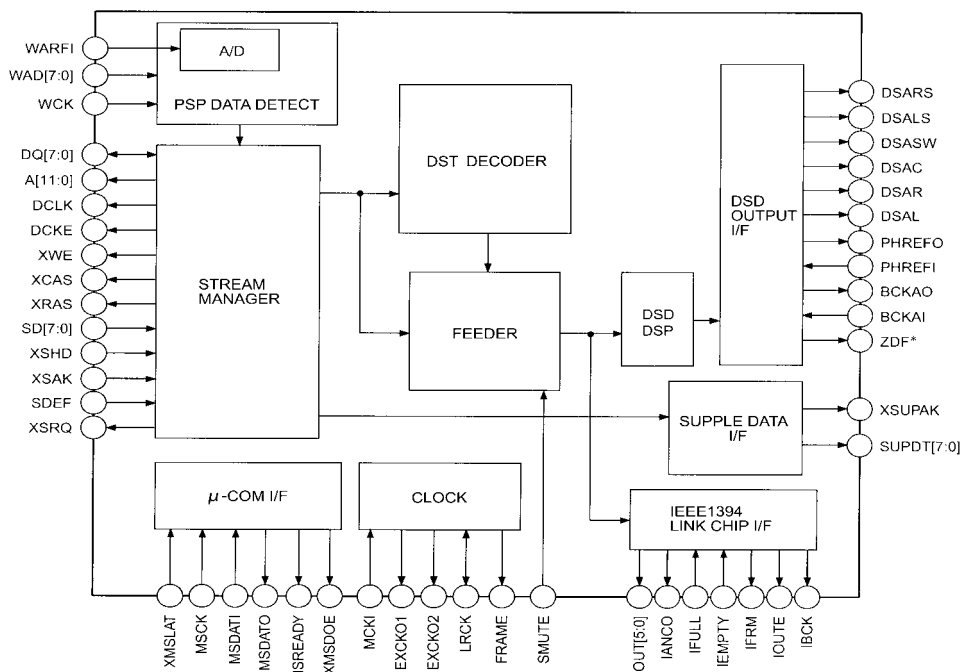
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Super Audio CD Player :   SA7001  
                                          SA7001KI  
                                          SA8001



## TABLE OF CONTENTS

| SECTION 3                      | PAGE |
|--------------------------------|------|
| SUPER AUDIO CD PWB MODULE      |      |
| 1. IC DATA .....               | 3-2  |
| 2. BLOCK DIAGRAM .....         | 3-23 |
| 3. SCHEMATIC DIAGRAM.....      | 3-25 |
| 4. PARTS LOCATION.....         | 3-37 |
| 5. ELECTRICAL PARTS LIST ..... | 3-41 |

**IC401: CXD2753R**

**IC401: CXD2753R**

| No. | Pin Name | I/O | Functions                                                                                                                      |
|-----|----------|-----|--------------------------------------------------------------------------------------------------------------------------------|
| 1   | VSC      | -   | It fixed to ground.( for Core)                                                                                                 |
| 2   | XMSLAT   | I   | Latch input for mCOM serial communication.                                                                                     |
| 3   | MSCK     | I   | Shift clock input for mCOM serial communication.                                                                               |
| 4   | MSDATI   | I   | Data input for mCOM serial communication.                                                                                      |
| 5   | VDC      | -   | +2.5V Power for Core.                                                                                                          |
| 6   | MSDATO   | O   | Data output for mCOM serial communication. "Hi-Z" potential except the output mode.                                            |
| 7   | MSREADY  | O   | Completion flag of output preparation for mCOM serial communication. "L" is outputted at the time of completion.               |
| 8   | XMSDOE   | O   | Output enable pin for mCOM serial communication. "L" is outputted at the time of MSDATO mode.                                  |
| 9   | XRST     | I   | Reset pin. The whole IC is reset by at the time of "L" potential.                                                              |
| 10  | SMUTE    | lpd | Soft Mute. Soft mute of the audio output is carried out at the time of "H" potential.It releases at the time of "L" potential. |
| 11  | MCKI     | I   | Master Clock input.                                                                                                            |
| 12  | VSIO     | -   | It fixed to Ground. Ground for I/O.                                                                                            |
| 13  | EXCKO1   | O   | External output Clock 1.                                                                                                       |
| 14  | EXCKO2   | O   | External output Clock 2.                                                                                                       |
| 15  | LRCK     | O   | 44.1kHz, 1Fs Clock output.                                                                                                     |
| 16  | FRAME    | O   | Frame signal output.                                                                                                           |
| 17  | VDIO     | -   | +3.3V Power for I/O.                                                                                                           |
| 18  | MNT0     | O   | Monitor output.                                                                                                                |
| 19  | MNT1     | O   | Monitor output.                                                                                                                |
| 20  | MNT2     | O   | Monitor output.                                                                                                                |
| 21  | MNT3     | O   | Monitor output.                                                                                                                |
| 22  | TESTO    | O   | Output terminal for a Test. (open)                                                                                             |
| 23  | TESTO    | O   | Output terminal for a Test.(open)                                                                                              |
| 24  | TESTO    | O   | Output terminal for a Test.(open)                                                                                              |
| 25  | TESTO    | O   | Output terminal for a Test.(open)                                                                                              |
| 26  | TCK      | I   | Clock input for a Test. It fixed to "L" potential.                                                                             |
| 27  | TDI      | lpu | Input pin(pull-up) for a Test.(open)                                                                                           |
| 28  | VSC      | -   | It fixed to Ground. Ground for CORE.                                                                                           |
| 29  | TDO      | O   | Output for a Test.(open).                                                                                                      |
| 30  | TMS      | lpu | Input pin(pull-up) for a Test.(open)                                                                                           |
| 31  | TRST     | lpu | Reset pin(pull-up) for a Test. Input the Power-on reset signal or fixed to "L" potential.                                      |
| 32  | TEST1    | I   | Test input pin. It fixed to "L" potential.                                                                                     |
| 33  | TEST2    | I   | Test input pin. It fixed to "L" potential.                                                                                     |
| 34  | TEST3    | I   | Test input pin. It fixed to "L" potential.                                                                                     |
| 35  | VDC      | -   | +2.5V Power for CORE.                                                                                                          |
| 36  | TESTO    | O   | Out put for TEST. It fixed to open.                                                                                            |
| 37  | XBIT     | O   | DST monitor.                                                                                                                   |
| 38  | SUPDT0   | O   | Supplementary data output. (LSB)                                                                                               |
| 39  | SUPDT1   | O   | Supplementary data output.                                                                                                     |
| 40  | SUPDT2   | O   | Supplementary data output.                                                                                                     |
| 41  | SUPDT3   | O   | Supplementary data output.                                                                                                     |
| 42  | VSIO     | -   | Ground for I/O.                                                                                                                |
| 43  | SUPDT4   | O   | Supplementary data output.                                                                                                     |
| 44  | SUPDT5   | O   | Supplementary data output.                                                                                                     |
| 45  | VDIO     | -   | +3.3V Power for I/O.                                                                                                           |
| 46  | SUPDT6   | O   | Supplementary data output.                                                                                                     |
| 47  | SUPDT7   | O   | Supplementary data output. (MSB)                                                                                               |
| 48  | XSUPAK   | O   | Supplementary data Acknowledge output terminal.                                                                                |
| 49  | VSC      | -   | Ground for CORE.                                                                                                               |
| 50  | TESTO    | O   | Output for TEST. (open)                                                                                                        |
| 51  | TESTI    | I   | Input for TEST. It fixed to "L" potential.                                                                                     |
| 52  | TESTI    | I   | Input for TEST. It fixed to "L" potential.                                                                                     |
| 53  | TESTO    | O   | Output for TEST. (open)                                                                                                        |
| 54  | VDC      | -   | +2.5V Power for CORE.                                                                                                          |
| 55  | DSADML   | O   | DSD Data output terminal for Lch Down Mix.                                                                                     |
| 56  | DSADMR   | O   | DSD Data output terminal for Rch Down Mix.                                                                                     |
| 57  | BCKASL   | I   | I/O selection terminal of the Bit clock for DSD data output. L=input (Slave), H=output (Master)                                |
| 58  | VSDSD    | -   | Ground terminal for DSD data output.                                                                                           |
| 59  | BCKAI    | I   | Bit clock input terminal for DSD data output. Input a Bit clock into this terminal at the time of BCKASL="L" potential.        |
| 60  | BCKAO    | O   | Bit clock output terminal for DSD data output. Bit clock output from this terminal at the time of BCKASL="H" potential.        |
| 61  | PHREFI   | I   | Reference phase signal input terminal for DSD output phase modulation.                                                         |
| 62  | PHREFO   | O   | Reference phase signal output terminal for DSD output phase modulation.                                                        |

**IC401: CXD2753R**

| No. | Pin Name | I/O | Functions                                                                                                                |
|-----|----------|-----|--------------------------------------------------------------------------------------------------------------------------|
| 63  | ZDFL     | O   | Lch zero-data detection flag (at the time of mcom setup). It will be set to "H" if non-sound data continues 300 msecs.   |
| 64  | DSAL     | O   | DSD data output terminal for Lch speaker.                                                                                |
| 65  | ZDFR     | O   | Rch zero-data detection flag (at the time of mcom setup). It will be set to "H" if non-sound data continues 300 msecs.   |
| 66  | DSAR     | O   | DSD data output terminal for Rch speaker.                                                                                |
| 67  | VDDSD    | -   | +3.3V Power for DSD data output.                                                                                         |
| 68  | ZDFC     | O   | Cch zero-data detection flag (at the time of mcom setup). It will be set to "H" if non-sound data continues 300 msecs.   |
| 69  | DSAC     | O   | DSD data output terminal for Cch speaker.                                                                                |
| 70  | ZDFLFE   | O   | LFEch zero-data detection flag (at the time of mcom setup). It will be set to "H" if non-sound data continues 300 msecs. |
| 71  | DSASW    | O   | DSD data output terminal for SWch speaker.                                                                               |
| 72  | VSDSD    | -   | Ground for DSD data output.                                                                                              |
| 73  | ZDFLS    | O   | LSch zero-data detection flag (at the time of mcom setup). It will be set to "H" if non-sound data continues 300 msecs.  |
| 74  | DSALS    | O   | DSD data output terminal for LSch speaker.                                                                               |
| 75  | ZDFRS    | O   | RSch zero-data detection flag (at the time of mcom setup). It will be set to "H" if non-sound data continues 300 msecs.  |
| 76  | DSARS    | O   | DSD data output terminal for RSch speaker.                                                                               |
| 77  | VDDSD    | O   | +3.3V Power for DSD data output.                                                                                         |
| 78  | IOUT0    | O   | Data output terminal 0 for IEEE1394 link chip I/F.                                                                       |
| 79  | IOUT1    | O   | Data output terminal 1 for IEEE1394 link chip I/F.                                                                       |
| 80  | VSC      | -   | Ground for CORE.                                                                                                         |
| 81  | IOUT2    | O   | Data output terminal 2 for IEEE1394 link chip I/F.                                                                       |
| 82  | IOUT3    | O   | Data output terminal 3 for IEEE1394 link chip I/F.                                                                       |
| 83  | VDC      | -   | +2.5V Power for CORE.                                                                                                    |
| 84  | IOUT4    | O   | Data output terminal 4 for IEEE1394 link chip I/F.                                                                       |
| 85  | IOUT5    | O   | Data output terminal 5 for IEEE1394 link chip I/F.                                                                       |
| 86  | VSIO     | -   | Ground for I/O.                                                                                                          |
| 87  | IANCO    | O   | Transmission information data output terminal for IEEE1394 link chip I/F.                                                |
| 88  | IFULL    | I   | Data transmission hold request signal input terminal for IEEE1394 link chip I/F.                                         |
| 89  | IEMPTY   | I   | High speed transmission request signal input terminal for IEEE1394 link chip I/F.                                        |
| 90  | VDIO     | -   | +3.3V Power for I/O.                                                                                                     |
| 91  | IFRM     | O   | Frame reference signal output terminal for IEEE1394 link chip I/F.                                                       |
| 92  | IOUTE    | O   | Enable signal output terminal for IEEE1394 link chip I/F.                                                                |
| 93  | IBCK     | O   | Data transmission clock output terminal for IEEE1394 link chip I/F.                                                      |
| 94  | VSC      | -   | Ground for CORE.                                                                                                         |
| 95  | TESTI    | I   | TEST input terminal. It fixed to "H" potential.                                                                          |
| 96  | TESTI    | I   | TEST input terminal. It fixed to "L" potential.                                                                          |
| 97  | TESTI    | Ipu | TEST input terminal. It fixed to "H" potential.                                                                          |
| 98  | TESTO    | O   | TEST output terminal. (open)                                                                                             |
| 99  | VDC      | -   | +2.5V Power for CORE.                                                                                                    |
| 100 | TESTI    | I   | TEST input terminal. It fixed to "L" potential.                                                                          |
| 101 | TESTI    | I   | TEST input terminal. It fixed to "L" potential.                                                                          |
| 102 | TESTI    | I   | TEST input terminal. It fixed to "L" potential.                                                                          |
| 103 | TESTI    | I   | TEST input terminal. It fixed to "L" potential.                                                                          |
| 104 | TESTI    | I   | TEST input terminal. It fixed to "L" potential.                                                                          |
| 105 | TESTI    | I   | TEST input terminal. It fixed to "L" potential.                                                                          |
| 106 | VSIO     | -   | Ground for I/O.                                                                                                          |
| 107 | TESTI    | I   | TEST input terminal. It fixed to "L" potential.                                                                          |
| 108 | TESTI    | I   | TEST input terminal. It fixed to "L" potential.                                                                          |
| 109 | TESTI    | I   | TEST input terminal. It fixed to "L" potential.                                                                          |
| 110 | VDIO     | -   | +3.3V Power for I/O.                                                                                                     |
| 111 | WAD0     | I   | External A/D data input terminal(LSB) for PSP physical disc mark detection.                                              |
| 112 | WAD1     | I   | External A/D data input terminal for PSP physical disc mark detection.                                                   |
| 113 | WAD2     | I   | External A/D data input terminal for PSP physical disc mark detection.                                                   |
| 114 | WAD3     | I   | External A/D data input terminal for PSP physical disc mark detection.                                                   |
| 115 | VSIO     | -   | Ground for I/O.                                                                                                          |
| 116 | VSC      | -   | Ground for CORE.                                                                                                         |
| 117 | WAD4     | I   | External A/D data input terminal for PSP physical disc mark detection.                                                   |
| 118 | WAD5     | I   | External A/D data input terminal for PSP physical disc mark detection.                                                   |
| 119 | WAD6     | I   | External A/D data input terminal for PSP physical disc mark detection.                                                   |
| 120 | WAD7     | I   | External A/D data input terminal(MSB) for PSP physical disc mark detection.                                              |
| 121 | VDC      | -   | +2.5V Power for CORE.                                                                                                    |
| 122 | TESTI    | I   | TEST input terminal. It fixed to "L" potential.                                                                          |

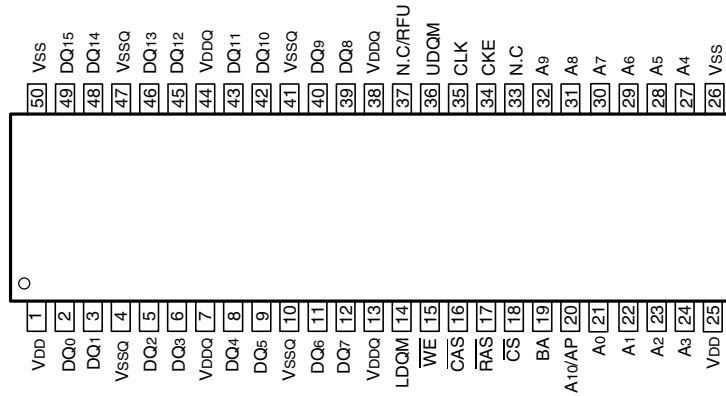
**IC401: CXD2753R**

| No. | Pin Name | I/O | Functions                                                                         |
|-----|----------|-----|-----------------------------------------------------------------------------------|
| 123 | WCK      | I   | Operation clock for PSP physical disc mark detection.                             |
| 124 | WAVDD    | -   | +2.5V Power. A/D Power supply for PSP physical disc mark detection.               |
| 125 | WAVDD    | -   | +2.5V Power. A/D Power supply for PSP physical disc mark detection.               |
| 126 | WARFI    | Ai  | Analog RF signal input terminal for PSP physical disc mark detection.             |
| 127 | WAVRB    | Ai  | A/D bottom reference terminal for PSP physical disc mark detection.               |
| 128 | WAVSS    | -   | A/D Ground terminal for PSP physical disc mark detection.                         |
| 129 | WAVSS    | -   | A/D Ground terminal for PSP physical disc mark detection.                         |
| 130 | VSIO     | -   | Ground for I/O.                                                                   |
| 131 | DQ7      | I/O | SDRAM data input/output terminal. (MSB)                                           |
| 132 | DQ6      | I/O | SDRAM data input/output terminal.                                                 |
| 133 | DQ5      | I/O | SDRAM data input/output terminal.                                                 |
| 134 | DQ4      | I/O | SDRAM data input/output terminal.                                                 |
| 135 | VDIO     | -   | +3.3V Power for I/O.                                                              |
| 136 | DQ3      | I/O | SDRAM data input/output terminal.                                                 |
| 137 | DQ2      | I/O | SDRAM data input/output terminal.                                                 |
| 138 | DQ1      | I/O | SDRAM data input/output terminal.                                                 |
| 139 | DQ0      | I/O | SDRAM data input/output terminal. (LSB)                                           |
| 140 | VSIO     | -   | Ground for I/O.                                                                   |
| 141 | DCLK     | O   | Clock output terminal for SDRAM.                                                  |
| 142 | DCKE     | O   | Clock enable output terminal for SDRAM.                                           |
| 143 | XWE      | O   | Write enable output terminal for SDRAM.                                           |
| 144 | XCAS     | O   | Column address strobe output terminal for SDRAM.                                  |
| 145 | XRAS     | O   | Row address strobe output terminal for SDRAM.                                     |
| 146 | VDIO     | -   | +3.3V Power for I/O.                                                              |
| 147 | TESTO    | O   | Output terminal for TEST. (open)                                                  |
| 148 | A11      | O   | Address output terminal for SDRAM. (MSB)                                          |
| 149 | A10      | O   | Address output terminal for SDRAM.                                                |
| 150 | VSC      | -   | Ground for CORE.                                                                  |
| 151 | A9       | O   | Address output terminal for SDRAM.                                                |
| 152 | A8       | O   | Address output terminal for SDRAM.                                                |
| 153 | VDC      | -   | +2.5V Power for CORE.                                                             |
| 154 | A7       | O   | Address output terminal for SDRAM.                                                |
| 155 | A6       | O   | Address output terminal for SDRAM.                                                |
| 156 | A5       | O   | Address output terminal for SDRAM.                                                |
| 157 | A4       | O   | Address output terminal for SDRAM.                                                |
| 158 | VSIO     | -   | Ground for I/O.                                                                   |
| 159 | A3       | O   | Address output terminal for SDRAM.                                                |
| 160 | A2       | O   | Address output terminal for SDRAM.                                                |
| 161 | A1       | O   | Address output terminal for SDRAM.                                                |
| 162 | A0       | O   | Address output terminal for SDRAM. (LSB)                                          |
| 163 | VDIO     | -   | +3.3V Power for I/O.                                                              |
| 164 | XSRQ     | O   | Output terminal of the Data Request signal inputted a front-end processor.        |
| 165 | XSHD     | I   | Input terminal of the header Flag outputted from a front-end processor.           |
| 166 | SDCK     | I   | Input terminal of the data conveyance Clock outputted from a front-end processor. |
| 167 | XASK     | I   | Input terminal of the data valid Flag outputted from a front-end processor.       |
| 168 | SDEF     | I   | Input terminal of the error Flag outputted from a front-end processor.            |
| 169 | SD0      | I   | Input terminal of the stream Data outputted from a front-end processor.           |
| 170 | SD1      | I   | Input terminal of the stream Data outputted from a front-end processor.           |
| 171 | SD2      | I   | Input terminal of the stream Data outputted from a front-end processor.           |
| 172 | SD3      | I   | Input terminal of the stream Data outputted from a front-end processor.           |
| 173 | SD4      | I   | Input terminal of the stream Data outputted from a front-end processor.           |
| 174 | SD5      | I   | Input terminal of the stream Data outputted from a front-end processor.           |
| 175 | SD6      | I   | Input terminal of the stream Data outputted from a front-end processor.           |
| 176 | SD7      | I   | Input terminal of the stream Data outputted from a front-end processor.           |

