

# Service Manual

Blu-ray Disc Player

Model No. **DMP-BD30PP**  
**DMP-BD30PL**



Vol. 2  
Colour  
(K).....Black Type

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## ⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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# 1 Safety Precaution

## 1.1. General guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

### 1.1.1. Leakage current cold check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between  $1M\Omega$  and  $5.2M\Omega$ .

When the exposed metal does not have a return path to the chassis, the reading must be  $\infty$ .

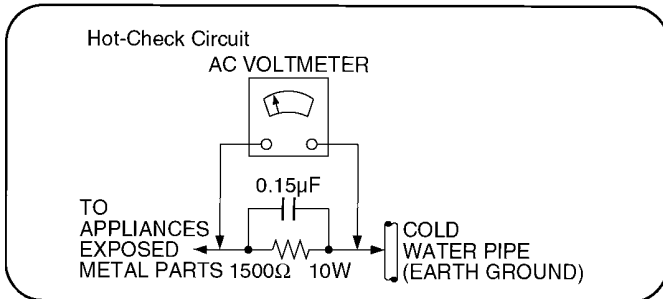


Figure 1

### 1.1.2. Leakage current hot check (See Figure 1.)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a  $1.5k\Omega$ , 10 watts resistor, in parallel with a  $0.15\mu\text{F}$  capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed  $1/2$  milliamperere. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

## 1.2. Caution for fuse replacement

(For English)

### CAUTION:

Replace with the same type fuse:  
(Manufacturer: Hollyland, Type: 50T, 1.6A, 250V)

(For Canadian French)

### ATTENTION:

Utiliser un fusible de rechange de même type:  
(Fabricant: Hollyland, Type: 50T, 1.6A, 250V)

## 2 Warning

### 2.1. Prevention of Electrostatic Discharge (ESD) to Electrostatic Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatic Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistor-and semiconductor **chip** components. The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as **anti-static (ESD protected)** can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

#### Caution

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

#### IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by  $\triangle$  in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

## 2.2. Service caution based on legal restrictions

### 2.2.1. General description about Lead Free Solder (PbF)

The lead free solder has been used in the mounting process of all electrical components on the printed circuit boards used for this equipment in considering the globally environmental conservation.

The normal solder is the alloy of tin (Sn) and lead (Pb). On the other hand, the lead free solder is the alloy mainly consists of tin (Sn), silver (Ag) and Copper (Cu), and the melting point of the lead free solder is higher approx.30 degrees C (86°F) more than that of the normal solder.

#### Definition of PCB Lead Free Solder being used

The letter of "PbF" is printed either foil side or components side on the PCB using the lead free solder. (See right figure)	<b>PbF</b>
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#### Service caution for repair work using Lead Free Solder (PbF)

- The lead free solder has to be used when repairing the equipment for which the lead free solder is used.  
(Definition: The letter of **PbF** is printed on the PCB using the lead free solder.)
- To put lead free solder, it should be well molten and mixed with the original lead free solder.
- Remove the remaining lead free solder on the PCB cleanly for soldering of the new IC.
- Since the melting point of the lead free solder is higher than that of the normal lead solder, it takes the longer time to melt the lead free solder.
- Use the soldering iron (more than 70W) equipped with the temperature control after setting the temperature at 350±30 degrees C (662±86°F).

#### Recommended Lead Free Solder (Service Parts Route.)

- The following 3 types of lead free solder are available through the service parts route.
  - RFKZ03D01K----- (0.3mm 100g Reel)
  - RFKZ06D01K----- (0.6mm 100g Reel)
  - RFKZ10D01K----- (1.0mm 100g Reel)

#### Note

- \* Ingredient: tin (Sn), 96.5%, silver (Ag) 3.0%, Copper (Cu) 0.5%, Cobalt (Co) / Germanium (Ge) 0.1 to 0.3%