Ipu: Pull-up input   Ipd: Pull-down input   Ai: Analog input



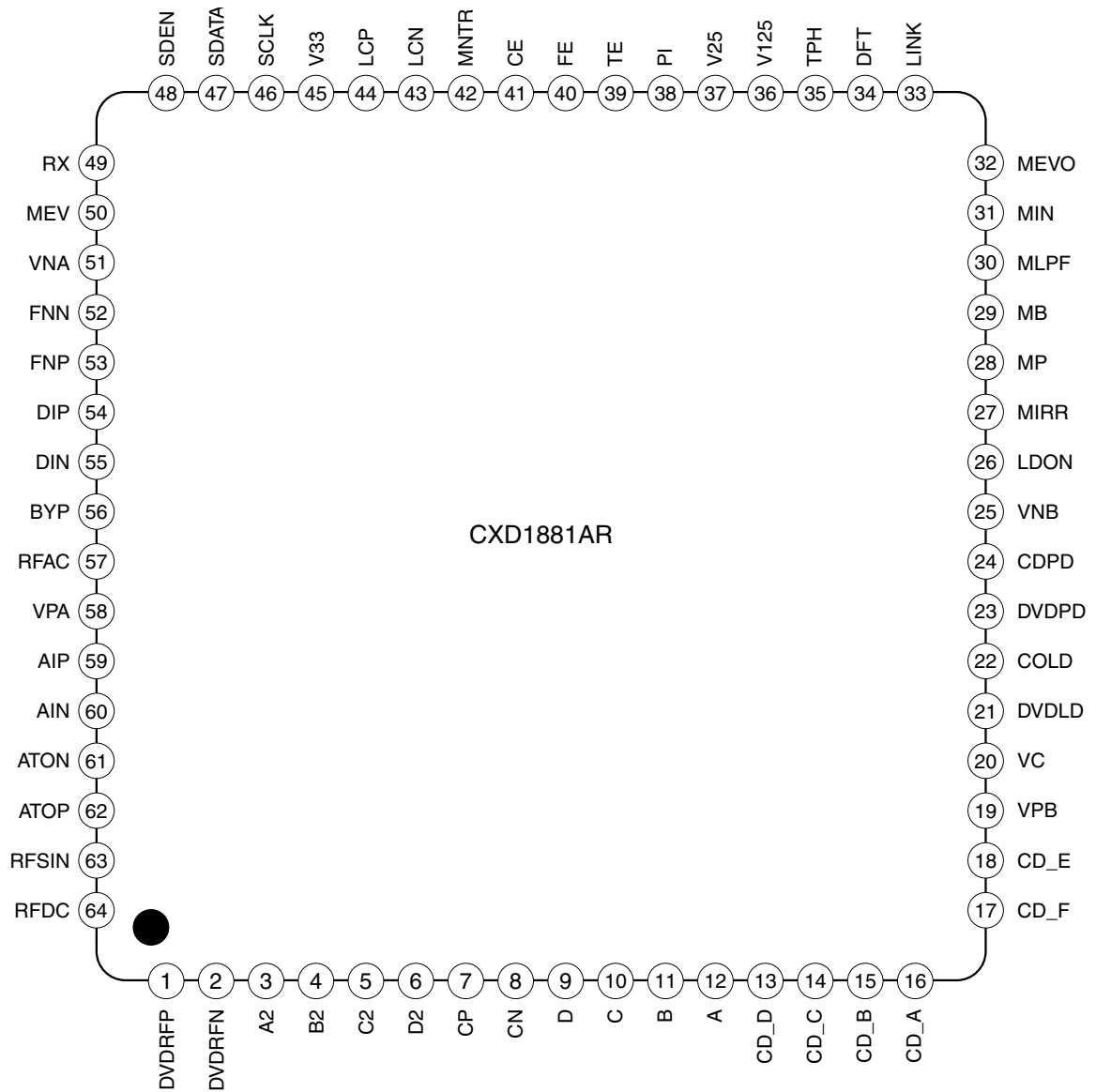
## IC402: 16M SDRAM (EM636165TS-7 etc)

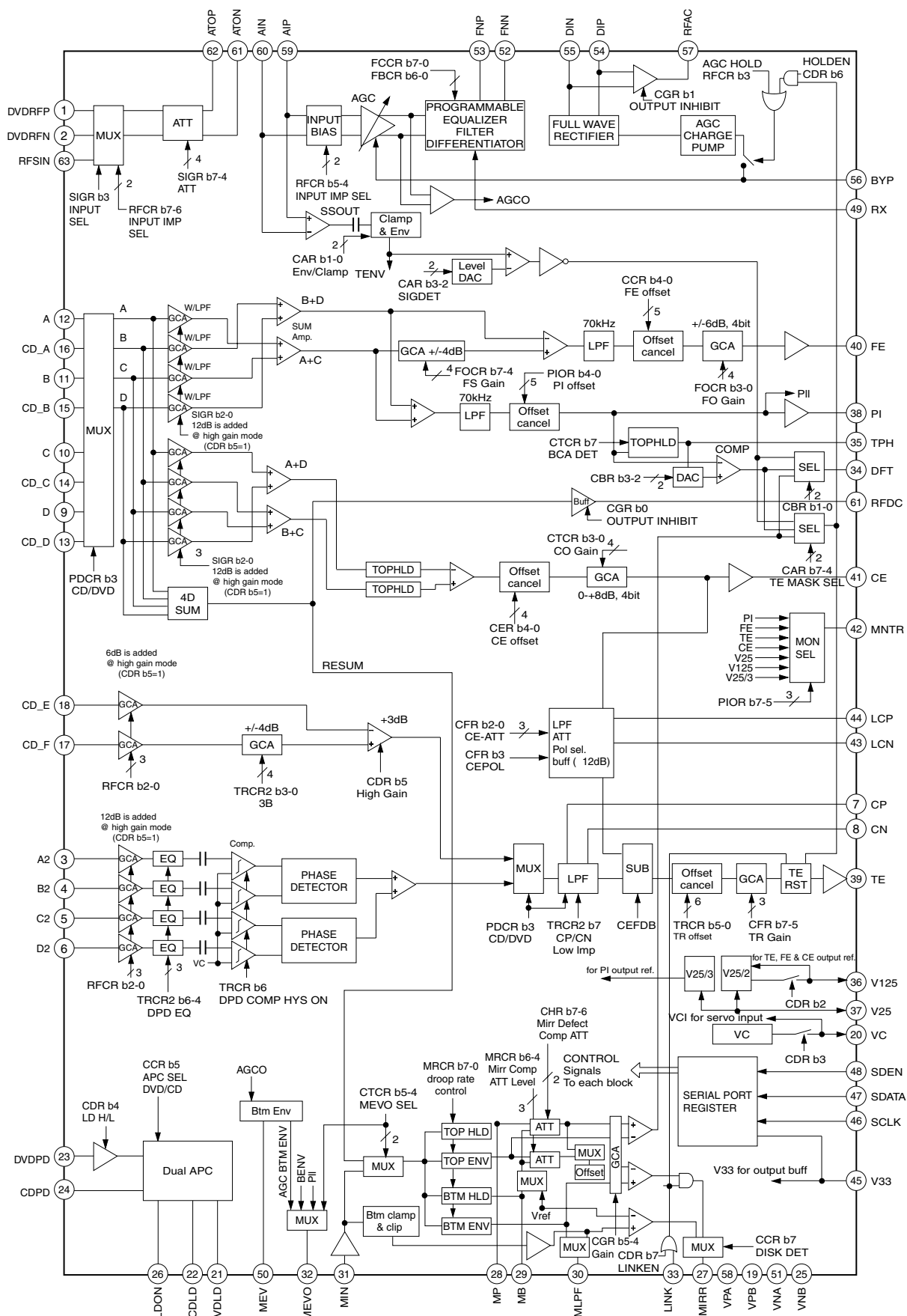


### Terminal Function

| Pin No. | Pin Name | Symbol                   | Function                                                                                         |
|---------|----------|--------------------------|--------------------------------------------------------------------------------------------------|
| 1       | VDD      | Power Supply/Ground      | Power and ground for the input buffer and the core logic                                         |
| 2       | DQ0      | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 3       | DQ1      | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 4       | VSSQ     | Data Output Power/Ground | Isolated power supply and ground for the output buffer                                           |
| 5       | DQ2      | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 6       | DQ3      | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 7       | VDDQ     | Data Output Power/Ground | Isolated power supply and ground for the output buffer                                           |
| 8       | DQ4      | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 9       | DQ5      | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 10      | VSSQ     | Data Output Power/Ground | Isolated power supply and ground for the output buffer                                           |
| 11      | DQ6      | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 12      | DQ7      | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 13      | VDDQ     | Data Output Power/Ground | Isolated power supply and ground for the output buffer                                           |
| 14      | LDQM     | Data Input/Output Mask   | Blocks data input when active                                                                    |
| 15      | WE       | Write Enable             | Enables write operation and row precharge                                                        |
| 16      | CAS      | Column Address Strobe    | Latches column address on the positive going edge of the CLK at low                              |
| 17      | RAS      | Row Address Strobe       | Latches row address on the positive going edge of the CLK at low                                 |
| 18      | CS       | Chip Select              | Disables or enables device operation by masking or enabling all inputs except CLK, CKE, and LDQM |
| 19      | BA       | Bank Select Address      | Selects bank to be activated during row address latch time                                       |
| 20      | A10/AP   | Address                  | Row/column addresses are multiplexed on the same pin                                             |
| 21      | A0       | Address                  | Row/column addresses are multiplexed on the same pin                                             |
| 22      | A1       | Address                  | Row/column addresses are multiplexed on the same pin                                             |
| 23      | A2       | Address                  | Row/column addresses are multiplexed on the same pin                                             |
| 24      | A3       | Address                  | Row/column addresses are multiplexed on the same pin                                             |
| 25      | VDD      | Power Supply/Ground      | Power and ground for the input buffer and the core logic                                         |
| 26      | VSS      | Power Supply/Ground      | Power and ground for the input buffer and the core logic                                         |
| 27      | A4       | Address                  | Row/column addresses are multiplexed on the same pin                                             |
| 28      | A5       | Address                  | Row/column addresses are multiplexed on the same pin                                             |
| 29      | A6       | Address                  | Row/column addresses are multiplexed on the same pin                                             |
| 30      | A7       | Address                  | Row/column addresses are multiplexed on the same pin                                             |
| 31      | A8       | Address                  | Row/column addresses are multiplexed on the same pin                                             |
| 32      | A9       | Address                  | Row/column addresses are multiplexed on the same pin                                             |
| 33      | N.C      | No Connection            | No connect pin                                                                                   |
| 34      | CKE      | Clock Enable             | Masks system clock to freeze operation from the next clock cycle                                 |
| 35      | CLK      | System Clock             | Active on the positive going edge to sample all inputs                                           |
| 36      | UDQM     | Data Input/Output Mask   | Blocks data input when active                                                                    |
| 37      | N.C/RFU  | NC/Reserved              | No connect pin                                                                                   |
| 38      | VDDQ     | Data Output Power/Ground | Isolated power supply and ground for the output buffer                                           |
| 39      | DQ8      | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 40      | DQ9      | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 41      | VSSQ     | Data Output Power/Ground | Isolated power supply and ground for the output buffer                                           |
| 42      | DQ10     | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 43      | DQ11     | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 44      | VDDQ     | Data Output Power/Ground | Isolated power supply and ground for the output buffer                                           |
| 45      | DQ12     | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 46      | DQ13     | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 47      | VSSQ     | Data Output Power/Ground | Isolated power supply and ground for the output buffer                                           |
| 48      | DQ14     | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 49      | DQ15     | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 50      | VSS      | Power Supply/Ground      | Power and ground for the input buffer and the core logic                                         |

# IC501: CDX1881AR





## IC501: CDX1881AR

### Power Supply Pins

| Name | I/O | Function                         |
|------|-----|----------------------------------|
| VPA  | -   | Power for RF and serial port     |
| VPB  | -   | Power for servo                  |
| VNA  | -   | GND for RF and serial port       |
| VNB  | -   | GND for servo                    |
| V33  | -   | Power for output buffer          |
| V25  | -   | Reference Power for servo output |

### Input Pins

| Name           | I/O | Function                          |
|----------------|-----|-----------------------------------|
| DVDRFP, DVDRFN | I   | RF signal input                   |
| RFSIN          | I   | RF signal input                   |
| AIP,AIN        | I   | AGC amp. input                    |
| DIP,DIN        | I   | Analog input for RF single buffer |
| A,B,C,D        | I   | Photo detector interface input    |
| A2, B2, C2, D2 | I   | Photo detector interface input    |
| CD_A, B, C, D  | I   | CD photo detector interface input |
| CD_E, F        | I   | CD photo detector interface input |
| MIN            | I   | RF signal input for mirror        |
| DVDPD          | I   | APC input                         |
| CDPD           | I   | APC input                         |
| LDON           | I   | APC input ON/OFF (L:Open)         |
|                | I   | Link signal input (L:Open)        |
|                | O   | Mirror monitor output             |

### Output Pins

| Name      | I/O | Function                       |
|-----------|-----|--------------------------------|
| ATOP,ATON | O   | Differential attenuator output |
| FNP,FNN   | O   | Differential normal output     |
| RFAC      | O   | Single end normal output       |
| RFDC      | O   | RF signal output               |
| FE        | O   | Focus error signal output      |
| TE        | O   | Tracking error signal output   |
| CE        | O   | Center error signal output     |
| MEVO      | O   | RFDDC bottom envelope output   |
| DFT       | O   | Defect output                  |
| MIRR      | O   | Mirror detected output         |
| PI        | O   | Pull-in signal output          |
| DVDLD     | O   | APC output                     |
| CDLD      | O   | APC output                     |
| MNTR      | O   | Monitor output                 |

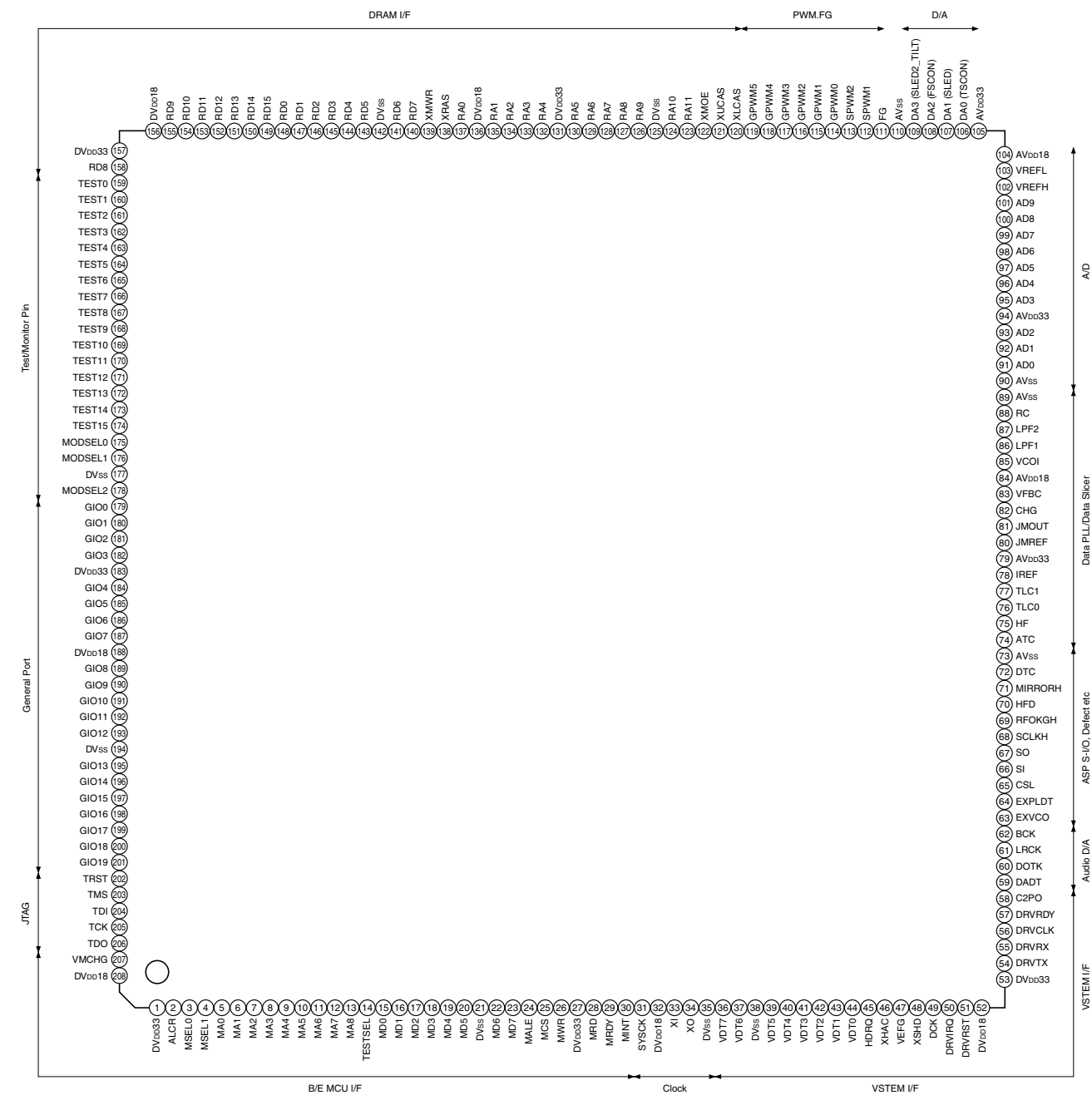
### Analog Pins

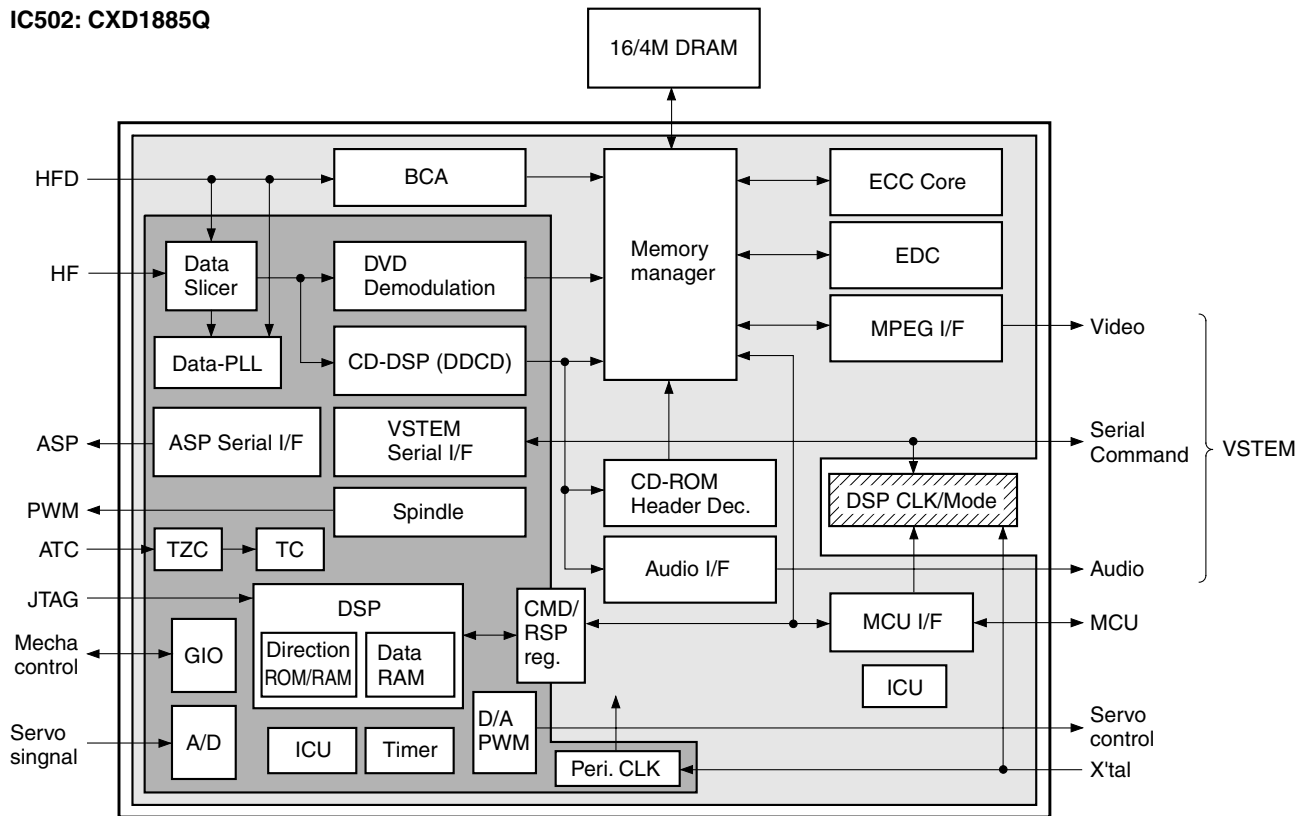
| Name | I/O | Function                                         |
|------|-----|--------------------------------------------------|
| BYP  | -   | RF AGC integration capacitor connecting terminal |
| CP   | -   | Differential phase tracking LPF terminal         |
| CN   | -   | Differential phase tracking LPF terminal         |
| LCP  | -   | Lens shift offset cancel LPF terminal            |
| LCN  | -   | Lens shift offset cancel LPF terminal            |
| MP   | -   | MIRR top hold terminal                           |
| MB   | -   | MIRR bottom hold terminal                        |
| MEV  | -   | RFDC bottom envelope terminal                    |
| MLPF | -   | Mirror LPF terminal                              |
| TPH  | -   | PI top hold terminal                             |
| VC   | -   | Reference voltage output                         |
| V125 | -   | Reference voltage output                         |
| RX   | -   | Reference resistor input                         |

### Serial Port Pins

| Name  | I/O | Function           |
|-------|-----|--------------------|
| SDEN  | I   | Serial data enable |
| SDATA | I/O | Serial data        |
| SCLK  | I   | Serial clock       |

IC502: CXD1885Q



**IC502: CXD1885Q**


(A/D : Analog/Digital, PU : Pull-up, PD : Pull-down, SMT=Schmitt )

| No. | Terminal Name | I/O | A/D | Classification | Function                                          | PU | PD | SMT |
|-----|---------------|-----|-----|----------------|---------------------------------------------------|----|----|-----|
| 1   | DVDD33        | P   |     | VDD & GND      | Digital 3.3V Power for I/O.                       |    |    |     |
| 2   | ALCR          | I   | D   | MCU I/F        | Chip select input. (L: Reset)                     | *  |    | *   |
| 3   | MSEL0         | I   | D   | MCU I/F        | MCU I/F mode select 0.                            |    |    | *   |
| 4   | MSEL1         | I   | D   | MCU I/F        | MCU I/F mode select 1.                            |    |    | *   |
| 5   | MA0           | I/O | D   | MCU I/F        | MCU Address input 0 / data I/O 0 <LSB>.           |    |    | *   |
| 6   | MA1           | I/O | D   | MCU I/F        | MCU Address input 1 / data I/O 1.                 |    |    | *   |
| 7   | MA2           | I/O | D   | MCU I/F        | MCU Address input 2 / data I/O 2.                 |    |    | *   |
| 8   | MA3           | I/O | D   | MCU I/F        | MCU Address input 3 / data I/O 3.                 |    |    | *   |
| 9   | MA4           | I/O | D   | MCU I/F        | MCU Address input 4 / data I/O 4.                 |    |    | *   |
| 10  | MA5           | I/O | D   | MCU I/F        | MCU Address input 5 / data I/O 5.                 |    |    | *   |
| 11  | MA6           | I/O | D   | MCU I/F        | MCU Address input 6 / data I/O 6.                 |    |    | *   |
| 12  | MA7           | I/O | D   | MCU I/F        | MCU Address input 7 / data I/O 7.                 |    |    | *   |
| 13  | MA8           | I   | D   | MCU I/F        | MCU Address input 8 <MSB>.                        |    |    | *   |
| 14  | TESTSEL       | I   | D   | MCU I/F        | TEST Select input.                                |    |    | *   |
| 15  | MD0           | I/O | D   | MCU I/F        | MCU data I/O 0 <LSB>.                             |    |    | *   |
| 16  | MD1           | I/O | D   | MCU I/F        | MCU data I/O 1.                                   |    |    | *   |
| 17  | MD2           | I/O | D   | MCU I/F        | MCU data I/O 2.                                   |    |    | *   |
| 18  | MD3           | I/O | D   | MCU I/F        | MCU data I/O 3.                                   |    |    | *   |
| 19  | MD4           | I/O | D   | MCU I/F        | MCU data I/O 4.                                   |    |    | *   |
| 20  | MD5           | I/O | D   | MCU I/F        | MCU data I/O 5.                                   |    |    | *   |
| 21  | DVSS          | P   |     | VDD & GND      | Digital Ground.                                   |    |    |     |
| 22  | MD6           | I/O | D   | MCU I/F        | MCU data I/O 6.                                   |    |    | *   |
| 23  | MD7           | I/O | D   | MCU I/F        | MCU data I/O 7 <MSB>.                             |    |    | *   |
| 24  | MALE          | I   | D   | MCU I/F        | MCU Address latch signal input.                   |    |    | *   |
| 25  | MCS           | I   | D   | MCU I/F        | MCU Chip Select signal input.                     |    |    | *   |
| 26  | MWR           | I   | D   | MCU I/F        | MCU Write strobe signal.                          |    |    | *   |
| 27  | DVDD33        | P   |     | VDD & GND      | digital 3.3V Power. (for I/O )                    |    |    |     |
| 28  | MRD           | I   | D   | MCU I/F        | MCU Read Strobe signal.                           |    |    | *   |
| 29  | MRDY          | O   | D   | MCU I/F        | MCU Ready signal. (L: Wait)                       |    |    |     |
| 30  | MINT          | O   | D   | MCU I/F        | MCU Interrupt signal. (L: Interrupt request)      |    |    |     |
| 31  | SYSCK         | O   | D   | Clock          | Clock Monitor output.                             |    |    |     |
| 32  | DVDD18        | P   |     | VDD & GND      | Digital 1.8V Power. (Internal logic system power) |    |    |     |
| 33  | XI            | I   | D   | Clock          | Crystal oscillation input.                        |    |    |     |
| 34  | XO            | O   | D   | Clock          | Crystal oscillation output.                       |    |    |     |
| 35  | DVSS          | P   |     | VDD & GND      | Digital Ground.                                   |    |    |     |
| 36  | VD7           | O   | D   | VSTEM A/V      | MPEG data output 7.                               |    |    |     |
| 37  | VD6           | O   | D   | VSTEM A/V      | MPEG data output 6.                               |    |    |     |

**IC502: CXD1885Q**

| No. | Terminal Name | I/O | A/D | Classification | Function                                                         | PU | PD | SMT |
|-----|---------------|-----|-----|----------------|------------------------------------------------------------------|----|----|-----|
| 38  | DVSS          | P   |     | VDD & GND      | Digital Ground.                                                  |    |    |     |
| 39  | VD5           | O   | D   | VSTEM A/V      | MPEG data output 5.                                              |    |    |     |
| 40  | VD4           | O   | D   | VSTEM A/V      | MPEG data output 4.                                              |    |    |     |
| 41  | VD3           | O   | D   | VSTEM A/V      | MPEG data output 3.                                              |    |    |     |
| 42  | VD2           | O   | D   | VSTEM A/V      | MPEG data output 2.                                              |    |    |     |
| 43  | VD1           | O   | D   | VSTEM A/V      | MPEG data output 1.                                              |    |    |     |
| 44  | VD0           | O   | D   | VSTEM A/V      | MPEG data output 0.                                              |    |    |     |
| 45  | HDRQ          | I   | D   | VSTEM A/V      | MPEG data Request input.                                         | *  |    |     |
| 46  | XHAC          | O   | D   | VSTEM A/V      | Data Valid output.                                               |    |    |     |
| 47  | VEFG          | O   | D   | VSTEM A/V      | ECC Error-sector Flag output. (L: error sector)                  |    |    |     |
| 48  | XSHD          | O   | D   | VSTEM A/V      | DVD Sector Head Flag output.                                     |    |    |     |
| 49  | DCK           | O   | D   | VSTEM A/V      | Data Strobe output.                                              |    |    |     |
| 50  | DRVIRQ        | O   | D   | VSTEM Command  | Interrupt Request output for Host. (L: interruption is demanded) |    |    |     |
| 51  | DRVIRST       | I   | D   | VSTEM Command  | Drive H/W Reset input. (L: reset)                                | *  |    | *   |
| 52  | DVDD18        | P   |     | VDD & GND      | Digital 1.8V power for Internal logic system.                    |    |    |     |
| 53  | DVDD33        | P   |     | VDD & GND      | Digital 3.3V Power for I/O.                                      |    |    |     |
| 54  | DRVTX         | O   | D   | VSTEM Command  | Transmitting serial data output to Host.                         |    |    |     |
| 55  | DRVIRX        | I   | D   | VSTEM Command  | Reception serial data input from Host.                           |    |    |     |
| 56  | DRVCLK        | I   | D   | VSTEM Command  | Clock input from Host.                                           |    |    | *   |
| 57  | DRVIRDY       | O   | D   | VSTEM Command  | Drive Ready signal output. (L: ready)                            |    |    |     |
| 58  | C2PO          | O   | D   | Audio I/F      | CD-DSP C2 Pointer output.                                        |    |    |     |
| 59  | DADT          | O   | D   | Audio I/F      | Audio serial data output.                                        |    |    |     |
| 60  | DOTX          | O   | D   | Audio I/F      | Digital audio output.                                            |    |    |     |
| 61  | LRCK          | O   | D   | Audio I/F      | L/R Clock output.                                                |    |    |     |
| 62  | BCK           | O   | D   | Audio I/F      | Audio Bit Clock output.                                          |    |    |     |
| 63  | EXVCO         | I   | D   | TEST/Monitor   | External Channel clock input.                                    |    |    |     |
| 64  | EXPLDT        | I   | D   | TEST/Monitor   | External RF data input. (Logic level)                            |    |    |     |
| 65  | CSL           | O   | D   | ASP I/F        | SIO for RF signal processing LSI control. Latch signal output.   |    |    |     |
| 66  | SI            | I   | D   | ASP I/F        | SIO for RF signal processing LSI control. Serial data input.     |    |    |     |
| 67  | SO            | O   | D   | ASP I/F        | SIO for RF signal processing LSI control. Serial data output.    |    |    |     |
| 68  | SCLKH         | O   | D   | ASP I/F        | SIO for RF signal processing LSI control. Serial clock output.   |    |    |     |
| 69  | RFOKGH        | I   | D   | ASP I/F        | RF O.K. Signal input.                                            |    |    | *   |
| 70  | HFD           | I   | D   | ASP I/F        | RF lack Signal input.                                            |    |    | *   |
| 71  | MIRRORH       | I   | D   | ASP I/F        | Mirror detected signal input.(H: Mirror detected)                |    |    | *   |
| 72  | DTC           | I   | D   | ASP I/F        | Track cross signal input. (Logic level input)                    |    |    | *   |
| 73  | AVSS          | P   |     | VDD & GND      | Analog Ground.                                                   |    |    |     |
| 74  | ATC           | I   | A   | Data PLL       | Track Cross signal input. (Analog level input)                   |    |    |     |
| 75  | HF            | I   | A   | Data PLL       | RF signal input.                                                 |    |    |     |
| 76  | TLC0          | O   | A   | Data PLL       | Asymmetry Charge-pump output 0.                                  |    |    |     |
| 77  | TLC1          | O   | A   | Data PLL       | Asymmetry Charge-pump output 1                                   |    |    |     |
| 78  | IREF          | I   | A   | Data PLL       | Reference current setting terminal for Asymmetry Circuit.        |    |    |     |
| 79  | AVDD33        | P   |     | VDD & GND      | Analog 3.3V Power.                                               |    |    |     |
| 80  | JMREF         | I   | A   | Data PLL       | Reference current setting terminal for Jitter Monitor            |    |    |     |
| 81  | JMOUT         | O   | A   | Data PLL       | Jitter Monitor output.                                           |    |    |     |
| 82  | CHG           | I   | A   | Data PLL       | Reference current setting terminal for data PLL.                 |    |    |     |
| 83  | VFBC          | I   | A   | Data PLL       | VCO offset frequency setting terminal for data PLL.              |    |    |     |
| 84  | AVDD18        | P   |     | VDD & GND      | Analog 1.8V Power.                                               |    |    |     |
| 85  | VCOI          | I   | A   | Data PLL       | VCO Control voltage input terminal for data PLL.                 |    |    |     |
| 86  | LPF1          | O   | A   | Data PLL       | VCO Loop-filter connection terminal 1 for data PLL.              |    |    |     |
| 87  | LPF2          | O   | A   | Data PLL       | VCO Loop-filter connection terminal 2 for data PLL               |    |    |     |
| 88  | RC            | I   | A   | Data PLL       | VCO gain setting terminal for data PLL.                          |    |    |     |
| 89  | AVSS          | P   |     | VDD & GND      | Analog Ground.                                                   |    |    |     |
| 90  | AVSS          | P   |     | VDD & GND      | Analog Ground.                                                   |    |    |     |
| 91  | AD0           | I   | A   | ADC            | AD0 Input.                                                       |    |    |     |
| 92  | AD1           | I   | A   | ADC            | AD1 Input.                                                       |    |    |     |
| 93  | AD2           | I   | A   | ADC            | AD2 Input.                                                       |    |    |     |
| 94  | AVDD33        | P   |     | VDD & GND      | Analog 3.3V Power.                                               |    |    |     |
| 95  | AD3           | I   | A   | ADC            | AD3 Input.                                                       |    |    |     |
| 96  | AD4           | I   | A   | ADC            | AD4 Input.                                                       |    |    |     |
| 97  | AD5           | I   | A   | ADC            | AD5 Input.                                                       |    |    |     |
| 98  | AD6           | I   | A   | ADC            | AD6 Input.                                                       |    |    |     |
| 99  | AD7           | I   | A   | ADC            | AD7 Input.                                                       |    |    |     |
| 100 | AD8           | I   | A   | ADC            | AD8 Input.                                                       |    |    |     |
| 101 | AD9           | I   | A   | ADC            | AD9 Input.                                                       |    |    |     |

**IC502: CXD1885Q**

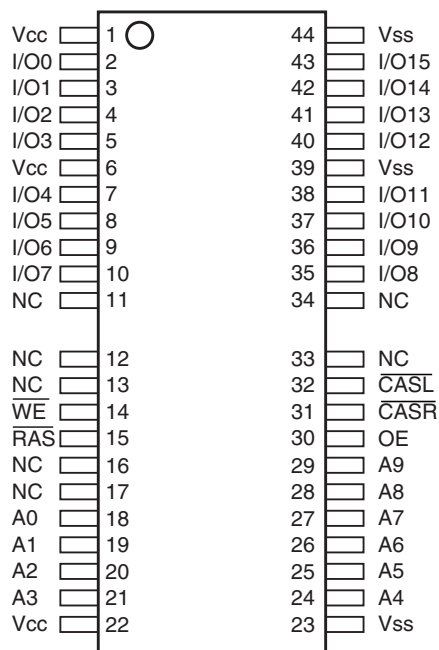
| No. | Terminal Name       | I/O | A/D | Classification | Function                                                                                              | PU | PD | SMT |
|-----|---------------------|-----|-----|----------------|-------------------------------------------------------------------------------------------------------|----|----|-----|
| 102 | VREFH               | I/O | A   | ADC            | Max Reference Voltage input for ADC.<br>(Internal Reference Voltage mode, it will be an output state) |    |    |     |
| 103 | VREFL               | I/O | A   | ADC            | Min Reference Voltage input for ADC.<br>(Internal Reference Voltage mode, it will be an output state) |    |    |     |
| 104 | AVDD18              | P   |     | VDD & GND      | Analog 1.8V Power.                                                                                    |    |    |     |
| 105 | AVDD33              | P   |     | VDD & GND      | Analog 3.3V Power.                                                                                    |    |    |     |
| 106 | DA0 (TSCON)         | O   | A   | DAC            | DA0 output. (Track Servo output)                                                                      |    |    |     |
| 107 | DA1 (SLED)          | O   | A   | DAC            | DA1 output. (Sled Servo output)                                                                       |    |    |     |
| 108 | DA2 (FSCON)         | O   | A   | DAC            | DA2 output. (Focus Servo output)                                                                      |    |    |     |
| 109 | DA3<br>(SLED2_TILT) | O   | A   | DAC            | DA3 output. (Sled Servo / Tilt Servo output)                                                          |    |    |     |
| 110 | AVSS                | P   |     | VDD & GND      | Analog Ground                                                                                         |    |    |     |
| 111 | FG                  | I   | D   | SPM            | FG signal input.                                                                                      |    |    | *   |
| 112 | SPWM1               | O   | D   | SPM            | Spindle motor PWM output 1.                                                                           |    |    |     |
| 113 | SPWM2               | O   | D   | SPM            | Spindle motor PWM output 2.                                                                           |    |    |     |
| 114 | GPWM0               | O   | D   | General PWM    | Multi-purpose PWM output 0.                                                                           |    |    |     |
| 115 | GPWM1               | O   | D   | General PWM    | Multi-purpose PWM output 1.                                                                           |    |    |     |
| 116 | GPWM2               | O   | D   | General PWM    | Multi-purpose PWM output 2.                                                                           |    |    |     |
| 117 | GPWM3               | O   | D   | General PWM    | Multi-purpose PWM output 3.                                                                           |    |    |     |
| 118 | GPWM4               | O   | D   | General PWM    | Multi-purpose PWM output 4.                                                                           |    |    |     |
| 119 | GPWM5               | O   | D   | General PWM    | Multi-purpose PWM output 5.                                                                           |    |    |     |
| 120 | XLCAS               | O   | D   | DRAM I/F       | DRAM LCAS output. (Low-Byte row address strobe output)                                                |    |    |     |
| 121 | XUCAS               | O   | D   | DRAM I/F       | DRAM UCAS output. (Upper-Byte row address strobe output)                                              |    |    |     |
| 122 | XMOE                | O   | D   | DRAM I/F       | DRAM output enable.                                                                                   |    |    |     |
| 123 | RA11                | O   | D   | DRAM I/F       | DRAM address output terminal 11.                                                                      |    |    |     |
| 124 | RA10                | O   | D   | DRAM I/F       | DRAM address output terminal 10.                                                                      |    |    |     |
| 125 | DVSS                | P   |     | VDD & GND      | Digital Ground.                                                                                       |    |    |     |
| 126 | RA9                 | O   | D   | DRAM I/F       | DRAM address output terminal 9.                                                                       |    |    |     |
| 127 | RA8                 | O   | D   | DRAM I/F       | DRAM address output terminal 8.                                                                       |    |    |     |
| 128 | RA7                 | O   | D   | DRAM I/F       | DRAM address output terminal 7.                                                                       |    |    |     |
| 129 | RA6                 | O   | D   | DRAM I/F       | DRAM address output terminal 6.                                                                       |    |    |     |
| 130 | RA5                 | O   | D   | DRAM I/F       | DRAM address output terminal 5.                                                                       |    |    |     |
| 131 | DVDD33              | P   |     | VDD & GND      | Digital 3.3V Power. (for I/O)                                                                         |    |    |     |
| 132 | RA4                 | O   | D   | DRAM I/F       | DRAM address output terminal 4.                                                                       |    |    |     |
| 133 | RA3                 | O   | D   | DRAM I/F       | DRAM address output terminal 3.                                                                       |    |    |     |
| 134 | RA2                 | O   | D   | DRAM I/F       | DRAM address output terminal 2.                                                                       |    |    |     |
| 135 | RA1                 | O   | D   | DRAM I/F       | DRAM address output terminal 1.                                                                       |    |    |     |
| 136 | DVDD18              | P   |     | VDD & GND      | Digital 1.8V Power. (for Internal Logic power)                                                        |    |    |     |
| 137 | RA0                 | O   | D   | DRAM I/F       | DRAM address output terminal 0.                                                                       |    |    |     |
| 138 | XRAS                | O   | D   | DRAM I/F       | DRAM RAS output. (Column address strobe output)                                                       |    |    |     |
| 139 | XMWR                | O   | D   | DRAM I/F       | DRAM Write enable.                                                                                    |    |    |     |
| 140 | RD7                 | I/O | D   | DRAM I/F       | DRAM data input/output terminal 7.                                                                    | *  |    |     |
| 141 | RD6                 | I/O | D   | DRAM I/F       | DRAM data input/output terminal 6.                                                                    | *  |    |     |
| 142 | DVSS                | P   |     | VDD & GND      | Digital Ground.                                                                                       |    |    |     |
| 143 | RD5                 | I/O | D   | DRAM I/F       | DRAM data input/output terminal 5.                                                                    | *  |    |     |
| 144 | RD4                 | I/O | D   | DRAM I/F       | DRAM data input/output terminal 4.                                                                    | *  |    |     |
| 145 | RD3                 | I/O | D   | DRAM I/F       | DRAM data input/output terminal 3.                                                                    | *  |    |     |
| 146 | RD2                 | I/O | D   | DRAM I/F       | DRAM data input/output terminal 2.                                                                    | *  |    |     |
| 147 | RD1                 | I/O | D   | DRAM I/F       | DRAM data input/output terminal 1.                                                                    | *  |    |     |
| 148 | RD0                 | I/O | D   | DRAM I/F       | DRAM data input/output terminal 0.                                                                    | *  |    |     |
| 149 | RD15                | I/O | D   | DRAM I/F       | DRAM data input/output terminal 15.                                                                   | *  |    |     |
| 150 | RD14                | I/O | D   | DRAM I/F       | DRAM data input/output terminal 14.                                                                   | *  |    |     |
| 151 | RD13                | I/O | D   | DRAM I/F       | DRAM data input/output terminal 13.                                                                   | *  |    |     |
| 152 | RD12                | I/O | D   | DRAM I/F       | DRAM data input/output terminal 12.                                                                   | *  |    |     |
| 153 | RD11                | I/O | D   | DRAM I/F       | DRAM data input/output terminal 11.                                                                   | *  |    |     |
| 154 | RD10                | I/O | D   | DRAM I/F       | DRAM data input/output terminal 10.                                                                   | *  |    |     |
| 155 | RD9                 | I/O | D   | DRAM I/F       | DRAM data input/output terminal 9.                                                                    | *  |    |     |
| 156 | DVDD18              | P   |     | VDD & GND      | Digital 1.8V Power. (for internal Logic system)                                                       |    |    |     |
| 157 | DVDD33              | P   |     | VDD & GND      | Digital 3.3V power for I/O.                                                                           |    |    |     |
| 158 | RD8                 | I/O | D   | DRAM I/F       | DRAM data input/output terminal 8.                                                                    | *  |    |     |
| 159 | TEST0               | O   | D   | TEST/Monitor   | TEST I/O 0.                                                                                           |    |    |     |
| 160 | TEST1               | O   | D   | TEST/Monitor   | TEST I/O 1.                                                                                           |    |    |     |
| 161 | TEST2               | O   | D   | TEST/Monitor   | TEST I/O 2.                                                                                           |    |    |     |
| 162 | TEST3               | O   | D   | TEST/Monitor   | TEST I/O 3.                                                                                           |    |    |     |
| 163 | TEST4               | O   | D   | TEST/Monitor   | TEST I/O 4.                                                                                           |    |    |     |