### 3 Specifications

Power supply	AC120 V, 60 Hz
Power consumption	Approx. 25 W
Power consumption in standby mode	Less than 1 W
Optical pick-up	System with 2 lenses, (405 nm wavelength for BDs, 662 nm wavelength for DVDs, 785 nm wavelength for CDs)
Media	
Playable discs	<p>BD-Video BD-ROM Version 2 (Final Standard Profile)</p> <p>BD-RE Version 3 (Single Layer/Dual Layer, JPEG)</p> <p>BD-R Version 2 (Single Layer/Dual Layer)</p> <p>DVD - RAM DVD Video Recording format, AVCHD format, JPEG</p> <p>DVD-R/ DVD-R DL/ DVD-RW DVD-Video format(*1), DVD Video Recording format, AVCHD format(*1)</p> <p>+R/+R DL/ +RW Video(*1), AVCHD format(*1)</p> <p>DVD-VIDEO DVD-Video format</p> <p>CD-Audio CD-DA</p> <p>CD-R/CD-RW CD-DA, JPEG(*2), MP3(*2)</p> <p>(*1) Finalizing is necessary. (*2) ISO9660 level 1 or 2 (except for extended formats), Joliet. This unit is compatible with multi-session. This unit is not compatible with packet writing.</p>
SD Card	<p>SD Memory Card (*3) formatted FAT12, FAT16, FAT32 (*4)</p> <p>JPEG, AVCHD format</p> <p>(*3) includes SDHC card includes miniSD™ cards (need a miniSD™ adaptor) includes microSD™ cards (need a microSD™ adaptor)</p> <p>(*4) not support long file name.</p>
Contents	
JPEG SD card CD-R/RW DVD-RAM BD-RE	<p>Pixels: 34x34 ~ 5120x3840</p> <p>Sub sampling: 4:2:2, 4:2:0</p> <p>motion JPEG not supported</p> <p>SD card: JPEG conforming DCF (Design rule for Camera File System)</p> <p>Thawing Time: Approx. 2sec (7M pixels)</p> <p>Maximum numbers of folders and files; Maximum folders: 99(CD) / 300(SD card) / 300(DVD-RAM) / 300(BD-RE)</p> <p>Maximum files: 999(CD) / 3000(SD card) / 3000(DVD-RAM) / 9999(BD-RE)</p>
MP3 (CD-R/RW)	<p>Compression rate: 32kbps ~ 320kbps</p> <p>Sampling rate: 16kHz, 22.05kHz, 24kHz, 32kHz, 44.1kHz, 48kHz</p>
AVCHD (H.264) (SD card, DVD)	AVCHD format V1.0
Playable discs	<p>BD-ROM(SL/DL): compliant Ver.1.3</p> <p>BD-RE(SL/DL): BD-MV</p> <p>BD-R(SL/DL): BD-MV</p> <p>DVD-ROM(SL/DL): DVD-Video</p> <p>DVD-RAM: DVD-VR</p> <p>DVD-R: DVD-Video</p> <p>DVD-R(DL): DVD-Video</p> <p>DVD-RW: DVD-Video</p> <p>+R: Video</p> <p>+R(DL): Video</p> <p>+RW: Video</p> <p>CD-ROM, CD-R/RW: CD-DA</p>

HDMI	480p(525p)/1080i(1125i)/720p(750p)/1080p(1125p) HDMI™ (Deep color™, High Bit rate Audio) HDAVI (EZ-sync) Ver.2
Region number	Region No.1(PP), No.4(PL): DVD-Video Region No.A: BD-Video
Signal system	NTSC
Video output	Output level: 1.0 Vp-p (75 Ω) Output connector: Pin jack (1 system)
S - video output	Y output level: 1.0 Vp-p (75 Ω) C output level: 0.286 Vp-p (75 Ω) at Burst Output connector: S terminal (1 system)
Component video output (1080i/720p/480p/480i)	Y output level: 1.0 Vp-p (75 Ω) P <sub>B</sub> output level: 0.7 Vp-p (75 Ω) P <sub>R</sub> output level: 0.7 Vp-p (75 Ω) Output connector: Pin jack (Y: green, P <sub>B</sub> : blue, P <sub>R</sub> : red) (1 system)
Audio output	Output level: 2 Vrms (1 kHz 0 dB) Output connector: Pin jack Number of connectors(PP): 2 channel; 2 system (PL): 2 channel; 1 system 5.1 channel discrete output (5.1 channel); 1 system
Audio performance	<p>Frequency response</p> <ul style="list-style-type: none"> <li>DVD (linear audio) 4 Hz - 22 kHz (48kHz sampling) 4 Hz - 44 kHz (96kHz sampling)</li> <li>CD-Audio 4 Hz - 20 kHz</li> </ul> <p>S/N ratio 115dB</p> <p>Dynamic range 100dB</p> <p>Total harmonic distortion 0.003%</p>
Digital audio output	Optical digital output Optical terminal Coaxial digital output Pin jack
HDMI AV output	Outputformat 1080p/1080i/720p/480p Output Connector TypeA(19pin)
Others	
Dimensions	<p>Excluding the projecting parts: 430 (W) × 59 (H) × 313 (D) mm [Approx. 16 15/16 "(W) x 2 5/16" (H) × 12 5/16" (D)]</p> <p>Including the projecting parts: 430 (W) × 85 (H) × 320 (D) mm [Approx. 16 15/16 "(W) x 3 3/8" (H) × 12 5/8" (D)]</p>
Mass	Approx. 3.3 kg (7.3 lbs)
Operating Temperature range	5°C - 35°C (41°F - 95°F)
Operating Humidity range	10 %-80 % RH (no condensation)
LASER Specification	
Wave Length	405 nm(BDs), 662 nm(DVDs), 785 nm(CDs)
Laser Power	No hazardous radiation is emitted with the safety protection.
Solder	These models use lead free solder (PbF)

**Notes** : Mass and dimensions are approximate.  
Specifications are subject to change without notice.

## 4 Service Mode

### 4.1. Self-Diagnosis and Special Mode Setting

#### 4.1.1. Self-Diagnosis Functions

Self-Diagnosis Function provides information for errors to service personnel by **Self-Diagnosis Display** when any error has occurred.