**IC502: CXD1885Q**

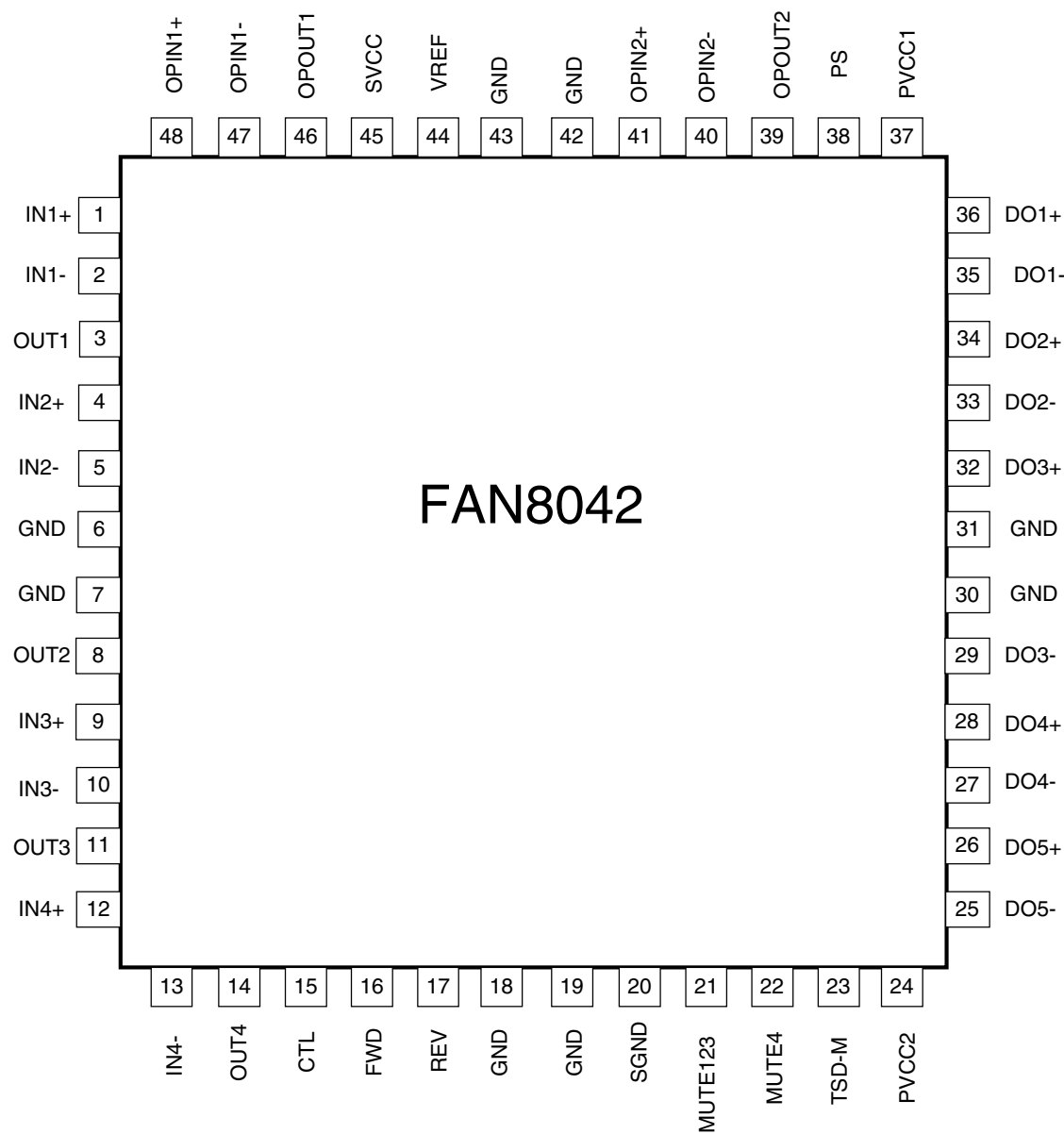
| No. | Terminal Name | I/O | A/D | Classification | Function                                                                                                       | PU | PD | SMT |
|-----|---------------|-----|-----|----------------|----------------------------------------------------------------------------------------------------------------|----|----|-----|
| 164 | TEST5         | O   | D   | TEST/Monitor   | TEST I/O 5.                                                                                                    |    |    |     |
| 165 | TEST6         | O   | D   | TEST/Monitor   | TEST I/O 6.                                                                                                    |    |    |     |
| 166 | TEST7         | O   | D   | TEST/Monitor   | TEST I/O 7.                                                                                                    |    |    |     |
| 167 | TEST8         | O   | D   | TEST/Monitor   | TEST I/O 8.                                                                                                    |    |    |     |
| 168 | TEST9         | O   | D   | TEST/Monitor   | TEST I/O 9.                                                                                                    |    |    |     |
| 169 | TEST10        | O   | D   | TEST/Monitor   | TEST I/O 10.                                                                                                   |    |    |     |
| 170 | TEST11        | O   | D   | TEST/Monitor   | TEST I/O 11.                                                                                                   |    |    |     |
| 171 | TEST12        | O   | D   | TEST/Monitor   | TEST I/O 12.                                                                                                   |    |    |     |
| 172 | TEST13        | O   | D   | TEST/Monitor   | TEST I/O 13.                                                                                                   |    |    |     |
| 173 | TEST14        | O   | D   | TEST/Monitor   | TEST I/O 14.                                                                                                   |    |    |     |
| 174 | TEST15        | O   | D   | TEST/Monitor   | TEST I/O 15.                                                                                                   |    |    |     |
| 175 | MODSEL0       | I   | D   | TEST/Monitor   | TEST mode select 0. (GND, under normal conditions)                                                             |    |    |     |
| 176 | MODSEL1       | I   | D   | TEST/Monitor   | TEST mode select 1. (GND, under normal conditions)                                                             |    |    |     |
| 177 | DVSS          | P   |     | VDD & GND      | Digital Ground.                                                                                                |    |    |     |
| 178 | MODSEL2       | I   | D   | TEST/Monitor   | TEST mode select 2. (GND, under normal conditions)                                                             |    |    |     |
| 179 | GIO0          | I/O | D   | Multi-purpose  | Multi-purpose port 0.                                                                                          |    | *  | *   |
| 180 | GIO1          | I/O | D   | Multi-purpose  | Multi-purpose port 1.                                                                                          |    | *  | *   |
| 181 | GIO2          | I/O | D   | Multi-purpose  | Multi-purpose port 2.                                                                                          |    | *  | *   |
| 182 | GIO3          | I/O | D   | Multi-purpose  | Multi-purpose port 3.                                                                                          |    | *  | *   |
| 183 | DVDD33        | P   |     | VDD & GND      | Digital 3.3V Power for I/O.                                                                                    |    |    |     |
| 184 | GIO4          | I/O | D   | General Port   | Multi-purpose port 4.                                                                                          |    | *  | *   |
| 185 | GIO5          | I/O | D   | General Port   | Multi-purpose port 5.                                                                                          |    | *  | *   |
| 186 | GIO6          | I/O | D   | General Port   | Multi-purpose port 6.                                                                                          |    | *  | *   |
| 187 | GIO7          | I/O | D   | General Port   | Multi-purpose port 7.                                                                                          |    | *  | *   |
| 188 | DVDD18        | P   |     | VDD & GND      | Digital 1.8V Power for I/O. (for internal Logic system)                                                        |    |    |     |
| 189 | GIO8          | I/O | D   | General Port   | Multi-purpose port 8.                                                                                          |    | *  | *   |
| 190 | GIO9          | I/O | D   | General Port   | Multi-purpose port 9.                                                                                          | *  | *  | *   |
| 191 | GIO10         | I/O | D   | General Port   | Multi-purpose port 10.                                                                                         |    | *  | *   |
| 192 | GIO11         | I/O | D   | General Port   | Multi-purpose port 11.                                                                                         |    | *  | *   |
| 193 | GIO12         | I/O | D   | General Port   | Multi-purpose port 12.                                                                                         | *  | *  | *   |
| 194 | DVSS          | P   |     | VDD & GND      | Digital Ground.                                                                                                |    |    |     |
| 195 | GIO13         | I/O | D   | Multi-purpose  | Multi-purpose port 13.                                                                                         | *  | *  | *   |
| 196 | GIO14         | I/O | D   | General Port   | Multi-purpose port 14.                                                                                         | *  | *  | *   |
| 197 | GIO15         | I/O | D   | General Port   | Multi-purpose port 15.                                                                                         | *  | *  | *   |
| 198 | GIO16         | I/O | D   | General Port   | Multi-purpose port 16.                                                                                         |    | *  | *   |
| 199 | GIO17         | I/O | D   | General Port   | Multi-purpose port 17.                                                                                         |    | *  | *   |
| 200 | GIO18         | I/O | D   | General Port   | Multi-purpose port 18.                                                                                         |    | *  | *   |
| 201 | GIO19         | I/O | D   | General Port   | Multi-purpose port 19.                                                                                         |    | *  | *   |
| 202 | TRST          | I   | D   | JTAG I/F       | JTAG Reset input.                                                                                              |    | *  | *   |
| 203 | TMS           | I   | D   | JTAG I/F       | JTAG Mode Select input.                                                                                        | *  |    | *   |
| 204 | TDI           | I   | D   | JTAG I/F       | JTAG Data Input.                                                                                               | *  |    | *   |
| 205 | TCK           | I   | D   | JTAG I/F       | JTAG Clock input.                                                                                              | *  |    |     |
| 206 | TDO           | O   | D   | JTAG I/F       | JTAG Data output.                                                                                              |    |    |     |
| 207 | VMCHG         | I   | D   | MCU I/F        | VSTEM / external MCU access selection terminal of system setting register for DSP. (L: VSTEM, H: external MCU) |    |    |     |
| 208 | DVDD18        | P   |     | VDD & GND      | Digital 1.8V power for internal Logic system.                                                                  |    |    |     |

# IC503: M11L16161SA-45T



## PIN DESCRIPTIONS

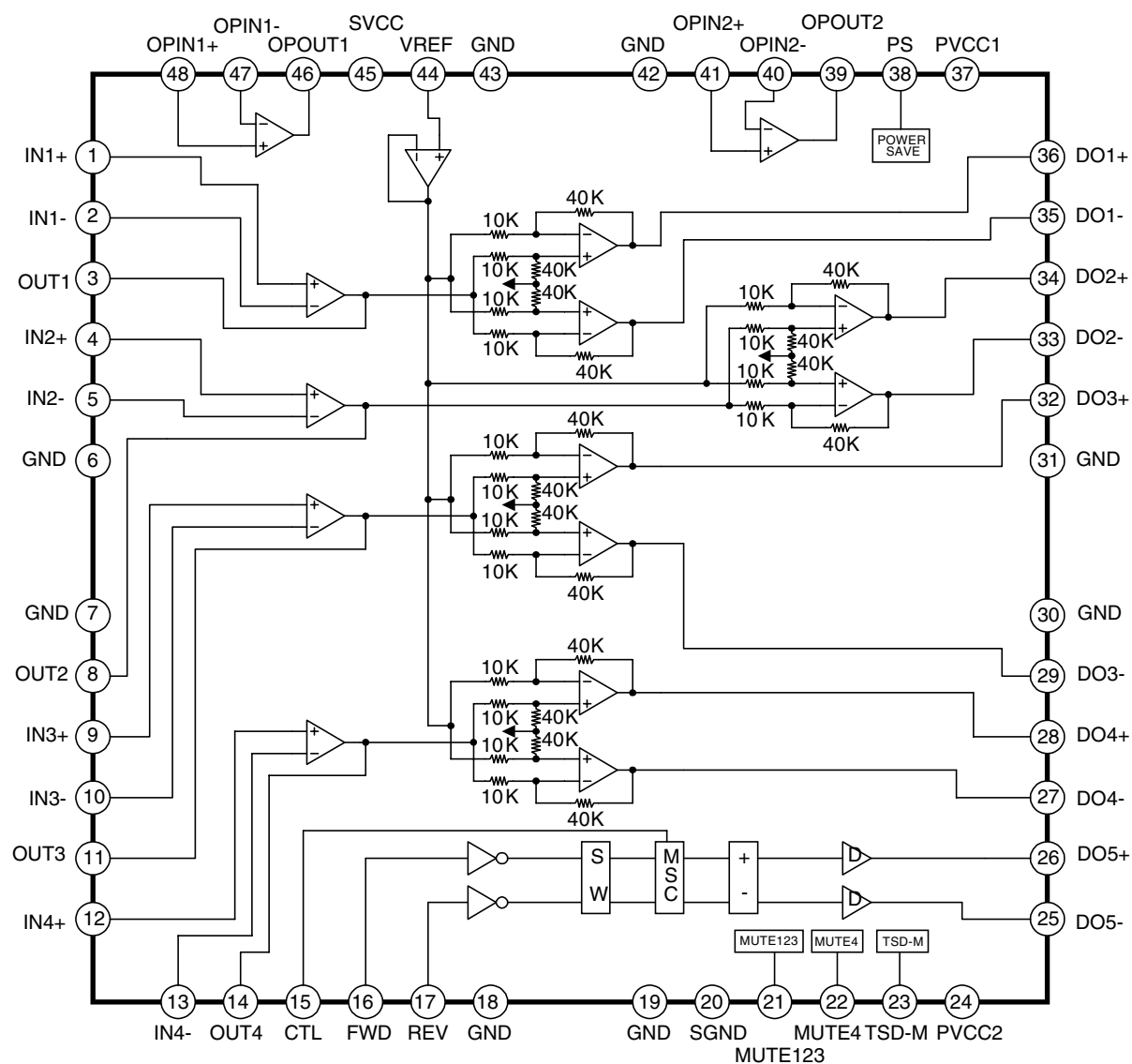
| PIN NO.<br>(SOJ Package) | PIN NAME                 | TYPE         | DESCRIPTION                                                |
|--------------------------|--------------------------|--------------|------------------------------------------------------------|
| 17~20,23~28              | A0~A9                    | Input        | Address Input<br>Row Address:A0~A9<br>Column Address:A0~A9 |
| 14                       | $\overline{\text{RAS}}$  | Input        | Row Address Strobe                                         |
| 30                       | $\overline{\text{CASH}}$ | Input        | Column Address Strobe/Upper Byte Control                   |
| 31                       | $\overline{\text{CASL}}$ | Input        | Column Address Strobe/Lower Byte Control                   |
| 13                       | $\overline{\text{WE}}$   | Input        | Write Enable                                               |
| 29                       | $\overline{\text{OE}}$   | Input        | Output Enable                                              |
| 2~5,7~10,<br>33~36,38~41 | I/O0~I/O15               | Input/Output | Data Input/Output                                          |
| 1,6,21                   | Vcc                      | Supply       | Power,(5V or 3.3V)                                         |
| 22,37,42                 | Vss                      | Ground       | Ground                                                     |
| 11,12,15,16,32           | NC                       | -            | No Connect                                                 |



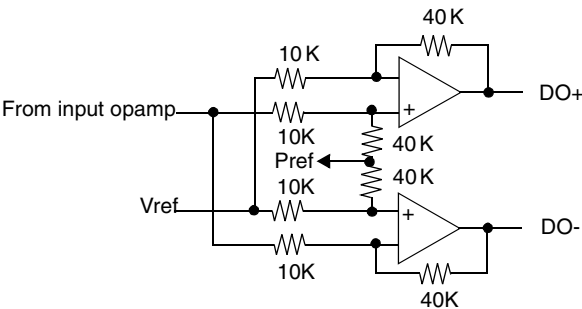
**IC508: FAN8042**

| No. | Pin Name | I/O | Pin Function Description                 |
|-----|----------|-----|------------------------------------------|
| 1   | IN1+     | I   | CH1 op-amp input (+)                     |
| 2   | IN1-     | I   | CH1 op-amp input (-)                     |
| 3   | OUT1     | O   | CH1 op-amp output                        |
| 4   | IN2+     | I   | CH2 op-amp input (+)                     |
| 5   | IN2-     | I   | CH2 op-amp input (-)                     |
| 6   | GND      | -   | Ground                                   |
| 7   | GND      | -   | Ground                                   |
| 8   | OUT2     | O   | CH2 op-amp output                        |
| 9   | IN3+     | I   | CH3 op-amp input (+)                     |
| 10  | IN3-     | I   | CH3 op-amp input (-)                     |
| 11  | OUT3     | O   | CH3 op-amp output                        |
| 12  | IN4+     | I   | CH4 op-amp input (+)                     |
| 13  | IN4-     | I   | CH4 op-amp input (-)                     |
| 14  | OUT4     | O   | CH4 op-amp output                        |
| 15  | CTL      | I   | CH5 motor speed control                  |
| 16  | FWD      | I   | CH5 forward input                        |
| 17  | REV      | I   | CH5 reverse input                        |
| 18  | GND      | -   | Ground                                   |
| 19  | GND      | -   | Ground                                   |
| 20  | SGND     | -   | Signal Ground                            |
| 21  | MUTE123  | I   | Mute for CH1,2,3                         |
| 22  | MUTE4    | I   | Mute for CH4                             |
| 23  | TSD-M    | O   | TSD monitor                              |
| 24  | PVCC2    | -   | Power supply voltage 2 (For CH4,CH5)     |
| 25  | DO5-     | O   | CH5 drive output (-)                     |
| 26  | DO5+     | O   | CH5 drive output (+)                     |
| 27  | DO4-     | O   | CH4 drive output (-)                     |
| 28  | DO4+     | O   | CH4 drive output (+)                     |
| 29  | DO3-     | O   | CH3 drive output (-)                     |
| 30  | GND      | -   | Ground                                   |
| 31  | GND      | -   | Ground                                   |
| 32  | DO3+     | O   | CH3 drive output (+)                     |
| 33  | DO2-     | O   | CH2 drive output (-)                     |
| 34  | DO2+     | O   | CH2 drive output (+)                     |
| 35  | DO1-     | O   | CH1 drive output (-)                     |
| 36  | DO1+     | O   | CH1 drive output (+)                     |
| 37  | PVCC1    | -   | Power supply voltage 1 (FOR CH1 CH2,CH3) |
| 38  | PS       | I   | Power save                               |
| 39  | OPOUT2   | O   | Normal op-amp2 output                    |
| 40  | OPIN2-   | I   | Normal op-amp2 input (-)                 |
| 41  | OPIN2+   | I   | Normal op-amp2 input (+)                 |
| 42  | GND      | -   | Ground                                   |
| 43  | GND      | -   | Ground                                   |
| 44  | VREF     | I   | Bias voltage input                       |
| 45  | SVCC     | -   | Signal & OPAMPs supply voltage           |
| 46  | OPOUT1   | O   | Normal op-amp1 output                    |
| 47  | OPIN1-   | I   | Normal op-amp1 input (-)                 |
| 48  | OPIN1+   | I   | Normal op-amp1 input (+)                 |

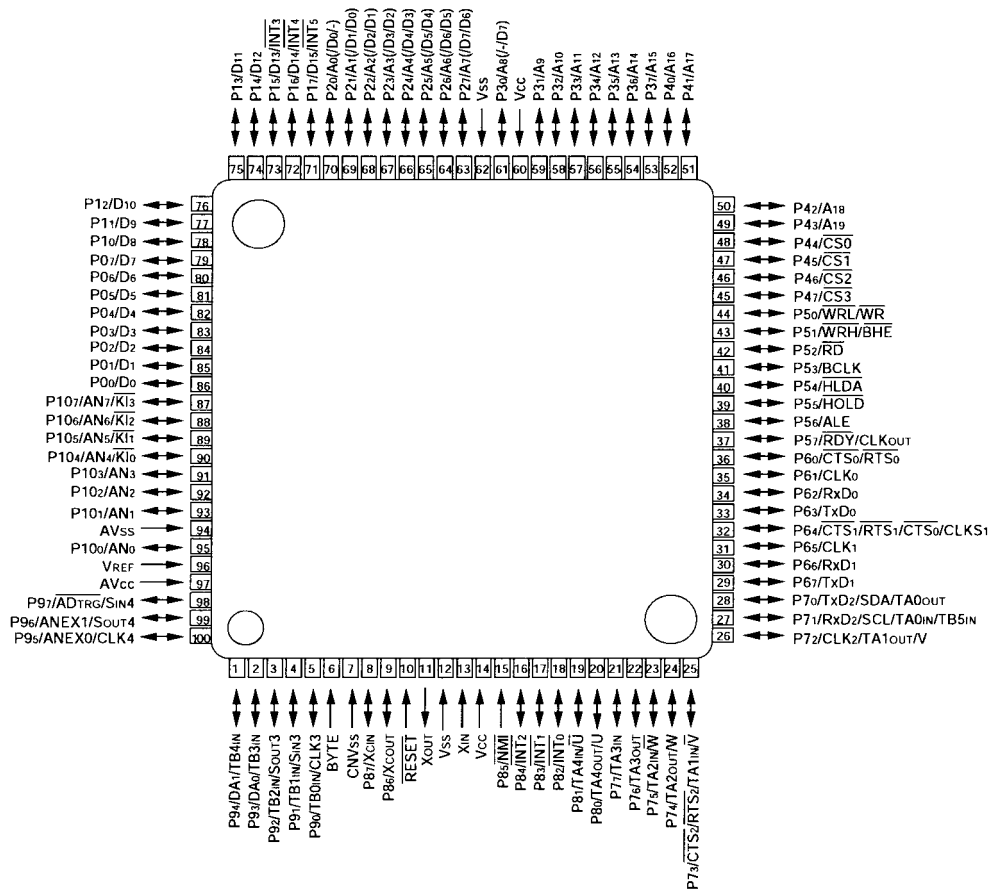
Internal Block Diagram



Note. Detailed circuit of the output power amp



Pref1 is almost PVCC1 / 2  
Pref2 is almost PVCC2 / 2

**IC731: M30624FGNGP**


| No. | Pin Port        | Function | I/O | Initial | Mode     | Action                                     | Note    | Description (USER1:H/USER2:H)  |
|-----|-----------------|----------|-----|---------|----------|--------------------------------------------|---------|--------------------------------|
| 1   | P94/DA1/TB4IN   | P94      | O   | H       | MULT_LED | MULTI SURROUND(LED L=ON)                   |         |                                |
| 2   | P93/DA0/TB3IN   | P93      | O   | H       | DSCS1    | CHIP SELECT for FRONT DAC                  |         |                                |
| 3   | P92/TB2IN/SOUT3 | SOUT3    | O   | H       | DSDO     | CONTOROL SERIAL DATA for ALL DAC           |         | CS4379 control data            |
| 4   | P91/TB1IN/SIN3  | P91      | I   |         | USER1    | MODEL SELECT 1                             |         | H                              |
| 5   | P90/TB0IN/CLK3  | CLK3     | O   | H       | DSCLK    | DATA CLOCK for ALL DAC                     |         | CS4379 control data clock      |
| 6   | BYTE            | BYTE     | I   |         | BYTE     | PULL UP(8bit)                              |         |                                |
| 7   | CNVss           | CNVss    | I   |         | CNVSS    | PULL DOWN 5.6k ohm)                        |         |                                |
| 8   | P87/XCIN        | P87      | O   | H       | DSCS2    | CHIP SELECT for SURROUND DAC               |         | CS4379 SURROUND ch chip select |
| 9   | P86/XCOUT       | P86      | O   | H       | DSCS3    | CHIP SELECT for DXP7001 DAC or DISPLAY OFF |         | DISPLAY OFF=LOW                |
| 10  | RESET~          | RESET~   | I   |         | RESET    | RESET INPUT                                |         |                                |
| 11  | XOUT            | XOUT     | O   |         | X.TAL    | OSC OUT                                    |         |                                |
| 12  | VSS             | VSS      | -   |         | VSS      | GND                                        |         |                                |
| 13  | XIN             | XIN      | I   |         | X.TAL    | OSC IN                                     |         |                                |
| 14  | VCC             | VCC      | -   |         | 3.3V     | POWER INPUT                                |         |                                |
| 15  | P85/NMI~        | P85      | I   |         | P_UP1    | 10K PULL UP(NON CONECT)                    | NOT USE |                                |
| 16  | P84/INT2~       | INT2~    | I/O |         | IR_IN    | IR INPUT SIGNAL(Ma:RC-5/ De:SHARP FORMAT)  |         | IR remote control input        |
| 17  | P83/INT1~       | INT1~    | I   |         | MINT     | INT from CXD1885Q                          |         |                                |
| 18  | P82/INT0~       | INT0~    | I   |         | DRVIRQ   | CXD1885Q DATA REQUEST                      |         |                                |

**IC731: M30624FGNGP**

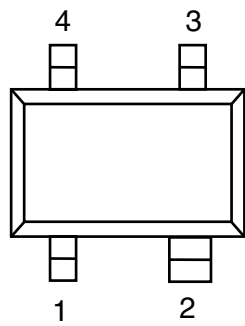
| No. | Pin Port                    | Function | I/O | Initial | Mode     | Action                                          | Note               | Description<br>(USER1:H/USER2:H)  |
|-----|-----------------------------|----------|-----|---------|----------|-------------------------------------------------|--------------------|-----------------------------------|
| 19  | P81/TA4IN/U~                | P81      | O   | L       | FS_SW    | DAC SYSTEM F78CLK SWITCH<br>SIGNAL(384fs/192fs) |                    | CD:Fix to Low<br>SACD:Fix to High |
| 20  | P80/TA4OUT/U                | TA4OUT   | O   | L       | PWM      | TRAY CONTROL PWM SIGNAL                         |                    |                                   |
| 21  | P77/TA3IN                   | P77      | O   | H       | SELDSD   | SELECT for DSD SIGNAL(PLD)                      |                    |                                   |
| 22  | P76/TA3OUT                  | P76      | O   | H       | SMUTE    | MUTING for CXD2753R                             |                    |                                   |
| 23  | P75/TA2IN/W~                | P75      | O   | H       | DSDRST   | RESET for CXD2753R                              |                    |                                   |
| 24  | P74/TA2OUT/W                | P74      | I   |         | MSREADY  | SERIAL DATA READY from<br>CXD2753R              |                    |                                   |
| 25  | P73/CTS2~/RTS2~/TA1IN/V~    | P73      | O   | H       | XMSLAT   | SERIAL DATA LATCH for CXD2753R                  |                    |                                   |
| 26  | P72/CLK2/TA1OUT/V           | CLK2     | O   | H       | MSCK     | SERIAL DATA CLK for CXD2753R                    |                    |                                   |
| 27  | P71/RXD2/SCL/TA0IN/TB5IN    | RXD2     | I   |         | MSDATAO  | SERIAL DATA INPUT from CXD2753R                 | PULL UP            |                                   |
| 28  | P70/TXD2/SDA/TA0OUT         | TXD2     | O   | H       | MSDATI   | SERIAL DATA OUTPUT for<br>CXD2753R              | PULL UP            |                                   |
| 29  | P67/TXD1                    | P67      | O   | H       | CD_LED   | FOR CD SELECT (LED L:ON)                        | Flash(w:pull up)   |                                   |
| 30  | P66/RXD1                    | P66      | O   | H       | SA_LED   | FOR SACD SELECT (LED L:ON)                      | Flash(w:pull up)   |                                   |
| 31  | P65/CLK1                    | P65      | O   | H       | PULL_DWN | 5.1K PULL DOWN(NON CONECT)                      | Flash(w:pull down) |                                   |
| 32  | P64/CTS1~/RTS1~/CTS0~/CLKS1 | P64      | O   | H       | DRVRST   | RESET for CXD1885Q(RESET=L)                     | Flash(w:pull up)   |                                   |
| 33  | P63/TXD0                    | TXD0     | O   | H       | DRVRX    | SERIAL DATA for CXD1885Q                        |                    |                                   |
| 34  | P62/RXD0                    | RXD0     | I   |         | DRVTX    | SERIAL DATA from CXD1885Q                       |                    |                                   |
| 35  | P61/CLK0                    | CLK0     | O   | H       | DRVCLK   | DATA CLOCK for CXD1885Q                         |                    |                                   |
| 36  | P60/CTS0~/RTS0~             | CTS0~    | I   |         | DRVRDY   | DATA READY SIGNAL from<br>CXD1885Q              |                    |                                   |
| 37  | P57/RDY~/CLKOUT             | RDY~     | I   |         | MRDY     | READY from CXD1885Q                             |                    |                                   |
| 38  | P56/ALE                     | P56      | I   |         | OPEN1    | OPEN(anytime)                                   | Flash (w:pull up)  | OPEN (anytime)                    |
| 39  | P55/HOLD~                   | P55      | I   |         | P_UP2    | 10K PULL UP(NON CONECT)                         | Flash (w:GND)      |                                   |
| 40  | P54/HLDA~                   | P54      | -   |         | OPEN2    | OPEN                                            |                    |                                   |
| 41  | P53/BCLK                    | P53      | -   |         | OPEN3    | OPEN                                            |                    |                                   |
| 42  | P52/RD~                     | RD~      | O   |         | MRD      | READ STROBE for XD1885Q                         |                    |                                   |
| 43  | P51/WRH~/BHE~               | P51      | -   |         | OPEN4    | OPEN                                            |                    |                                   |
| 44  | P50/WRL~/WR~                | WR~      | O   |         | MWR      | WRITE STROBE for XD1885Q                        | Flash(w:pull up)   |                                   |
| 45  | P47/CS3~                    | CS3~     | O   | H       | MCS      | CHIP SELECT for CXD1885Q                        |                    |                                   |
| 46  | P46/CS2~                    | CS2~     | O   | H       | MCS2     | CHIP SELECT for 1M-SRAM                         |                    |                                   |
| 47  | P45/CS1~                    | P45      | O   | H       | OPN_DRV  | TRAY OPEN DRIVE CONTROL                         |                    |                                   |
| 48  | P44/CS0~                    | P44      | O   | H       | CLS_DRV  | TRAY CLOSE DRIVE CONTROL                        |                    |                                   |
| 49  | P43/A19                     | P43      | O   |         | OPEN4    | OPEN                                            |                    |                                   |
| 50  | P42/A18                     | P42      | O   |         | OPEN5    | OPEN                                            |                    |                                   |
| 51  | P41/A17                     | P41      | O   |         | OPEN5    | OPEN                                            |                    |                                   |
| 52  | P40/A16                     | A16      | O   |         | A16      | ADDRRES LINE                                    |                    |                                   |
| 53  | P37/A15                     | A15      | O   |         | A15      | ADDRRES LINE                                    |                    |                                   |
| 54  | P36/A14                     | A14      | O   |         | A14      | ADDRRES LINE                                    |                    |                                   |
| 55  | P35/A13                     | A13      | O   |         | A13      | ADDRRES LINE                                    |                    |                                   |
| 56  | P34/A12                     | A12      | O   |         | A12      | ADDRRES LINE                                    |                    |                                   |
| 57  | P33/A11                     | A11      | O   |         | A11      | ADDRRES LINE                                    |                    |                                   |
| 58  | P32/A10                     | A10      | O   |         | A10      | ADDRRES LINE                                    |                    |                                   |
| 59  | P31/A9                      | A9       | O   |         | A9       | ADDRRES LINE                                    |                    |                                   |
| 60  | VCC                         | VCC      | -   |         | ---      | 3.3V                                            |                    |                                   |
| 61  | P30/A8(/?/D7)               | A8       | O   |         | A8       | ADDRRES LINE                                    |                    |                                   |
| 62  | VSS                         | VSS      | -   |         | ---      | GND                                             |                    |                                   |
| 63  | P27/A7(/D7/D6)              | A7       | O   |         | A7       | ADDRRES LINE                                    |                    |                                   |
| 64  | P26/A6(/D6/D5)              | A6       | O   |         | A6       | ADDRRES LINE                                    |                    |                                   |
| 65  | P25/A5(/D5/D4)              | A5       | O   |         | A5       | ADDRRES LINE                                    |                    |                                   |
| 66  | P24/A4(/D4/D3)              | A4       | O   |         | A4       | ADDRRES LINE                                    |                    |                                   |
| 67  | P23/A3(/D3/D2)              | A3       | O   |         | A3       | ADDRRES LINE                                    |                    |                                   |
| 68  | P22/A2(/D2/D1)              | A2       | O   |         | A2       | ADDRRES LINE                                    |                    |                                   |
| 69  | P21/A1(/D1/D0)              | A1       | O   |         | A1       | ADDRRES LINE                                    |                    |                                   |

**IC731: M30624FGNGP**

| No. | Pin Port        | Function | I/O | Initial | Mode   | Action                                          | Note                     | Description<br>(USER1:H/USER2:H)                                                                                                       |
|-----|-----------------|----------|-----|---------|--------|-------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 70  | P20/A0(/D0/?)   | A0       | O   |         | A0     | ADDRRES LINE                                    |                          |                                                                                                                                        |
| 71  | P17/D15/INT5~   | P17      | O   | H       | ICLK   | IIC CLK FOR EE_ROM(AT24C04N)                    |                          |                                                                                                                                        |
| 72  | P16/D14/INT4~   | P16      | I/O | H       | IDAT   | IIC DATA FOR EE_ROM(AT24C04N)                   |                          |                                                                                                                                        |
| 73  | P15/D13/INT3~   | P15      | I   |         | OPN_SW | TRAY OPEN DETECT SW                             |                          |                                                                                                                                        |
| 74  | P14/D12         | P14      | I   |         | CLS_SW | TRAY CLOSE DETECT SW                            |                          |                                                                                                                                        |
| 75  | P13/D11         | P13      | O   | H       | PCMRST | DE:RESET for DXP7001 or<br>Ma:DISPLAY LED(L:ON) | Flash(w:pull<br>up)      | RESET for<br>DXP7001(reset=L)                                                                                                          |
| 76  | P12/D10         | P12      | I   |         | FILT1  | SACD: DAC SYSTEM CLK<br>SWITCHING CONTOROL IN   | (Low:384fs/<br>Hi:192fs) | for FILTER-SW                                                                                                                          |
| 77  | P11/D9          | P11      | O   | H       | MUT2   | MUTING for MULTI<br>CHANNEL(H:MUTE)             | RELAY/TR                 |                                                                                                                                        |
| 78  | P10/D8          | P10      | O   | H       | MUT1   | MUTING for STEREO<br>CHANNEL(H:MUTE)            | RELAY/TR                 |                                                                                                                                        |
| 79  | P07/D7          | D7       | I/O |         | D7     | 8bit DATA LINE                                  |                          |                                                                                                                                        |
| 80  | P06/D6          | D6       | I/O |         | D6     | 8bit DATA LINE                                  |                          |                                                                                                                                        |
| 81  | P05/D5          | D5       | I/O |         | D5     | 8bit DATA LINE                                  |                          |                                                                                                                                        |
| 82  | P04/D4          | D4       | I/O |         | D4     | 8bit DATA LINE                                  |                          |                                                                                                                                        |
| 83  | P03/D3          | D3       | I/O |         | D3     | 8bit DATA LINE                                  |                          |                                                                                                                                        |
| 84  | P02/D2          | D2       | I/O |         | D2     | 8bit DATA LINE                                  |                          |                                                                                                                                        |
| 85  | P01/D1          | D1       | I/O |         | D1     | 8bit DATA LINE                                  |                          |                                                                                                                                        |
| 86  | P00/D0          | D0       | I/O |         | D0     | 8bit DATA LINE                                  |                          |                                                                                                                                        |
| 87  | P107/AN7/KI3~   | P107     | O   | H       | MODE   | CD/SACD SWITCHING<br>SIGNAL(L:CD,SACD:H)        |                          | Switching of digital<br>audio data for SACD<br>and CD(L=CD,<br>H=SACD)<br>Data transwission<br>hold to recognition of<br>the next DISC |
| 88  | P106/AN6/KI2~   | P106     | O   | L       | FCS    | DISPLAY CHIP SRELECT for FL<br>DRIVER           |                          | ML9207-01GP chip<br>select                                                                                                             |
| 89  | P105/AN5/KI1~   | P105     | O   | H       | DSRST2 | DSP RESET2 for SURROUND<br>CHANNEL or ATT       |                          | Mute signal fo Search                                                                                                                  |
| 90  | P104/AN4/KI0~   | P104     | O   | H       | DSRST1 | DSP RESET1 for FRONT CHANNEL                    |                          | RESET for DAC<br>(reset=L)                                                                                                             |
| 91  | P103/AN3        | P103     | O   | L       | FRRST  | DISPLAY DRIVER RESET                            |                          | ML9207-01GP reset                                                                                                                      |
| 92  | P102/AN2        | AN2      | I   |         | KEY2   | KEYS SENS                                       |                          |                                                                                                                                        |
| 93  | P101/AN1        | AN1      | I   |         | KEY1   | KEYS SENS                                       |                          |                                                                                                                                        |
| 94  | AVSS            | AVSS     | -   |         | GND    | AD GND                                          |                          |                                                                                                                                        |
| 95  | P100/AN0        | AN0      | I   |         | KEY0   | KEYS SENS                                       |                          |                                                                                                                                        |
| 96  | VRef            | Vref     | I   |         | 3.3V   | AD reference                                    |                          |                                                                                                                                        |
| 97  | AVcc            | AVcc     | -   |         | 3.3V   | AD Vcc                                          |                          |                                                                                                                                        |
| 98  | P97/ADTRG~/SIN4 | P97      | I   |         | USER2  | MODEL SELECT 2                                  |                          | H                                                                                                                                      |
| 99  | P96/ANEX1/SOUT4 | SOUT4    | O   | L       | FDAT   | DISPLAY DATA for FL DRIVER                      |                          | ML9207-01GP control<br>data                                                                                                            |
| 100 | P95/ANEX0/CLK4  | CLK4     | O   | L       | FCLK   | DISPLAY CLOCK for FL DRIVER                     |                          | ML9207-01GP control<br>clock                                                                                                           |

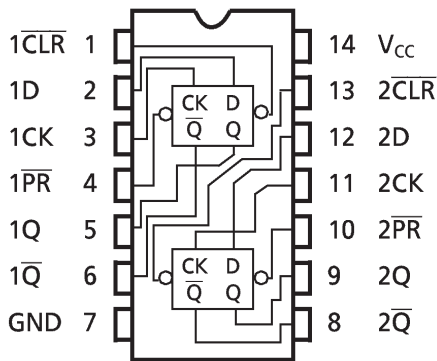


IC733: S-80843C

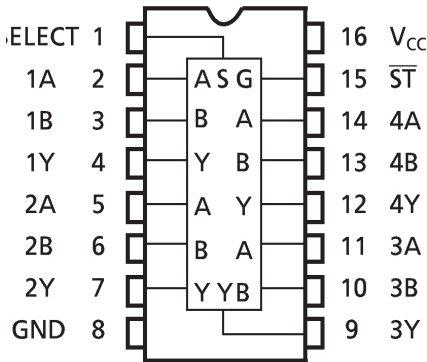


|   |      |
|---|------|
| 1 | OUT  |
| 2 | VDD  |
| 3 | N.C. |
| 4 | VSS  |

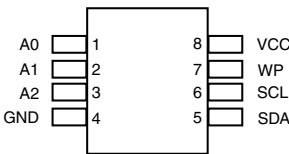
IC734: TC74VHC74FT



IC736: TC74VHC157FT



IC737: AT24C04

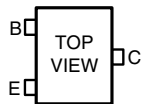


Pin Configurations

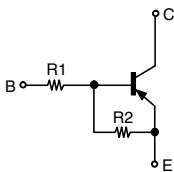
| Pin Name | Function            |
|----------|---------------------|
| A0 - A2  | Address Inputs      |
| SDA      | Sedrial Data        |
| SCL      | Sedrial Clock Input |
| WP       | Write Protect       |
| NC       | No Connect          |

TRASISTORS

DTA114EK — PNP  
DTC114EK — NPN

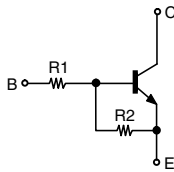


DTA Series



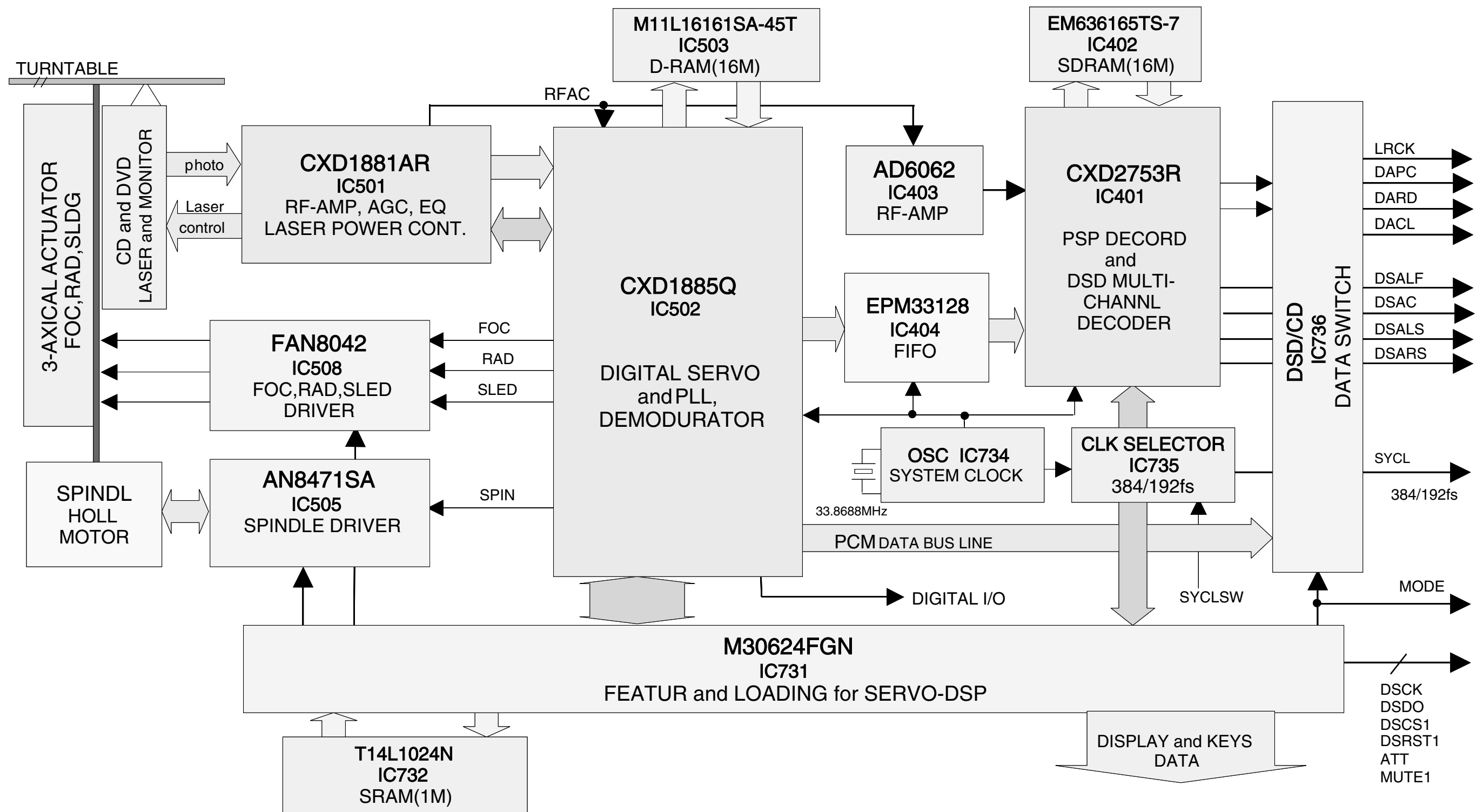
|          | R1     | R2     |
|----------|--------|--------|
| DTA114EK | 10kohm | 10kohm |

DTC Series

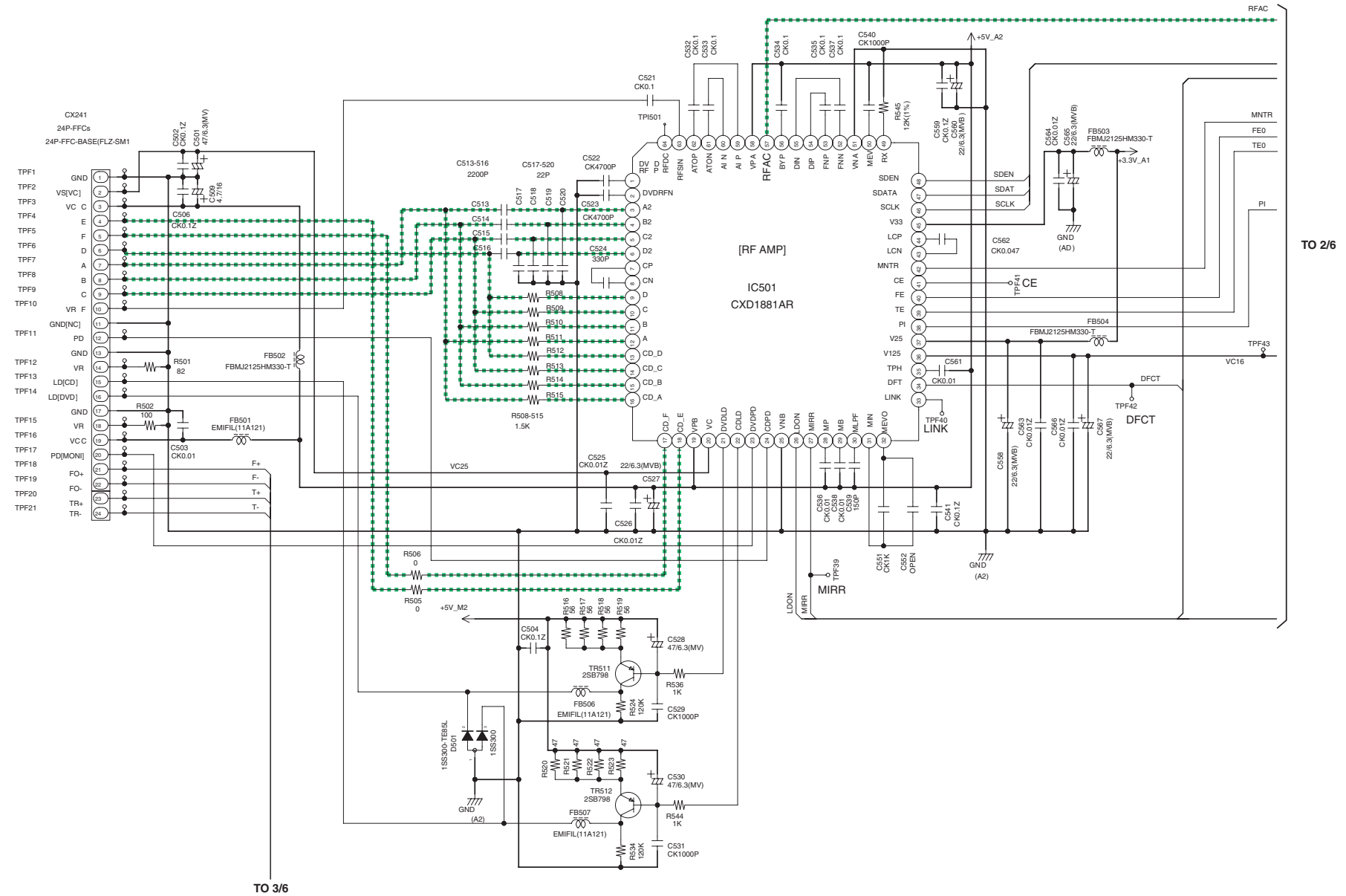


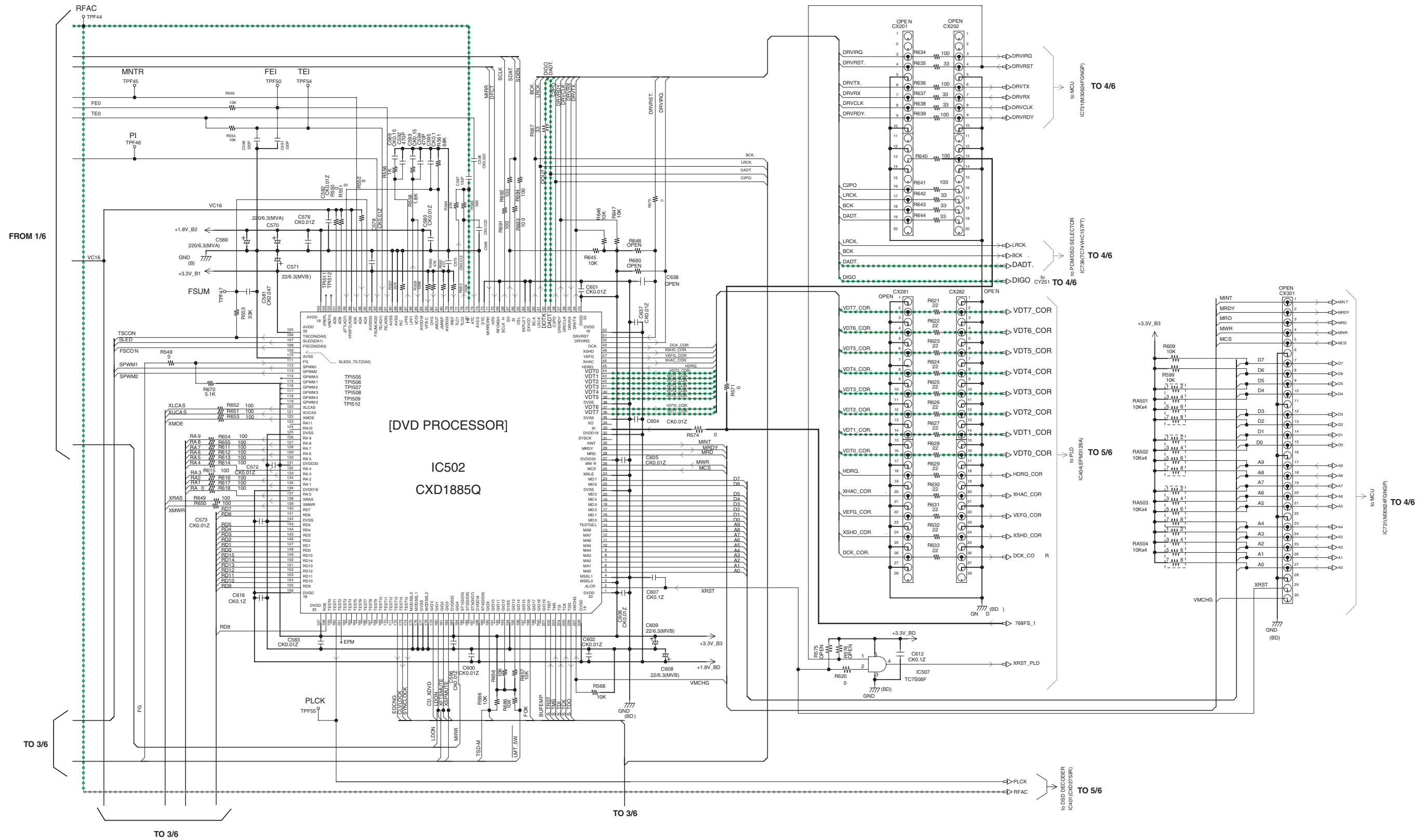
|          | R1     | R2     |
|----------|--------|--------|
| DTC114EK | 10kohm | 10kohm |