**U\*\*, H\*\* and F\*\* are stored in memory and held.**

You can check latest error code by transmitting [0] [1] of Remote Controller in Service Mode.

Automatic Display on FL will be cancelled when the power is turned off or AC input is turned off during self-diagnosis display is ON.

Error Code	Diagnosis contents	Description	Monitor Display	Automatic FL display
U30	Remote control code error	Display appears when main unit and remote controller codes are not matched.	No display	<div style="border: 1px solid black; padding: 5px; display: inline-block;">SET *</div> * is remote controller code of the main unit. Display for 5 seconds.
U59	Abnormal inner temperature detected	Display appears when the drive temperature exceeds 70°C. The power is turned off forcibly. For 30 minutes after this, all key entries are disabled. (Fan motor operates at the highest speed for the first 5 minutes. For the remaining 25 minutes, fan motor is also stopped.) The event is saved in memory as well.	No display	<div style="border: 1px solid black; padding: 5px; display: inline-block;">U59</div> <b>U59</b> is displayed for 30 minutes.
U71	HDMI incompatible error (HDCP incompatible)	Display this error when the equipment (compatible with DVI such as TV, amplifier etc.) connected to the unit by HDMI is incompatible with HDCP. *HDCP=High-bandwidth Digital Content Protection	No display	<div style="border: 1px solid black; padding: 5px; display: inline-block;">U71</div>
U72	HDMI connection error (communication error)	This error is displayed when there are any communication problems with the unit and the equipments (TV, amplifier etc.) connected to the unit by HDMI. (or when there is a problem with the HDMI cable)	No display	<div style="border: 1px solid black; padding: 5px; display: inline-block;">U72</div> U72 display disappears when error has been solved by Power OFF/ON of connecting equipment or by inserting/removing of HDMI cable.
U73	HDMI connection error (authentication error)	when authentication error occurs while the equipments (TV, amplifier etc.) are connected by HDMI. (or when there is a problem with the HDMI cable)	No display	<div style="border: 1px solid black; padding: 5px; display: inline-block;">U73</div> U73 display disappears when error has been solved by Power OFF/ON of connecting equipment or by inserting/removing of HDMI cable.
F99	Hang-up	Displayed when communication error has occurred between Main microprocessor (MV2-PLUS (IC60009)) and Timer microprocessor (IC7501).	No display	<div style="border: 1px solid black; padding: 5px; display: inline-block;">F99</div> Displayed is left until the [POWER] key is pressed.
H19	Inoperative fan motor	When inoperative fan motor is detected after powered on, the power is turned off automatically. The event is saved in memory.	No display	No display
F00	No error information	Initial setting for error code in memory (Error code Initialization is possible with error code initialization and main unit initialization.)	No display	No display
F34	Initialization error when main microprocessor is started up for program recording	When initialization error is detected after starting up main microprocessor MV2-PLUS (IC60009), the power is turned off automatically. The event is saved in memory.	No display	No display
F58	Drive hardware error	When drive unit error is detected, the event is saved in memory.	No display	No display