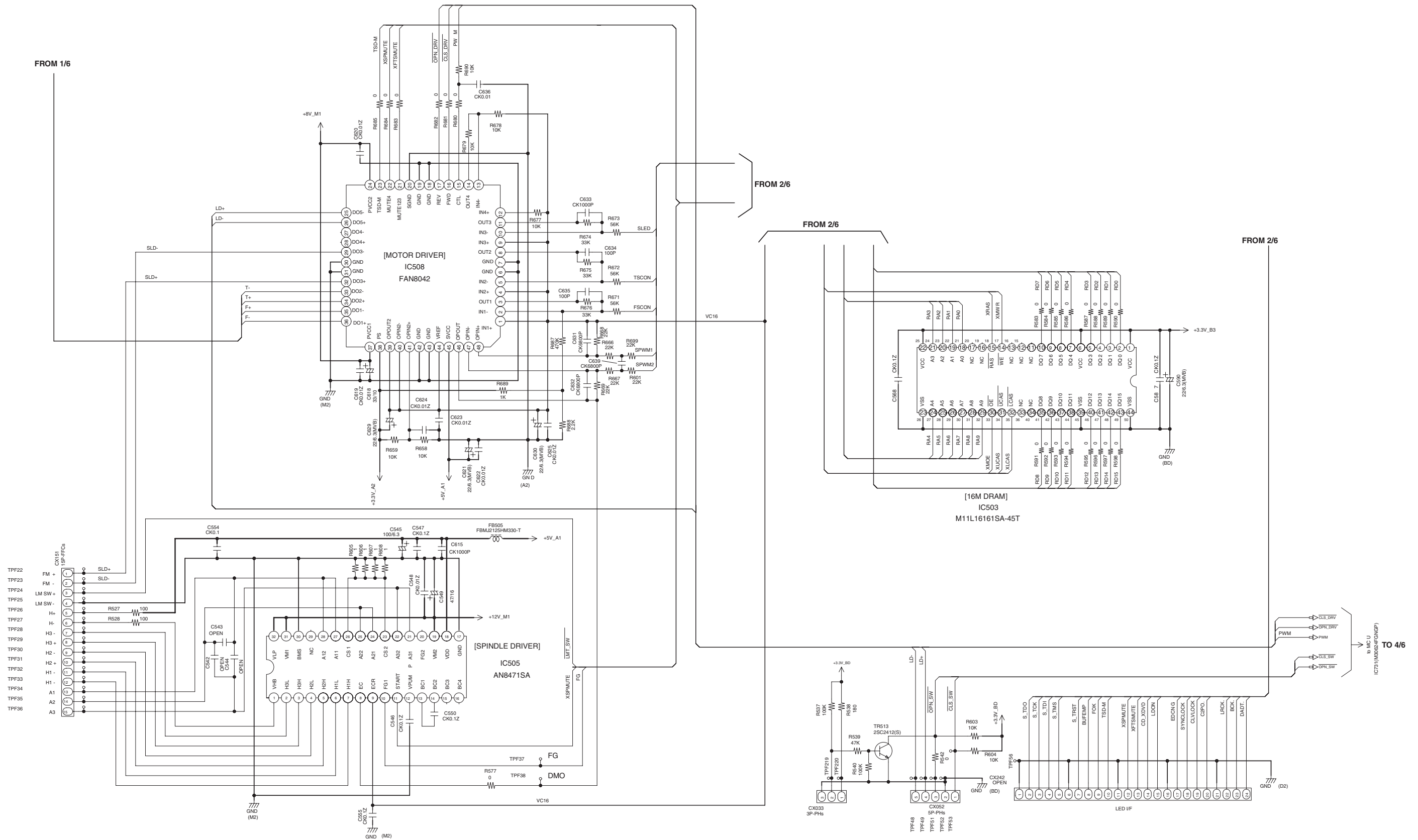
2. BLOCK DIAGRAM



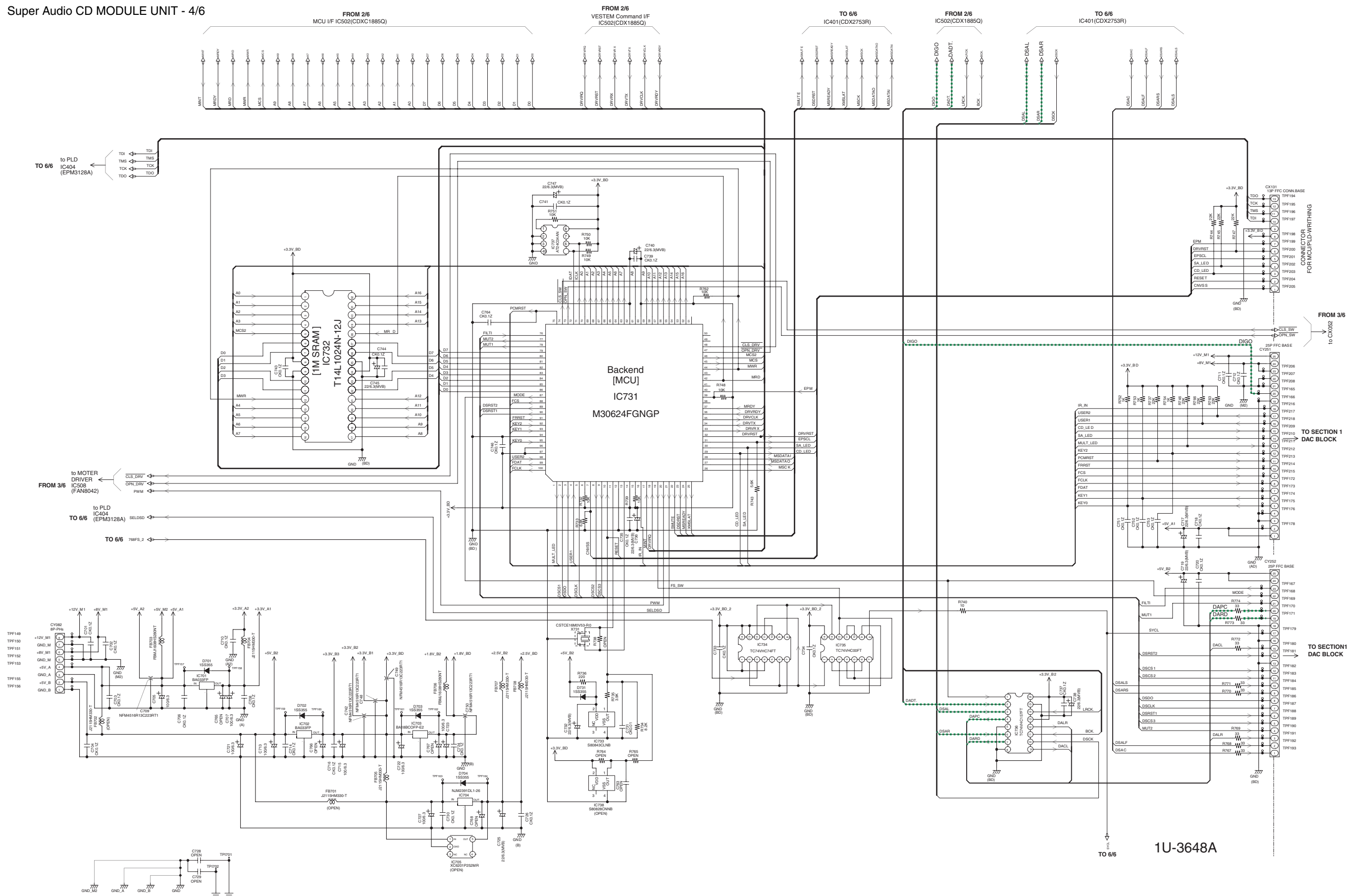
Super Audio CD MODULE UNIT - 1/6

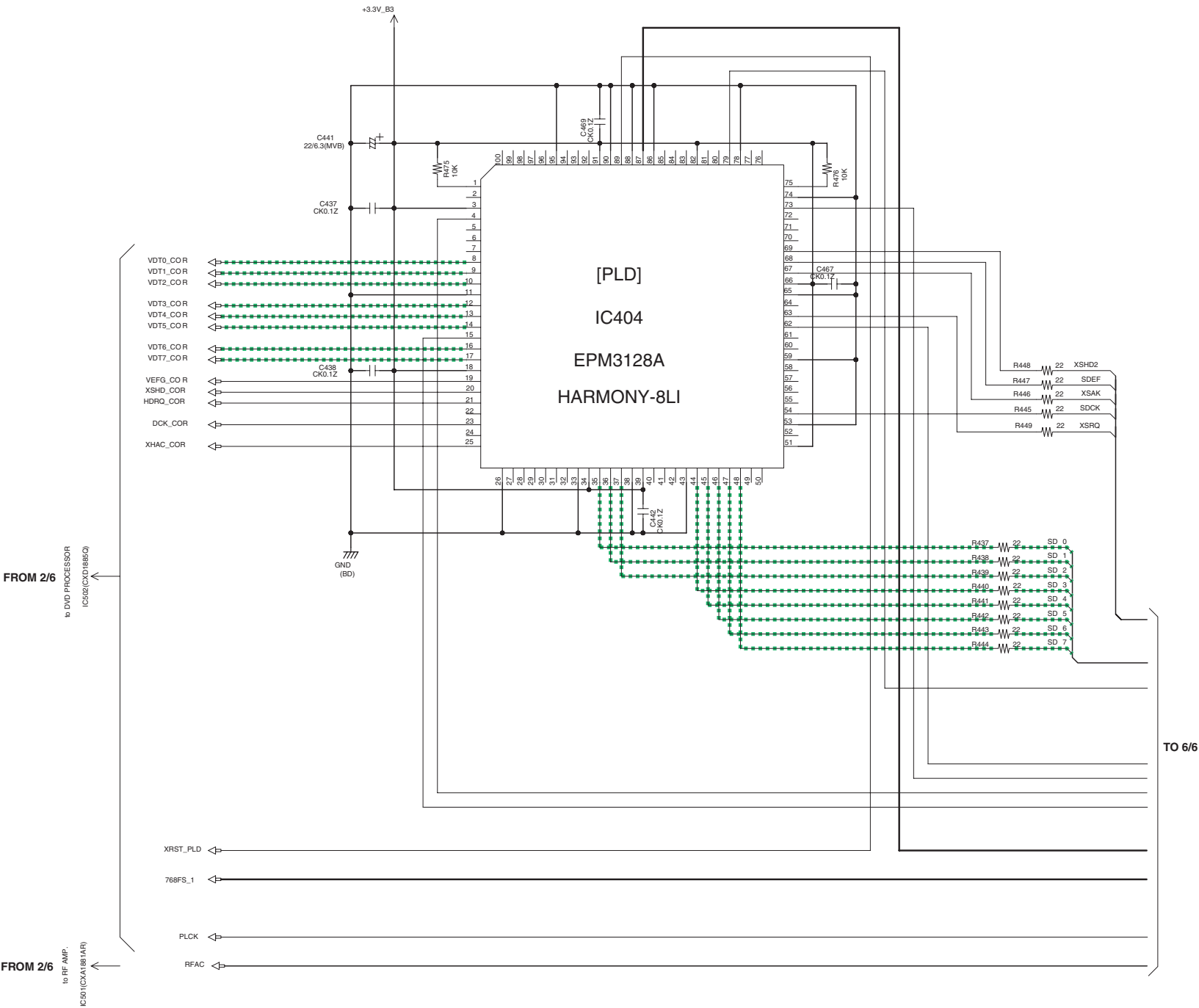






Super Audio CD MODULE UNIT - 4/6











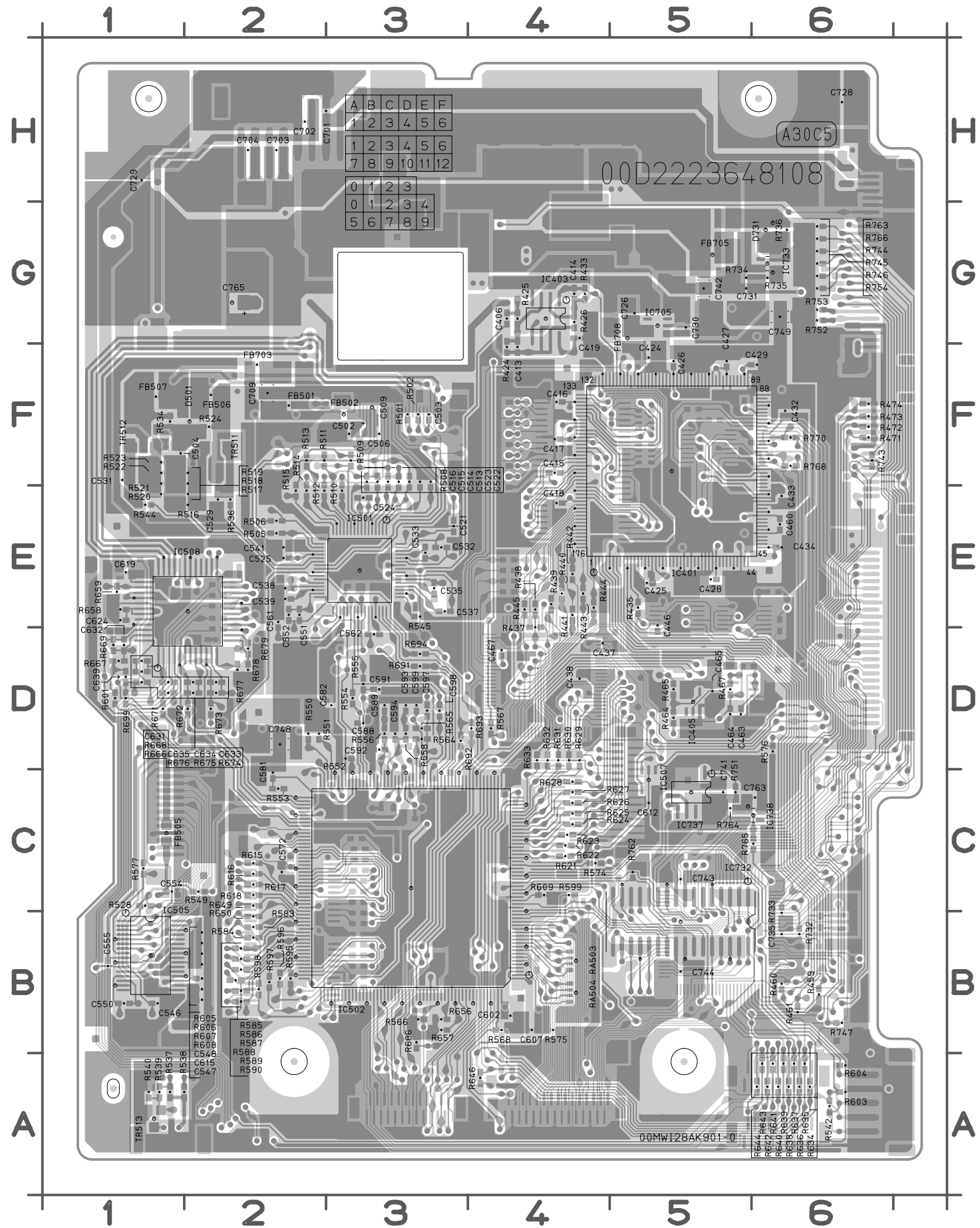
4. PARTS LOCATION

Super Audio CD MODULE UNIT

鉛フリー半田  
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

**Lead-free Solder**  
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

|      |    |      |    |      |    |      |    |
|------|----|------|----|------|----|------|----|
| C406 | G4 | C624 | E1 | R505 | E2 | R624 | C4 |
| C413 | F4 | C631 | D1 | R506 | E2 | R625 | C4 |
| C414 | G4 | C632 | D1 | R508 | F3 | R626 | C4 |
| C415 | F4 | C633 | D2 | R509 | F3 | R627 | C4 |
| C416 | F4 | C634 | D2 | R510 | E3 | R628 | C4 |
| C417 | F4 | C635 | D1 | R511 | F2 | R629 | D4 |
| C418 | E4 | C639 | D1 | R512 | E2 | R630 | D4 |
| C419 | G4 | C701 | H3 | R513 | F2 | R631 | D4 |
| C424 | F5 | C702 | H2 | R514 | E2 | R632 | D4 |
| C425 | E5 | C703 | H2 | R515 | E2 | R633 | D4 |
| C426 | F5 | C704 | H2 | R516 | E2 | R634 | A6 |
| C427 | F5 | C709 | F2 | R517 | E2 | R635 | A6 |
| C428 | E5 | C726 | G5 | R518 | F2 | R636 | A6 |
| C429 | F6 | C728 | H6 | R519 | F2 | R637 | A6 |
| C432 | F6 | C729 | H1 | R520 | E1 | R638 | A6 |
| C433 | E6 | C730 | G5 | R521 | F1 | R639 | A6 |
| C434 | E6 | C731 | G5 | R522 | F1 | R640 | A6 |
| C437 | D4 | C735 | B6 | R523 | F1 | R641 | A6 |
| C438 | D4 | C741 | C5 | R524 | F2 | R642 | A6 |
| C446 | E5 | C742 | G5 | R528 | C1 | R643 | A6 |
| C460 | E6 | C743 | C5 | R534 | F1 | R644 | A6 |
| C463 | D5 | C744 | B5 | R536 | E2 | R646 | A4 |
| C464 | D5 | C748 | D2 | R537 | A1 | R649 | C2 |
| C465 | D5 | C749 | G6 | R538 | A2 | R650 | B2 |
| C467 | D4 | C763 | C6 | R539 | A1 | R656 | B3 |
| C502 | F3 | C765 | G2 | R540 | A1 | R657 | B3 |
| C503 | F3 | D501 | F2 | R542 | A6 | R658 | E1 |
| C504 | F1 | D731 | G6 | R544 | E1 | R659 | E1 |
| C506 | F3 | FB50 | F2 | R545 | E3 | R666 | D1 |
| C509 | F3 | FB50 | F3 | R549 | C2 | R667 | D1 |
| C513 | F3 | FB50 | C1 | R550 | D2 | R668 | D1 |
| C514 | F3 | FB50 | F2 | R551 | D2 | R669 | D1 |
| C515 | F3 | FB50 | F1 | R552 | D3 | R671 | D1 |
| C516 | F3 | FB70 | F2 | R553 | C2 | R672 | D2 |
| C521 | E3 | FB70 | G5 | R554 | D3 | R673 | D2 |
| C522 | F3 | FB70 | G5 | R555 | D3 | R674 | D2 |
| C523 | F3 | IC40 | F5 | R556 | D3 | R675 | D2 |
| C524 | E3 | IC40 | G4 | R558 | D3 | R676 | D1 |
| C525 | E2 | IC40 | D5 | R564 | D3 | R677 | D2 |
| C529 | E2 | IC50 | E3 | R565 | D3 | R678 | D2 |
| C531 | F1 | IC50 | C3 | R566 | B3 | R679 | D2 |
| C532 | E3 | IC50 | B1 | R567 | D4 | R686 | B3 |
| C533 | E3 | IC50 | C5 | R568 | B4 | R691 | D3 |
| C535 | E3 | IC50 | E2 | R574 | C4 | R692 | D3 |
| C537 | E3 | IC70 | G5 | R575 | B4 | R693 | D4 |
| C538 | E2 | IC73 | B5 | R576 | D6 | R694 | D3 |
| C539 | E2 | IC73 | G6 | R577 | C1 | R699 | D1 |
| C541 | E2 | IC73 | C5 | R583 | B2 | R732 | B6 |
| C546 | B1 | IC73 | C6 | R584 | B2 | R733 | B6 |
| C547 | B2 | R424 | F4 | R585 | B2 | R734 | G5 |
| C548 | B2 | R425 | G4 | R586 | B2 | R735 | G6 |
| C550 | B1 | R426 | G4 | R587 | B2 | R736 | G6 |
| C551 | E2 | R433 | G4 | R588 | B2 | R743 | F6 |
| C552 | E2 | R435 | E5 | R589 | B2 | R744 | G6 |
| C554 | C1 | R437 | E4 | R590 | B2 | R745 | G6 |
| C555 | B1 | R438 | E4 | R595 | B2 | R746 | G6 |
| C561 | E2 | R439 | E4 | R596 | B2 | R747 | B6 |
| C562 | D3 | R440 | E4 | R597 | B2 | R751 | C5 |
| C572 | C2 | R441 | E4 | R598 | B2 | R752 | G6 |
| C581 | C2 | R442 | E4 | R599 | C4 | R753 | G6 |
| C582 | D3 | R443 | E4 | R601 | D1 | R754 | G6 |
| C588 | D3 | R444 | E4 | R603 | A6 | R762 | C5 |
| C589 | D3 | R445 | E4 | R604 | A6 | R763 | G6 |
| C591 | D3 | R459 | B6 | R605 | B2 | R764 | C5 |
| C592 | D3 | R460 | B6 | R606 | B2 | R765 | C6 |
| C593 | D3 | R461 | B6 | R607 | B2 | R766 | G6 |
| C594 | D3 | R464 | D5 | R608 | B2 | R768 | F6 |
| C597 | D3 | R465 | D5 | R609 | C4 | R770 | F6 |
| C598 | D3 | R467 | D5 | R615 | C2 | RA50 | B4 |
| C599 | D3 | R471 | F6 | R616 | C2 | RA50 | B4 |
| C602 | B4 | R472 | F6 | R617 | C2 | TR51 | F2 |
| C607 | B4 | R473 | F6 | R618 | C2 | TR51 | F1 |
| C612 | C5 | R474 | F6 | R621 | C4 | TR51 | A1 |
| C615 | B2 | R501 | F3 | R622 | C4 |      |    |
| C619 | E1 | R502 | F3 | R623 | C4 |      |    |





## 5. ELECTRICAL PARTS LIST

| PWB NAME | POS. NO. | VERS. COLOR | PART NO. (FOR EUR) | PART NO. (MZ) | PART NAME  | DESCRIPTION                  |
|----------|----------|-------------|--------------------|---------------|------------|------------------------------|
| 1U-3648A | C-403    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-404    |             | 00D2544464964      | 00D2544464964 | ELECT CAP. | CE67C0J470MT(MV) +REF        |
| 1U-3648A | C-405    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-406    |             | nsp                | 00D2570501901 | CER. CAP.  | CK73B1H103KT (1608) +1608    |
| 1U-3648A | C-407    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-408    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF      |
| 1U-3648A | C-409    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF      |
| 1U-3648A | C-410    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF      |
| 1U-3648A | C-411    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-412    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-413    |             | nsp                | 00D2570502942 | CER. CAP.  | CC73CH1H2R0CT +1608          |
| 1U-3648A | C-414    |             | nsp                | 00D2570502942 | CER. CAP.  | CC73CH1H2R0CT +1608          |
| 1U-3648A | C-415    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-416    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-417    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-418    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-419    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-420    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF      |
| 1U-3648A | C-421    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-422    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-423    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF      |
| 1U-3648A | C-424    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-425    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-426    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-427    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-428    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-429    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-430    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF      |
| 1U-3648A | C-432    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-433    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-434    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-436    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-437    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-438    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-441    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF      |
| 1U-3648A | C-442    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-446    |             | nsp                | 00D2570509929 | CER. CAP.  | CK73B1H102KT +1608           |
| 1U-3648A | C-460    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-461    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF      |
| 1U-3648A | C-463    |             | nsp                | 00D2570502984 | CER. CAP.  | CC73CH1H6R0DT +1608          |
| 1U-3648A | C-464    |             | nsp                | 00D2570502984 | CER. CAP.  | CC73CH1H6R0DT +1608          |
| 1U-3648A | C-465    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-467    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-469    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-471    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF      |
| 1U-3648A | C-472    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-501    |             | 00D2544464964      | 00D2544464964 | ELECT CAP. | CE67C0J470MT(MV) +REF        |
| 1U-3648A | C-502    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-503    |             | nsp                | 00D2570501901 | CER. CAP.  | CK73B1H103KT (1608) +1608    |
| 1U-3648A | C-504    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-506    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608           |
| 1U-3648A | C-509    |             | 00D2572015945      | 00D2572015945 | CER. CAP.  | CS77B1A475MT                 |
| 1U-3648A | C-513    |             | nsp                | 00D2570509990 | CER. CAP.  | CK73B1H222KT +1608 CAPACITOR |
| 1U-3648A | C-514    |             | nsp                | 00D2570509990 | CER. CAP.  | CK73B1H222KT +1608 CAPACITOR |
| 1U-3648A | C-515    |             | nsp                | 00D2570509990 | CER. CAP.  | CK73B1H222KT +1608 CAPACITOR |
| 1U-3648A | C-516    |             | nsp                | 00D2570509990 | CER. CAP.  | CK73B1H222KT +1608 CAPACITOR |
| 1U-3648A | C-517    |             | nsp                | 00D2570504908 | CER. CAP.  | CC73CH1H220JT +1608          |
| 1U-3648A | C-518    |             | nsp                | 00D2570504908 | CER. CAP.  | CC73CH1H220JT +1608          |
| 1U-3648A | C-519    |             | nsp                | 00D2570504908 | CER. CAP.  | CC73CH1H220JT +1608          |
| 1U-3648A | C-520    |             | nsp                | 00D2570504908 | CER. CAP.  | CC73CH1H220JT +1608          |
| 1U-3648A | C-521    |             | nsp                | 00D2570516954 | CER. CAP.  | CK73B1E104KT +1608           |
| 1U-3648A | C-522    |             | nsp                | 00D2570510934 | CER. CAP.  | CK73B1H472KT +1608           |
| 1U-3648A | C-523    |             | nsp                | 00D2570510934 | CER. CAP.  | CK73B1H472KT +1608           |
| 1U-3648A | C-524    |             | nsp                | 00D2570507976 | CER. CAP.  | CC73CH1H331JT +1608          |
| 1U-3648A | C-525    |             | nsp                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608           |
| 1U-3648A | C-526    |             | nsp                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608           |
| 1U-3648A | C-527    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF      |

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

| PWB NAME | POS. NO. | VERS. COLOR | PART NO. (FOR EUR) | PART NO. (MZ) | PART NAME  | DESCRIPTION                   |
|----------|----------|-------------|--------------------|---------------|------------|-------------------------------|
| 1U-3648A | C-528    |             | 00D2544464964      | 00D2544464964 | ELECT CAP. | CE67C0J470MT(MV) +REF         |
| 1U-3648A | C-529    |             | nsf                | 00D2570509929 | CER. CAP.  | CK73B1H102KT +1608            |
| 1U-3648A | C-530    |             | 00D2544464964      | 00D2544464964 | ELECT CAP. | CE67C0J470MT(MV) +REF         |
| 1U-3648A | C-531    |             | nsf                | 00D2570509929 | CER. CAP.  | CK73B1H102KT +1608            |
| 1U-3648A | C-532    |             | nsf                | 00D2570516954 | CER. CAP.  | CK73B1E104KT +1608            |
| 1U-3648A | C-533    |             | nsf                | 00D2570516954 | CER. CAP.  | CK73B1E104KT +1608            |
| 1U-3648A | C-534    |             | nsf                | 00D2570516954 | CER. CAP.  | CK73B1E104KT +1608            |
| 1U-3648A | C-535    |             | nsf                | 00D2570516954 | CER. CAP.  | CK73B1E104KT +1608            |
| 1U-3648A | C-536    |             | nsf                | 00D2570501901 | CER. CAP.  | CK73B1H103KT (1608) +1608     |
| 1U-3648A | C-537    |             | nsf                | 00D2570516954 | CER. CAP.  | CK73B1E104KT +1608            |
| 1U-3648A | C-538    |             | nsf                | 00D2570501901 | CER. CAP.  | CK73B1H103KT (1608) +1608     |
| 1U-3648A | C-539    |             | nsf                | 00D2570506993 | CER. CAP.  | CC73CH1H151JT +1608           |
| 1U-3648A | C-540    |             | nsf                | 00D2570509929 | CER. CAP.  | CK73B1H102KT +1608            |
| 1U-3648A | C-541    |             | nsf                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608            |
| 1U-3648A | C-545    |             | 00D2544464906      | 00D2544464906 | ELECT CAP. | CE67C0J101MT +REF             |
| 1U-3648A | C-546    |             | nsf                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608            |
| 1U-3648A | C-547    |             | nsf                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608            |
| 1U-3648A | C-548    |             | nsf                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608            |
| 1U-3648A | C-549    |             | 00D2544465918      | 00D2544465918 | ELECT CAP. | CE67C1C470MT +REF             |
| 1U-3648A | C-550    |             | nsf                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608            |
| 1U-3648A | C-551    |             | nsf                | 00D2570521907 | CER. CAP.  | CK73B1A105KT +1608            |
| 1U-3648A | C-554    |             | nsf                | 00D2570516954 | CER. CAP.  | CK73B1E104KT +1608            |
| 1U-3648A | C-555    |             | nsf                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608            |
| 1U-3648A | C-558    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF       |
| 1U-3648A | C-559    |             | nsf                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608            |
| 1U-3648A | C-560    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF       |
| 1U-3648A | C-561    |             | nsf                | 00D2570501901 | CER. CAP.  | CK73B1H103KT (1608) +1608     |
| 1U-3648A | C-562    |             | nsf                | 00D2570516941 | CER. CAP.  | CK73B1E473KT +1608            |
| 1U-3648A | C-563    |             | nsf                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608            |
| 1U-3648A | C-564    |             | nsf                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608            |
| 1U-3648A | C-565    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF       |
| 1U-3648A | C-566    |             | nsf                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608            |
| 1U-3648A | C-567    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF       |
| 1U-3648A | C-568    |             | nsf                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608            |
| 1U-3648A | C-569    |             | 00D2544645903      | 00D2544645903 | ELECT CAP. | CE67C0J221MT(MVA) +REF        |
| 1U-3648A | C-570    |             | 00D2544645903      | 00D2544645903 | ELECT CAP. | CE67C0J221MT(MVA) +REF        |
| 1U-3648A | C-571    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF       |
| 1U-3648A | C-572    |             | nsf                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608            |
| 1U-3648A | C-573    |             | nsf                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608            |
| 1U-3648A | C-575    |             | nsf                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608            |
| 1U-3648A | C-576    |             | nsf                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608            |
| 1U-3648A | C-578    |             | nsf                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608            |
| 1U-3648A | C-580    |             | nsf                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608            |
| 1U-3648A | C-581    |             | nsf                | 00D2570516941 | CER. CAP.  | CK73B1E473KT +1608            |
| 1U-3648A | C-582    |             | nsf                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608            |
| 1U-3648A | C-583    |             | nsf                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608            |
| 1U-3648A | C-587    |             | nsf                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608            |
| 1U-3648A | C-588    |             | nsf                | 00D2570507976 | CER. CAP.  | CC73CH1H331JT +1608           |
| 1U-3648A | C-589    |             | nsf                | 00D2570520908 | CER. CAP.  | CK73B1A154KT +1608            |
| 1U-3648A | C-590    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF       |
| 1U-3648A | C-591    |             | nsf                | 00D2570507976 | CER. CAP.  | CC73CH1H331JT +1608           |
| 1U-3648A | C-592    |             | nsf                | 00D2570508917 | CER. CAP.  | CC73CH1H471JT +1608 CAPACITOR |
| 1U-3648A | C-593    |             | nsf                | 00D2570520908 | CER. CAP.  | CK73B1A154KT +1608            |
| 1U-3648A | C-594    |             | nsf                | 00D2570508917 | CER. CAP.  | CC73CH1H471JT +1608 CAPACITOR |
| 1U-3648A | C-595    |             | nsf                | 00D2570516954 | CER. CAP.  | CK73B1E104KT +1608            |
| 1U-3648A | C-596    |             | nsf                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608            |
| 1U-3648A | C-597    |             | nsf                | 00D2570506951 | CER. CAP.  | CC73CH1H101JT +1608           |
| 1U-3648A | C-598    |             | nsf                | 00D2570516909 | CER. CAP.  | CK73B1E223KT +1608            |
| 1U-3648A | C-599    |             | nsf                | 00D2570516909 | CER. CAP.  | CK73B1E223KT +1608            |
| 1U-3648A | C-600    |             | nsf                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608            |
| 1U-3648A | C-601    |             | nsf                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608            |
| 1U-3648A | C-602    |             | nsf                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608            |
| 1U-3648A | C-604    |             | nsf                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608            |
| 1U-3648A | C-605    |             | nsf                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608            |
| 1U-3648A | C-606    |             | nsf                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608            |
| 1U-3648A | C-607    |             | nsf                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608            |
| 1U-3648A | C-608    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF       |

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| PWB NAME | POS. NO. | VERS. COLOR | PART NO. (FOR EUR) | PART NO. (MZ) | PART NAME  | DESCRIPTION               |
|----------|----------|-------------|--------------------|---------------|------------|---------------------------|
| 1U-3648A | C-609    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648A | C-612    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-615    |             | nsp                | 00D2570509929 | CER. CAP.  | CK73B1H102KT +1608        |
| 1U-3648A | C-616    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-618    |             | 00D2544575905      | 00D2544575905 | ELECT CAP. | CE67C1A330MT +REF         |
| 1U-3648A | C-619    |             | nsp                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608        |
| 1U-3648A | C-620    |             | nsp                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608        |
| 1U-3648A | C-621    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648A | C-622    |             | nsp                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608        |
| 1U-3648A | C-623    |             | nsp                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608        |
| 1U-3648A | C-624    |             | nsp                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608        |
| 1U-3648A | C-625    |             | nsp                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608        |
| 1U-3648A | C-629    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648A | C-630    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648A | C-631    |             | nsp                | 00D2570510950 | CER. CAP.  | CK73B1H682KT +1608        |
| 1U-3648A | C-632    |             | nsp                | 00D2570510950 | CER. CAP.  | CK73B1H682KT +1608        |
| 1U-3648A | C-633    |             | nsp                | 00D2570509929 | CER. CAP.  | CK73B1H102KT +1608        |
| 1U-3648A | C-634    |             | nsp                | 00D2570506951 | CER. CAP.  | CC73CH1H101JT +1608       |
| 1U-3648A | C-635    |             | nsp                | 00D2570506951 | CER. CAP.  | CC73CH1H101JT +1608       |
| 1U-3648A | C-636    |             | nsp                | 00D2570501901 | CER. CAP.  | CK73B1H103KT (1608) +1608 |
| 1U-3648A | C-637    |             | nsp                | 00D2570511904 | CER. CAP.  | CK73F1H103ZT +1608        |
| 1U-3648A | C-639    |             | nsp                | 00D2570510950 | CER. CAP.  | CK73B1H682KT +1608        |
| 1U-3648A | C-701    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-702    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-703    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-704    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-705    |             | 00D2544464906      | 00D2544464906 | ELECT CAP. | CE67C0J101MT +REF         |
| 1U-3648A | C-706    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-707    |             | 00D2544464906      | 00D2544464906 | ELECT CAP. | CE67C0J101MT +REF         |
| 1U-3648A | C-708    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-709    |             | 00D2590015901      | 00D2590015901 | EMI FILTER | NFM41CC223R2A3L +C        |
| 1U-3648A | C-710    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-711    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-712    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-713    |             | 00D2544464906      | 00D2544464906 | ELECT CAP. | CE67C0J101MT +REF         |
| 1U-3648A | C-714    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-715    |             | 00D2544464906      | 00D2544464906 | ELECT CAP. | CE67C0J101MT +REF         |
| 1U-3648A | C-716    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-717    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648A | C-718    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-719    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648A | C-720    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-721    |             | 00D2544464906      | 00D2544464906 | ELECT CAP. | CE67C0J101MT +REF         |
| 1U-3648A | C-722    |             | 00D2544464906      | 00D2544464906 | ELECT CAP. | CE67C0J101MT +REF         |
| 1U-3648A | C-723    |             | 00D2544464906      | 00D2544464906 | ELECT CAP. | CE67C0J101MT +REF         |
| 1U-3648A | C-724    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-725    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648A | C-726    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-727    |             | 00D2544464906      | 00D2544464906 | ELECT CAP. | CE67C0J101MT +REF         |
| 1U-3648A | C-730    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-731    |             | nsp                | 00D2570516954 | CER. CAP.  | CK73B1E104KT +1608        |
| 1U-3648A | C-732    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648A | C-733    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-734    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-735    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-736    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648A | C-737    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-738    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648A | C-739    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-740    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648A | C-741    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-742    |             | 00D2590015901      | 00D2590015901 | EMI FILTER | NFM41CC223R2A3L +C        |
| 1U-3648A | C-743    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-744    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-745    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648A | C-746    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608        |
| 1U-3648A | C-747    |             | 00D2544464951      | 00D2544464951 | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

| PWB NAME | POS. NO. | VERS. COLOR | PART NO. (FOR EUR) | PART NO. (MZ) | PART NAME  | DESCRIPTION                    |
|----------|----------|-------------|--------------------|---------------|------------|--------------------------------|
| 1U-3648A | C-748    |             | 00D2590015901      | 00D2590015901 | EMI FILTER | NFM41CC223R2A3L +C             |
| 1U-3648A | C-749    |             | 00D2590015901      | 00D2590015901 | EMI FILTER | NFM41CC223R2A3L +C             |
| 1U-3648A | C-750    |             | 00D2590015901      | 00D2590015901 | EMI FILTER | NFM41CC223R2A3L +C             |
| 1U-3648A | C-751    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608             |
| 1U-3648A | C-752    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608             |
| 1U-3648A | C-753    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608             |
| 1U-3648A | C-764    |             | nsp                | 00D2570512903 | CER. CAP.  | CK73F1E104ZT +1608             |
| 1U-3648A | CX033    |             | nsp                | nsp           | CONN.      | 3P PH CON.BASE(L) +REF         |
| 1U-3648A | CX052    |             | nsp                | nsp           | CONN.      | 5P PH CON.BASE(L) +REF         |
| 1U-3648A | CX131    |             | nsp                | nsp           | CONN.      | 13P FFC BASE(FMNSMT) +REF      |
| 1U-3648A | CX151    |             | nsp                | nsp           | CONN.      | 15P FFC BASE(P=1.0)L +REF      |
| 1U-3648A | CX241    |             | nsp                | nsp           | CONN.      | 24P FFC BASE(FLZ-SM1 +REF      |
| 1U-3648A | CY082    |             | nsp                | nsp           | CONN.      | 8P PH CON.BASE(L) +REF         |
| 1U-3648A | CY251    |             | nsp                | nsp           | CONN.      | 25P FFC BASE(FMNSMT) +REF      |
| 1U-3648A | CY252    |             | nsp                | nsp           | CONN.      | 25P FFC BASE(FMNSMT) +REF      |
| 1U-3648A | D-501    |             | 00D2760778900      | 00D2760778900 | DIODE      | 1SS300-TE85L +C                |
| 1U-3648A | D-701    |             | 00D2760717903      | 00D2760717903 | DIODE      | 1SS355 TE-17 +C                |
| 1U-3648A | D-702    |             | 00D2760717903      | 00D2760717903 | DIODE      | 1SS355 TE-17 +C                |
| 1U-3648A | D-703    |             | 00D2760717903      | 00D2760717903 | DIODE      | 1SS355 TE-17 +C                |
| 1U-3648A | D-704    |             | 00D2760717903      | 00D2760717903 | DIODE      | 1SS355 TE-17 +C                |
| 1U-3648A | D-731    |             | 00D2760717903      | 00D2760717903 | DIODE      | 1SS355 TE-17 +C                |
| 1U-3648A | FB401    |             | 00D2350136907      | 00D2350136907 | COIL       | FBMJ1608HS280NT +1608          |
| 1U-3648A | FB402    |             | 00D2350136907      | 00D2350136907 | COIL       | FBMJ1608HS280NT +1608          |
| 1U-3648A | FB501    |             | 00D2350130903      | 00D2350130903 | COIL       | CHIP EMIFIL(11A121) +1608      |
| 1U-3648A | FB502    |             | 00D2350160902      | 00D2350160902 | COIL       | FB M J2125HM330-T +C           |
| 1U-3648A | FB503    |             | 00D2350160902      | 00D2350160902 | COIL       | FB M J2125HM330-T +C           |
| 1U-3648A | FB504    |             | 00D2350160902      | 00D2350160902 | COIL       | FB M J2125HM330-T +C           |
| 1U-3648A | FB505    |             | 00D2350160902      | 00D2350160902 | COIL       | FB M J2125HM330-T +C           |
| 1U-3648A | FB506    |             | 00D2350130903      | 00D2350130903 | COIL       | CHIP EMIFIL(11A121) +1608      |
| 1U-3648A | FB507    |             | 00D2350130903      | 00D2350130903 | COIL       | CHIP EMIFIL(11A121) +1608      |
| 1U-3648A | FB703    |             | 00D2350136907      | 00D2350136907 | COIL       | FBMJ1608HS280NT +1608          |
| 1U-3648A | FB704    |             | 00D2350160902      | 00D2350160902 | COIL       | FB M J2125HM330-T +C           |
| 1U-3648A | FB705    |             | 00D2350160902      | 00D2350160902 | COIL       | FB M J2125HM330-T +C           |
| 1U-3648A | FB706    |             | 00D2350136907      | 00D2350136907 | COIL       | FBMJ1608HS280NT +1608          |
| 1U-3648A | FB707    |             | 00D2350160902      | 00D2350160902 | COIL       | FB M J2125HM330-T +C           |
| 1U-3648A | FB708    |             | 00D2350160902      | 00D2350160902 | COIL       | FB M J2125HM330-T +C           |
| 1U-3648A | IC401    |             | 00D2623217003      | 00D2623217003 | IC         | CXD2753R +C                    |
| 1U-3648A | IC402    |             | 00D2622875006      | 00D2622875006 | IC         | 16M SDRAM(TSOP)-7/8 +C         |
| 1U-3648A | IC403    |             | 00D2623195905      | 00D2623195905 | IC         | AD8062-SO8 +C                  |
| 1U-3648A | IC404    |             | 00D2623282009      | 00D2623282009 | IC         | EPM3128ATC100-10N(HARMONY-8LI) |
| 1U-3648A | IC405    |             | 00D2623203907      | 00D2623203907 | IC         | TC7SHU04F-TE85L +REF           |
| 1U-3648A | IC406    |             | 00D2623203907      | 00D2623203907 | IC         | TC7SHU04F-TE85L +REF           |
| 1U-3648A | IC501    |             | 00D2623219001      | 00D2623219001 | IC         | CXD1881AR/BR +C                |
| 1U-3648A | IC502    |             | 00D2623218002      | 00D2623218002 | IC         | CXD1885Q +C                    |
| 1U-3648A | IC503    |             | 00D2623409002      | 00D2623409002 | IC         | MSM51V18165F-50TSK-7           |
| 1U-3648A | IC505    |             | 00D2631109909      | 00D2631109909 | IC         | AN8471SA +C                    |
| 1U-3648A | IC507    |             | 00D2621782909      | 00D2621782909 | IC         | TC7S08FTE85L +C                |
| 1U-3648A | IC508    |             | 00D2623221002      | 00D2623221002 | IC         | FAN8042 +C                     |
| 1U-3648A | IC701    |             | 00D2631079903      | 00D2631079903 | IC         | BA033FP +C                     |
| 1U-3648A | IC702    |             | 00D2631079903      | 00D2631079903 | IC         | BA033FP +C                     |
| 1U-3648A | IC703    |             | 00D2622977904      | 00D2622977904 | IC         | BA18BC0FP-E2 +C                |
| 1U-3648A | IC704    |             | 00D2631182900      | 00D2631182900 | IC         | NJM2391DL1-26-TE1 +REF         |
| 1U-3648A | IC731    |             | 00D2623280111      | 00D2623280111 | IC         | M30624FGNGP-MZ0614 +REF        |
| 1U-3648A | IC732    |             | 00D2623310900      | 00D2623310900 | IC         | T14L1024N-12J(TAPE) +REF       |
| 1U-3648A | IC733    |             | 00D2623206904      | 00D2623206904 | IC         | S-80843CLNB-B64-T2 +C          |
| 1U-3648A | IC734    |             | 00D2623197903      | 00D2623197903 | IC         | TC74VHC74FT-EL +REF            |
| 1U-3648A | IC735    |             | 00D2623200900      | 00D2623200900 | IC         | TC74VHC00FT-EL +REF            |
| 1U-3648A | IC736    |             | 00D2623198902      | 00D2623198902 | IC         | TC74VHC157FT-EL +REF           |
| 1U-3648A | IC737    |             | 00D2623388903      | 00D2623388903 | IC         | AT24C04AN-10SI-1.8 +REF        |
| 1U-3648A | R-414    |             | nsp                | 00D2472009983 | CHIP RES.  | RM73B--103JT +1608             |
| 1U-3648A | R-415    |             | nsp                | 00D2472009983 | CHIP RES.  | RM73B--103JT +1608             |
| 1U-3648A | R-416    |             | nsp                | 00D2472009983 | CHIP RES.  | RM73B--103JT +1608             |
| 1U-3648A | R-417    |             | nsp                | 00D2472009983 | CHIP RES.  | RM73B--103JT +1608             |
| 1U-3648A | R-418    |             | nsp                | 00D2472009983 | CHIP RES.  | RM73B--103JT +1608             |
| 1U-3648A | R-419    |             | nsp                | 00D2472009983 | CHIP RES.  | RM73B--103JT +1608             |
| 1U-3648A | R-420    |             | nsp                | 00D2472009983 | CHIP RES.  | RM73B--103JT +1608             |
| 1U-3648A | R-421    |             | nsp                | 00D2472009983 | CHIP RES.  | RM73B--103JT +1608             |