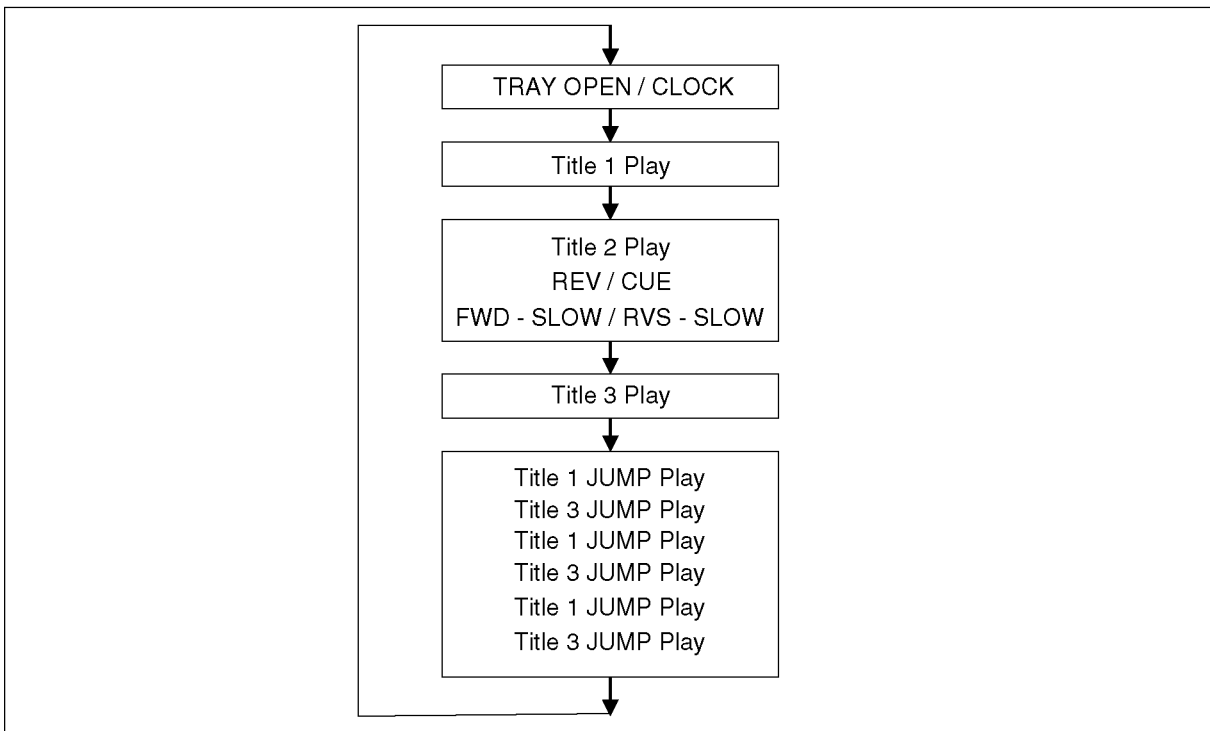
Error Code	Diagnosis contents	Description	Monitor Display	Automatic FL display
UNSUPPORT	Unsupported disc error	*An unsupported format disc was played, although the drive starts normally. *The data format is not supported, although the media type is supported. *Exceptionally in case of the disc is dirty.	<b>This disc is incompatible.</b>	<div style="border: 1px solid black; padding: 5px; text-align: center;">UNSUP</div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">PORT</div> Display for 5 seconds.
NO READ	Disc read error	*A disc is flawed or dirty. *A poor quality failed to start. *The track information could not be read.	<b>Cannot read. Please check the disc.</b>	<div style="border: 1px solid black; padding: 5px; text-align: center;">NOREAD</div>
HARD ERR	Drive error	The drive detected a hard error.	<b>DVD drive error.</b>	Display for 5 seconds. <div style="border: 1px solid black; padding: 5px; text-align: center;">HARD</div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">ERR</div>
IR ERR	IR communication error	[IR ERR] is displayed when communication between Timer microprocessor and IR microprocessor fails.	No display	<div style="border: 1px solid black; padding: 5px; text-align: center;">IR ERR</div>
SELF CHECK	Restoration operation	Since the power cord fell out during a power failure or operation, it is under restoration operation. *It will OK, if a display disappears automatically. If a display does not disappear, there is the possibility that defective Digital P.C.B. / DVD drive.	No display	<div style="border: 1px solid black; padding: 5px; text-align: center;">SELF</div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">CHECK</div>
PLEASE WAIT	Unit is in termination process	Unit is in termination process now. <b>BYE</b> is displayed and power will be turned off.	No display	<div style="border: 1px solid black; padding: 5px; text-align: center;">PLEASE</div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">WAIT</div>
UNFORMAT	Unformatted disc error	You have inserted an unformatted DVD-RAM or DVD-RW that is unformatted or recorded on other equipment.	The disc is not formatted properly.	<div style="border: 1px solid black; padding: 5px; text-align: center;">UNFOR</div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">MAT</div>
No PLAY	When there is a viewing restriction on a BD-Video or DVD-Video.	Rating password is set.	No display	<div style="border: 1px solid black; padding: 5px; text-align: center;">No PLAY</div>

#### 4.1.2. Special Modes Setting



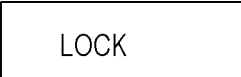

Item		FL display	Key operation
Mode name	Description		Front Key
TEST Mode	*All the main unit's parameters are initialized.	<div style="border: 1px solid black; padding: 5px; text-align: center;">TEST</div>	Press [STOP], [SKIP FWD] and [OPEN/CLOSE] keys simultaneously for five seconds when power is off.
Rating password	The audiovisual level setting password is initialized to <b>Level 8</b> .	<div style="border: 1px solid black; padding: 5px; text-align: center;">INIT</div>	Open the tray, and press [SKIP REV] and [PLAY] simultaneously for 5 seconds.
Service Mode	Setting every kind of modes for servicing. *Details are described in <b>4.1.3. Service Mode at a glance</b> .	<div style="border: 1px solid black; padding: 5px; text-align: center;">SERV</div>	When the power is off, press [SKIP FWD], [OPEN/CLOSE] and [PAUSE] keys simultaneously for 5 seconds.
BD-ROM history cleaning	< Persistent Storage > of BD-ROM standard is cleaned. Screen display: [The player's history data has been cleared] is displayed for five seconds.	<div style="border: 1px solid black; padding: 5px; text-align: center;">*****</div> Same display as before execution.	When disc is not in tray, press [STOP] and [POWER] keys simultaneously for 5 seconds.
Forced disc eject	Removing a disc that cannot be ejected. The tray will open and unit will shift to P-off mode. While Demonstration Lock is being set, this Forced disc eject function is not accepted.	The display before execution leaves. <div style="border: 1px solid black; padding: 5px; text-align: center;">*****</div>	When the power is off, press [SKIP FWD] and [PAUSE] keys simultaneously for 5 seconds.