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| PWB NAME | POS. NO. | VERS. COLOR | PART NO. (FOR EUR) | PART NO. (MZ) | PART NAME | DESCRIPTION        |
|----------|----------|-------------|--------------------|---------------|-----------|--------------------|
| 1U-3648A | R-422    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-423    |             | nsp                | 00D2472008968 | CHIP RES. | RM73B--332JT +1608 |
| 1U-3648A | R-424    |             | nsp                | 00D2472008926 | CHIP RES. | RM73B--222JT +1608 |
| 1U-3648A | R-425    |             | nsp                | 00D2472008913 | CHIP RES. | RM73B--202JT +1608 |
| 1U-3648A | R-426    |             | nsp                | 00D2472008913 | CHIP RES. | RM73B--202JT +1608 |
| 1U-3648A | R-433    |             | nsp                | 00D2472008926 | CHIP RES. | RM73B--222JT +1608 |
| 1U-3648A | R-435    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-437    |             | nsp                | 00D2472003947 | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648A | R-438    |             | nsp                | 00D2472003947 | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648A | R-439    |             | nsp                | 00D2472003947 | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648A | R-440    |             | nsp                | 00D2472003947 | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648A | R-441    |             | nsp                | 00D2472003947 | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648A | R-442    |             | nsp                | 00D2472003947 | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648A | R-443    |             | nsp                | 00D2472003947 | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648A | R-444    |             | nsp                | 00D2472003947 | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648A | R-445    |             | nsp                | 00D2472003947 | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648A | R-446    |             | nsp                | 00D2472003947 | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648A | R-447    |             | nsp                | 00D2472003947 | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648A | R-448    |             | nsp                | 00D2472003947 | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648A | R-449    |             | nsp                | 00D2472003947 | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648A | R-459    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-460    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-461    |             | nsp                | 00D2472008942 | CHIP RES. | RM73B--272JT +1608 |
| 1U-3648A | R-464    |             | nsp                | 00D2472003989 | CHIP RES. | RM73B--330JT +1608 |
| 1U-3648A | R-465    |             | nsp                | 00D2472003989 | CHIP RES. | RM73B--330JT +1608 |
| 1U-3648A | R-466    |             | nsp                | 00D2472014965 | CHIP RES. | RM73B--105JT +1608 |
| 1U-3648A | R-467    |             | nsp                | 00D2472006944 | CHIP RES. | RM73B--391JT +1608 |
| 1U-3648A | R-471    |             | nsp                | 00D2472008926 | CHIP RES. | RM73B--222JT +1608 |
| 1U-3648A | R-472    |             | nsp                | 00D2472008926 | CHIP RES. | RM73B--222JT +1608 |
| 1U-3648A | R-473    |             | nsp                | 00D2472008926 | CHIP RES. | RM73B--222JT +1608 |
| 1U-3648A | R-474    |             | nsp                | 00D2472008926 | CHIP RES. | RM73B--222JT +1608 |
| 1U-3648A | R-475    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-476    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-501    |             | nsp                | 00D2472004988 | CHIP RES. | RM73B--820JT +1608 |
| 1U-3648A | R-502    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-505    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-506    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-508    |             | nsp                | 00D2472007985 | CHIP RES. | RM73B--152JT +1608 |
| 1U-3648A | R-509    |             | nsp                | 00D2472007985 | CHIP RES. | RM73B--152JT +1608 |
| 1U-3648A | R-510    |             | nsp                | 00D2472007985 | CHIP RES. | RM73B--152JT +1608 |
| 1U-3648A | R-511    |             | nsp                | 00D2472007985 | CHIP RES. | RM73B--152JT +1608 |
| 1U-3648A | R-512    |             | nsp                | 00D2472007985 | CHIP RES. | RM73B--152JT +1608 |
| 1U-3648A | R-513    |             | nsp                | 00D2472007985 | CHIP RES. | RM73B--152JT +1608 |
| 1U-3648A | R-514    |             | nsp                | 00D2472007985 | CHIP RES. | RM73B--152JT +1608 |
| 1U-3648A | R-515    |             | nsp                | 00D2472007985 | CHIP RES. | RM73B--152JT +1608 |
| 1U-3648A | R-516    |             | nsp                | 00D2472004946 | CHIP RES. | RM73B--560JT +1608 |
| 1U-3648A | R-517    |             | nsp                | 00D2472004946 | CHIP RES. | RM73B--560JT +1608 |
| 1U-3648A | R-518    |             | nsp                | 00D2472004946 | CHIP RES. | RM73B--560JT +1608 |
| 1U-3648A | R-519    |             | nsp                | 00D2472004946 | CHIP RES. | RM73B--560JT +1608 |
| 1U-3648A | R-520    |             | nsp                | 00D2472004920 | CHIP RES. | RM73B--470JT +1608 |
| 1U-3648A | R-521    |             | nsp                | 00D2472004920 | CHIP RES. | RM73B--470JT +1608 |
| 1U-3648A | R-522    |             | nsp                | 00D2472004920 | CHIP RES. | RM73B--470JT +1608 |
| 1U-3648A | R-523    |             | nsp                | 00D2472004920 | CHIP RES. | RM73B--470JT +1608 |
| 1U-3648A | R-524    |             | nsp                | 00D2472012941 | CHIP RES. | RM73B--124JT +1608 |
| 1U-3648A | R-527    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-528    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-534    |             | nsp                | 00D2472012941 | CHIP RES. | RM73B--124JT +1608 |
| 1U-3648A | R-536    |             | nsp                | 00D2472007943 | CHIP RES. | RM73B--102JT +1608 |
| 1U-3648A | R-537    |             | nsp                | 00D2472012925 | CHIP RES. | RM73B--104JT +1608 |
| 1U-3648A | R-538    |             | nsp                | 00D2472005961 | CHIP RES. | RM73B--181JT +1608 |
| 1U-3648A | R-539    |             | nsp                | 00D2472011942 | CHIP RES. | RM73B--473JT +1608 |
| 1U-3648A | R-540    |             | nsp                | 00D2472012925 | CHIP RES. | RM73B--104JT +1608 |
| 1U-3648A | R-542    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-544    |             | nsp                | 00D2472007943 | CHIP RES. | RM73B--102JT +1608 |
| 1U-3648A | R-545    |             | nsp                | 00D2472019960 | CHIP RES. | RM73B--123FT +1608 |
| 1U-3648A | R-549    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-550    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |

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| PWB NAME | POS. NO. | VERS. COLOR | PART NO. (FOR EUR) | PART NO. (MZ) | PART NAME | DESCRIPTION        |
|----------|----------|-------------|--------------------|---------------|-----------|--------------------|
| 1U-3648A | R-551    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-552    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-553    |             | nsp                | 00D2472011900 | CHIP RES. | RM73B--333JT +1608 |
| 1U-3648A | R-554    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-555    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-556    |             | nsp                | 00D2472007943 | CHIP RES. | RM73B--102JT +1608 |
| 1U-3648A | R-557    |             | nsp                | 00D2472010969 | CHIP RES. | RM73B--223JT +1608 |
| 1U-3648A | R-558    |             | nsp                | 00D2472008900 | CHIP RES. | RM73B--182JT +1608 |
| 1U-3648A | R-559    |             | nsp                | 00D2472012925 | CHIP RES. | RM73B--104JT +1608 |
| 1U-3648A | R-560    |             | nsp                | 00D2472011942 | CHIP RES. | RM73B--473JT +1608 |
| 1U-3648A | R-561    |             | nsp                | 00D2472011984 | CHIP RES. | RM73B--683JT +1608 |
| 1U-3648A | R-562    |             | nsp                | 00D2472006960 | CHIP RES. | RM73B--471JT +1608 |
| 1U-3648A | R-563    |             | nsp                | 00D2472012967 | CHIP RES. | RM73B--154JT +1608 |
| 1U-3648A | R-564    |             | nsp                | 00D2472011942 | CHIP RES. | RM73B--473JT +1608 |
| 1U-3648A | R-565    |             | nsp                | 00D2472011968 | CHIP RES. | RM73B--563JT +1608 |
| 1U-3648A | R-566    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-567    |             | nsp                | 00D2472003989 | CHIP RES. | RM73B--330JT +1608 |
| 1U-3648A | R-568    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-570    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-571    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-574    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-577    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-583    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-584    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-585    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-586    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-587    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-588    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-589    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-590    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-591    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-592    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-593    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-594    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-595    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-596    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-597    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-598    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-599    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-601    |             | nsp                | 00D2472010969 | CHIP RES. | RM73B--223JT +1608 |
| 1U-3648A | R-603    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-604    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-605    |             | nsp                | 00D2472018916 | CHIP RES. | RM73B--010KT +1608 |
| 1U-3648A | R-606    |             | nsp                | 00D2472018916 | CHIP RES. | RM73B--010KT +1608 |
| 1U-3648A | R-607    |             | nsp                | 00D2472018916 | CHIP RES. | RM73B--010KT +1608 |
| 1U-3648A | R-608    |             | nsp                | 00D2472018916 | CHIP RES. | RM73B--010KT +1608 |
| 1U-3648A | R-609    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-611    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-612    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-613    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-614    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-615    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-616    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-617    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-618    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-620    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-621    |             | nsp                | 00D2472003947 | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648A | R-622    |             | nsp                | 00D2472003947 | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648A | R-623    |             | nsp                | 00D2472003947 | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648A | R-624    |             | nsp                | 00D2472003947 | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648A | R-625    |             | nsp                | 00D2472003947 | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648A | R-626    |             | nsp                | 00D2472003947 | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648A | R-627    |             | nsp                | 00D2472003947 | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648A | R-628    |             | nsp                | 00D2472003947 | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648A | R-629    |             | nsp                | 00D2472003947 | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648A | R-630    |             | nsp                | 00D2472003947 | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648A | R-631    |             | nsp                | 00D2472003947 | CHIP RES. | RM73B--220JT +1608 |

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.



| PWB NAME | POS. NO. | VERS. COLOR | PART NO. (FOR EUR) | PART NO. (MZ) | PART NAME | DESCRIPTION        |
|----------|----------|-------------|--------------------|---------------|-----------|--------------------|
| 1U-3648A | R-632    |             | nsp                | 00D2472003947 | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648A | R-633    |             | nsp                | 00D2472003947 | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648A | R-634    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-635    |             | nsp                | 00D2472003989 | CHIP RES. | RM73B--330JT +1608 |
| 1U-3648A | R-636    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-637    |             | nsp                | 00D2472003989 | CHIP RES. | RM73B--330JT +1608 |
| 1U-3648A | R-638    |             | nsp                | 00D2472003989 | CHIP RES. | RM73B--330JT +1608 |
| 1U-3648A | R-639    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-640    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-641    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-642    |             | nsp                | 00D2472003989 | CHIP RES. | RM73B--330JT +1608 |
| 1U-3648A | R-643    |             | nsp                | 00D2472003989 | CHIP RES. | RM73B--330JT +1608 |
| 1U-3648A | R-644    |             | nsp                | 00D2472003989 | CHIP RES. | RM73B--330JT +1608 |
| 1U-3648A | R-645    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-646    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-647    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-649    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-650    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-651    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-652    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-653    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-654    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-655    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-656    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-657    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-658    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-659    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-666    |             | nsp                | 00D2472010969 | CHIP RES. | RM73B--223JT +1608 |
| 1U-3648A | R-667    |             | nsp                | 00D2472010969 | CHIP RES. | RM73B--223JT +1608 |
| 1U-3648A | R-668    |             | nsp                | 00D2472010969 | CHIP RES. | RM73B--223JT +1608 |
| 1U-3648A | R-669    |             | nsp                | 00D2472010969 | CHIP RES. | RM73B--223JT +1608 |
| 1U-3648A | R-670    |             | nsp                | 00D2472009912 | CHIP RES. | RM73B--512JT +1608 |
| 1U-3648A | R-671    |             | nsp                | 00D2472011968 | CHIP RES. | RM73B--563JT +1608 |
| 1U-3648A | R-672    |             | nsp                | 00D2472011968 | CHIP RES. | RM73B--563JT +1608 |
| 1U-3648A | R-673    |             | nsp                | 00D2472011968 | CHIP RES. | RM73B--563JT +1608 |
| 1U-3648A | R-674    |             | nsp                | 00D2472011900 | CHIP RES. | RM73B--333JT +1608 |
| 1U-3648A | R-675    |             | nsp                | 00D2472011900 | CHIP RES. | RM73B--333JT +1608 |
| 1U-3648A | R-676    |             | nsp                | 00D2472011900 | CHIP RES. | RM73B--333JT +1608 |
| 1U-3648A | R-677    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-678    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-679    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-680    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-681    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-682    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-683    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-684    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-685    |             | nsp                | 00D2472018903 | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648A | R-686    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-687    |             | nsp                | 00D2472013982 | CHIP RES. | RM73B--474JT +1608 |
| 1U-3648A | R-688    |             | nsp                | 00D2472008926 | CHIP RES. | RM73B--222JT +1608 |
| 1U-3648A | R-689    |             | nsp                | 00D2472007943 | CHIP RES. | RM73B--102JT +1608 |
| 1U-3648A | R-690    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-691    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-692    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-693    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-694    |             | nsp                | 00D2472005903 | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648A | R-699    |             | nsp                | 00D2472010969 | CHIP RES. | RM73B--223JT +1608 |
| 1U-3648A | R-732    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-733    |             | nsp                | 00D2472009941 | CHIP RES. | RM73B--682JT +1608 |
| 1U-3648A | R-734    |             | nsp                | 00D2472009967 | CHIP RES. | RM73B--822JT +1608 |
| 1U-3648A | R-735    |             | nsp                | 00D2472008984 | CHIP RES. | RM73B--392JT +1608 |
| 1U-3648A | R-736    |             | nsp                | 00D2472005987 | CHIP RES. | RM73B--221JT +1608 |
| 1U-3648A | R-737    |             | nsp                | 00D2472010969 | CHIP RES. | RM73B--223JT +1608 |
| 1U-3648A | R-739    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648A | R-740    |             | nsp                | 00D2472002964 | CHIP RES. | RM73B--100JT +1608 |
| 1U-3648A | R-743    |             | nsp                | 00D2472009925 | CHIP RES. | RM73B--562JT +1608 |
| 1U-3648A | R-744    |             | nsp                | 00D2472010969 | CHIP RES. | RM73B--223JT +1608 |

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| PWB NAME | POS. NO. | VERS. COLOR | PART NO. (FOR EUR) | PART NO. (MZ) | PART NAME | DESCRIPTION              |
|----------|----------|-------------|--------------------|---------------|-----------|--------------------------|
| 1U-3648A | R-745    |             | nsp                | 00D2472010969 | CHIP RES. | RM73B--223JT +1608       |
| 1U-3648A | R-746    |             | nsp                | 00D2472010969 | CHIP RES. | RM73B--223JT +1608       |
| 1U-3648A | R-747    |             | nsp                | 00D2472010969 | CHIP RES. | RM73B--223JT +1608       |
| 1U-3648A | R-748    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608       |
| 1U-3648A | R-749    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608       |
| 1U-3648A | R-750    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608       |
| 1U-3648A | R-751    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608       |
| 1U-3648A | R-752    |             | nsp                | 00D2472007943 | CHIP RES. | RM73B--102JT +1608       |
| 1U-3648A | R-753    |             | nsp                | 00D2472007943 | CHIP RES. | RM73B--102JT +1608       |
| 1U-3648A | R-754    |             | nsp                | 00D2472007943 | CHIP RES. | RM73B--102JT +1608       |
| 1U-3648A | R-762    |             | nsp                | 00D2472009983 | CHIP RES. | RM73B--103JT +1608       |
| 1U-3648A | R-763    |             | nsp                | 00D2472010969 | CHIP RES. | RM73B--223JT +1608       |
| 1U-3648A | R-766    |             | nsp                | 00D2472010969 | CHIP RES. | RM73B--223JT +1608       |
| 1U-3648A | R-767    |             | nsp                | 00D2472003989 | CHIP RES. | RM73B--330JT +1608       |
| 1U-3648A | R-768    |             | nsp                | 00D2472003989 | CHIP RES. | RM73B--330JT +1608       |
| 1U-3648A | R-769    |             | nsp                | 00D2472003989 | CHIP RES. | RM73B--330JT +1608       |
| 1U-3648A | R-770    |             | nsp                | 00D2472003989 | CHIP RES. | RM73B--330JT +1608       |
| 1U-3648A | R-771    |             | nsp                | 00D2472003989 | CHIP RES. | RM73B--330JT +1608       |
| 1U-3648A | R-772    |             | nsp                | 00D2472003989 | CHIP RES. | RM73B--330JT +1608       |
| 1U-3648A | R-773    |             | nsp                | 00D2472003989 | CHIP RES. | RM73B--330JT +1608       |
| 1U-3648A | R-774    |             | nsp                | 00D2472003989 | CHIP RES. | RM73B--330JT +1608       |
| 1U-3648A | RA401    |             | 00D2479003908      | 00D2479003908 | CHIP RES. | MNR14=220JE0AB +C        |
| 1U-3648A | RA402    |             | 00D2479003908      | 00D2479003908 | CHIP RES. | MNR14=220JE0AB +C        |
| 1U-3648A | RA501    |             | 00D2479007917      | 00D2479007917 | CHIP RES. | MNR14=103JE0 +C          |
| 1U-3648A | RA502    |             | 00D2479007917      | 00D2479007917 | CHIP RES. | MNR14=103JE0 +C          |
| 1U-3648A | RA503    |             | 00D2479007917      | 00D2479007917 | CHIP RES. | MNR14=103JE0 +C          |
| 1U-3648A | RA504    |             | 00D2479007917      | 00D2479007917 | CHIP RES. | MNR14=103JE0 +C          |
| 1U-3648A | TR511    |             | 00D2720166905      | 00D2720166905 | TRS.      | 2SB798(DL/DK)-T1 +C      |
| 1U-3648A | TR512    |             | 00D2720166905      | 00D2720166905 | TRS.      | 2SB798(DL/DK)-T1 +C      |
| 1U-3648A | TR513    |             | 00D2730384900      | 00D2730384900 | TRS.      | 2SC2412KT96(S) +C        |
| 1U-3648A | X-401    |             | 00D3990901902      | 00D3990901902 | X'TAL     | XTAL(33.8688/HK-49) +REF |
| 1U-3648A | X-731    |             | 00D3990887903      | 00D3990887903 | X'TAL     | CSTCE16MOV53-R0 +2125    |

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