Item		FL display	Key operation
Mode name	Description		Front Key
Forced power-off	When the power button is not effective while power is ON, turn off the power forcibly.	Display in P-off mode.	Press [POWER] key over than 10 seconds.
Aging	Perform sequence of modes as * Aging Description shown below continually.	Display following the then mode.	<p>When the power is ON, press [STOP], [POWER] and [OPEN/CLOSE] simultaneously for over 5 seconds and less than 10 seconds.</p> <p><b>NOTE1:</b> If Unit has not turned into Aging mode by operations shown above, execute TEST MODE once and re-execute operation shown above. (*All the main unit's parameters include tuner are initialized by TEST mode.)</p> <p><b>NOTE2:</b> If the unit has hung-up because of pressing keys for over 10 seconds, once turn off the power, and re-execute this command. *When releasing Aging mode, press [POWER] key over 10 seconds.</p>

**Aging Contents (Example):**





Item		FL display	Key operation
Mode name	Description		Front Key
Demonstration lock/unlock	Ejection of the disc is prohibited. The lock setting is effective until unlocking the tray and not released by Main unit initialization of service mode.	*When lock the tray.  LOCK is displayed for 3 seconds.	When the power is on (SS mode), press [SKIP FWD] and [OPEN/CLOSE] keys simultaneously for 5 seconds. <b>Note:</b> When a disc is not in tray, this setting is not effective.
		*When unlock the tray.  UNLOCK is displayed for 3 seconds.	When the power is on (SS mode), press [SKIP FWD] and [OPEN/CLOSE] keys simultaneously for 5 seconds.
		*When press OPEN/CLOSE key while the tray being locked.  Display LOCK for 3 seconds.	Press [OPEN/CLOSE] key while the tray is being locked.
Progressive initialization	The progressive setting is initialized to Interlace.	The display before execution leaves. 	When the power is on (SS mode), press [STOP] and [PLAY] simultaneously for 5 seconds.

### 4.1.3. Service Modes at a glance

Service mode setting: While the power is off, press [SKIP FWD], [PAUSE] and [OPEN / CLOSE] simultaneously for five seconds.

Item		FL display	Key operation (Remote controller key)
Mode name	Description		
Release Items	Item of Service Mode executing is cancelled.	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">SERV</div>	Press [0] [0] or [Return] in service mode.
Error Code Display	Last Error Code of U/H/F held by Timer is displayed on FL. *Details are described in <b>4.1.1. Self-Diagnosis Functions</b> .	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">♣ □□</div> <p>*♣ shows U/H/F. □□ shows number.</p> <p>If any error history dose not exist, [F00] is displayed.</p>	Press [0] [1] in service mode
ROM Version Display	1. Region code (displayed for 5 sec.) 2. Main firm version (displayed for 5 sec.) 3. Timer firm version (displayed for 5 sec.) 4. Drive firm version (displayed for 5 sec.) 5. ROM correction version (left displayed)	<p>1. <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">NO\$%</div></p> <p>\$: Region of DVD (Example: 1,2.....) %: Region of BD (Example: A,B.....)</p> <p>2. <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">****</div></p> <p>3. <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">*****</div></p> <p>4. <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">****</div></p> <p>5. <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">***</div></p> <p>* are version displays.</p>	Press [0] [2] in service mode
Drive check	Simply quality of BD/DVD drive.	<p>When BD/DVD drive is OK</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">DRV OK</div> <p>When BD/DVD drive is NG</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">DRV NG</div> <p>*If the date of the present or the trouble occurred time is incorrect, it may be not able to judge correctly.</p>	Press [3] [8] in service mode.
Laser Used Time Indicatoion	Check laser used time (hours) of drive.	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">*****</div> <p>l(*****) is the used time display in hour. lLaser used time of DVD/ CD in Playback/Recording mode is counted.</p>	Press [4] [1] in service mode.

Item		FL display	Key operation
Mode name	Description		(Remote controller key)
BD/DVD drive last error	BD/DVD drive error code display.	<p>1. Error Number is displayed for 5 seconds.</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">NO **</div> <p>2. Time when the error has occurred is display for 5 seconds.</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">DDhhmm</div> <p>DD : Day hh : Hour mm : Minute</p> <p>3. Last drive error (1/2) is displayed for 5 seconds.</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">*****</div> <p>00 : Bad disc 03 : Bad disc 04 : Bad disc or drive malfunction</p> <p>4. Last drive error (2/2) is displayed for five seconds.</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">*****</div> <p>5. Error occurring disc type is displayed for 5 seconds.</p> <p>DVD-RW</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">DVDRW</div> <p>CD-R</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">CDR</div> <p>CD-RW</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">CDRW</div> <p>DVD+R</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">DVDPR</div> <p>DVD+RW</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">DVDPRW</div> <p>BD-ROM</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">BDROM</div>	Press [4] [2] in service mode.

Item		FL display	Key operation (Remote controller key)												
Mode name	Description														
		BD-RE <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">BDRE</div> BD-R <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">BDR</div> DVD ROM <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">DVD</div> CD <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">CD</div> RAM (2.6GB) <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">RAM26</div> RAM (4.7GB) <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">RAM47</div> DVD-R <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">DVDR</div> Others <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">MEDIA*</div> <small>* is displayed the respoced value from RTSC.</small>													
		6. Disc maker ID is displayed for 5 seconds. <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">*****</div> 7. Factor of drive error (hexadecimal) occurring is left displayed. <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">* * + + □ □</div> <small>* * : Error occurring operation code (This is not used)</small> <small>+ + : Error occurring disc type</small> <table border="1" style="margin-left: 20px; margin-top: 5px;"> <tr><td>0</td><td>DVD-ROM</td></tr> <tr><td>1</td><td>CD</td></tr> <tr><td>2</td><td>2.6GB DVD-RAM</td></tr> <tr><td>3</td><td>4.7GB DVD-RAM</td></tr> <tr><td>4</td><td>DVD-R</td></tr> <tr><td>After 5</td><td>Others</td></tr> </table>	0	DVD-ROM	1	CD	2	2.6GB DVD-RAM	3	4.7GB DVD-RAM	4	DVD-R	After 5	Others	In case that the maker cannot be identified, display is black out.
0	DVD-ROM														
1	CD														
2	2.6GB DVD-RAM														
3	4.7GB DVD-RAM														
4	DVD-R														
After 5	Others														

Item		FL display	Key operation (Remote controller key)																																																																																								
Mode name	Description																																																																																										
		□□ : Error occurring disc situation <table border="1"> <thead> <tr> <th rowspan="2">Display</th> <th colspan="3">Detail</th> </tr> <tr> <th>Disc distinction</th> <th>With or without Cartridge</th> <th>Disc cart-ridge state</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>00</td><td>OK</td><td>With</td><td>Not opened</td><td>12cm</td></tr> <tr><td>10</td><td>OK</td><td>With</td><td>Not opened</td><td>8cm</td></tr> <tr><td>20</td><td>OK</td><td>With</td><td>Opened</td><td>12cm</td></tr> <tr><td>30</td><td>OK</td><td>With</td><td>Opened</td><td>8cm</td></tr> <tr><td>40</td><td>OK</td><td>Without</td><td>Not opened</td><td>12cm</td></tr> <tr><td>50</td><td>OK</td><td>Without</td><td>Not opened</td><td>8cm</td></tr> <tr><td>60</td><td>OK</td><td>Without</td><td>Opened</td><td>12cm</td></tr> <tr><td>70</td><td>OK</td><td>Without</td><td>Opened</td><td>8cm</td></tr> <tr><td>80</td><td>NG</td><td>With</td><td>Not opened</td><td>12cm</td></tr> <tr><td>90</td><td>NG</td><td>With</td><td>Not opened</td><td>8cm</td></tr> <tr><td>A0</td><td>NG</td><td>With</td><td>Opened</td><td>12cm</td></tr> <tr><td>B0</td><td>NG</td><td>With</td><td>Opened</td><td>8cm</td></tr> <tr><td>C0</td><td>NG</td><td>Without</td><td>Not opened</td><td>12cm</td></tr> <tr><td>D0</td><td>NG</td><td>Without</td><td>Not opened</td><td>8cm</td></tr> <tr><td>E0</td><td>NG</td><td>Without</td><td>Opened</td><td>12cm</td></tr> <tr><td>F0</td><td>NG</td><td>Without</td><td>Opened</td><td>8cm</td></tr> </tbody> </table>	Display	Detail			Disc distinction	With or without Cartridge	Disc cart-ridge state	Size	00	OK	With	Not opened	12cm	10	OK	With	Not opened	8cm	20	OK	With	Opened	12cm	30	OK	With	Opened	8cm	40	OK	Without	Not opened	12cm	50	OK	Without	Not opened	8cm	60	OK	Without	Opened	12cm	70	OK	Without	Opened	8cm	80	NG	With	Not opened	12cm	90	NG	With	Not opened	8cm	A0	NG	With	Opened	12cm	B0	NG	With	Opened	8cm	C0	NG	Without	Not opened	12cm	D0	NG	Without	Not opened	8cm	E0	NG	Without	Opened	12cm	F0	NG	Without	Opened	8cm	
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80	NG	With	Not opened	12cm																																																																																							
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F0	NG	Without	Opened	8cm																																																																																							
CEC (H) output	Check of the CEC terminal high output of HDMI.	When the check is OK <div style="border: 1px solid black; padding: 5px; text-align: center;">CECHOK</div> When the check is NG <div style="border: 1px solid black; padding: 5px; text-align: center;">CECHNG</div>	Press [5] [5] in service mode.																																																																																								
CEC (L) output	Check of the CEC terminal low output of HDMI.	When the check is OK <div style="border: 1px solid black; padding: 5px; text-align: center;">CECHOK</div> When the check is NG <div style="border: 1px solid black; padding: 5px; text-align: center;">CECHNG</div>	Press [5] [6] in service mode.																																																																																								
Tray OPEN/CLOSE Test	The DVD drive tray is opened and closed repeatedly.	<div style="border: 1px solid black; padding: 5px; text-align: center;">*****</div> * is number of open/close cycle times.	Press [9] [1] in service mode *When releasing this mode, press the [POWER] button of Remote Controller more than 10 seconds.																																																																																								
Delete the Laser Used Time	Laser used time stored in the memory of the unit is deleted.	<div style="border: 1px solid black; padding: 5px; text-align: center;">CLR</div>	Press [9] [5] in service mode.																																																																																								
Delete the Last Drive Error	Delete the Last Drive Error information stored on the DVD Drive.	<div style="border: 1px solid black; padding: 5px; text-align: center;">CLR</div>	Press [9] [6] in service mode.																																																																																								
Delete the Error History	Delete Error History information stored on the unit.	<div style="border: 1px solid black; padding: 5px; text-align: center;">CLR</div>	Press [9] [7] in service mode.																																																																																								
Error code initialization	Initialization of the last error code held by timer (Write in F00)	<div style="border: 1px solid black; padding: 5px; text-align: center;">CLR</div>	Press [9] [8] in service mode.																																																																																								
Initialize Service	Last Drive Error, Error history and Error Codes stored on the unit are initialized to factory setting.	<div style="border: 1px solid black; padding: 5px; text-align: center;">CLR</div>	Press [9] [9] in service mode.																																																																																								
Finishing service mode	Release Service Mode.	Display in STOP (SS) mode. <div style="border: 1px solid black; padding: 5px; text-align: center;">*****</div>	Press power button on the front panel or Remote controller in service mode.																																																																																								

## 5 Service Fixture & Tools

Part Number	Description	Pcs	Compatibility
RFKZ0216	Extension Cable (AV Out P.C.B. - Digital P.C.B./ 23 Pin)	2	Same as EH55 Series
	Extension Cable (Power P.C.B. - Digital P.C.B. / 23 Pin)	2	
RFKZ0366	Extension FFC (BD/DVD Drive - Digital P.C.B. / 40 Pin)	1	Same as EH55 Series
RFKZ0169	Extension Cable (Power P.C.B. - BD/DVD Drive / 4 Pin)	1	Same as E50/E100 Series
RFKZ0323	Extension Cable (Power P.C.B. - Digital P.C.B. / 9 Pin)	1	Same as BD10
RFKZ0324	Extension Cable (Power P.C.B. - Front (R) P.C.B. / 18 Pin)	1	New
JZS0484	Eject Pin	1	Same as ES15/ E50 Series
RFKZ03D01K	Lead Free Solder (0.3mm/100g Reel)	-	Same as EH55 Series
RFKZ06D01K	Lead Free Solder (0.6mm/100g Reel)	-	Same as EH55 Series
RFKZ10D01K	Lead Free Solder (1.0mm/100g Reel)	-	Same as EH55 Series
RFKZ0316	Solder Remover (Lead free 10W temperature Solder/180g)	-	Same as EH55 Series
RFKZ0328	Flux	-	Same as EH55 Series
RFKZ0329	Bottle of Flux	-	Same as EH55 Series

# 6 Measurements and Adjustments

## 6.1. Service Positions

**Note:**

For description of the disassembling procedure, see the section 9 (vol.1).

### 6.1.1. Checking and Repairing of Digital P.C.B.

#### 1. Top Cover

Remove 3 Screws on rear.

Remove 2 Screws on side.

Remove Top Cover.

#### 2. Digital P.C.B.

Remove the 9 Screws that is fixing the Rear Panel.

Disconnect the Fan Connector, and remove the Rear Panel.

Disconnect the 2 Connectors (23 pin) and the Connector (9 pin) between Digital and Power P.C.B.

Disconnect the 2 Connectors (23 pin) between Digital and AV Out P.C.B.

Disconnect the FFC between Digital P.C.B. and the BD/DVD Drive.

Remove the 4 Screws, and remove the Digital P.C.B.

#### 3. Fan Motor

Remove the 2 Screws that is fixing the Fan Motor on the Rear Panel.

Remove the Fan Motor.

#### Connect Extension FFC and Cables shown below.

Between Digital P.C.B. and Power P.C.B.: (RFKZ0216) 23pin x 2

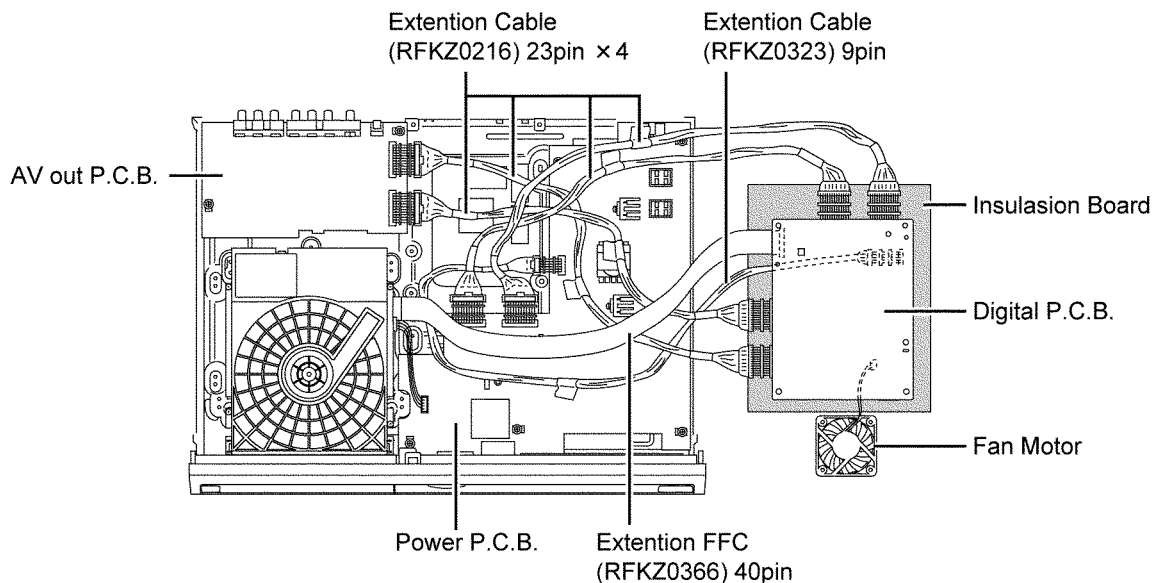
Between Digital P.C.B. and AV Out P.C.B.: (RFKZ0216) 23pin x 2

Between Digital P.C.B. and Power P.C.B.: (RFKZ0323) 9pin

Between Digital P.C.B. and BD/DVD Drive: (RFKZ0366) 40pin

#### Caution:

Red wire should be connected to pin1.



# Service Manual

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## Diagrams and Replacement Parts List

### Blu-ray Disc Player

Model No.

DMP-BD30PP

DMP-BD30PL

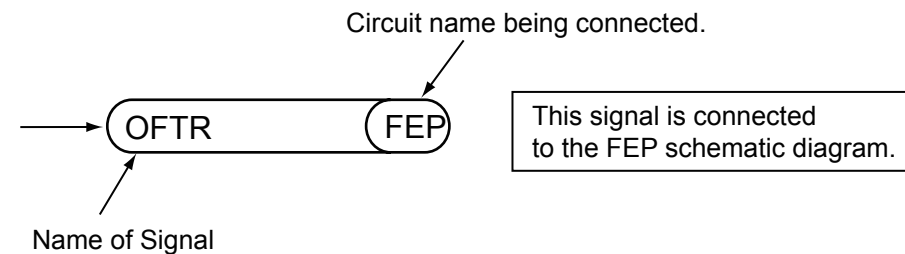
Vol. 2  
 Colour  
 (K).....Black Type

## S1. About Indication of The Schematic Diagram

### S1.1. Important Safety Notice

COMPONENTS IDENTIFIED WITH THE MARK  $\triangle$  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY THE SAME TYPE.

1. Although reference number of the parts is indicated on the P.C.B. drawing and/or schematic diagrams, it is NOT mounted on the P.C.B. when it is displayed with "\$" mark.
2. It is only the "Test Round" and no terminal (Pin) is available on the P.C.B. when the TP (Test Point) indicated as "●" mark.
3. The voltage being indicated on the schematic diagram is measured in "Standard-Playback" mode when there is no specify mode is mentioned.
4. Although the voltage and waveform available on here is measured with standard frame, it may be differ from actual measurement due to modification of circuit and so on.
5. The voltage being indicated here may be include observational-error (deviation) due to internal-resistance and/or reactance of equipment. Therefore, handle the value indicated on here as reference.
6. Use the parts number indicated on the Replacement Parts List .
7. Indication on Schematic diagrams:



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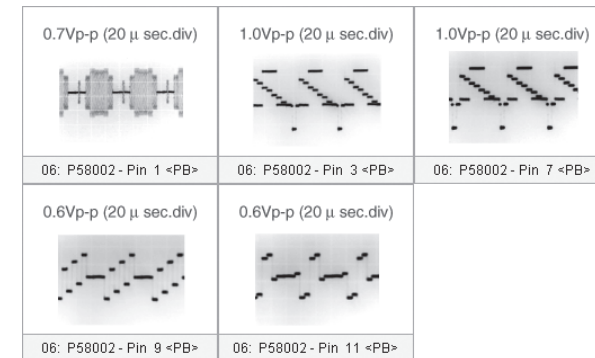
## S2. Voltage and Waveform Chart

Note) Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard.  
Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

### S2.1. Digital P.C.B.

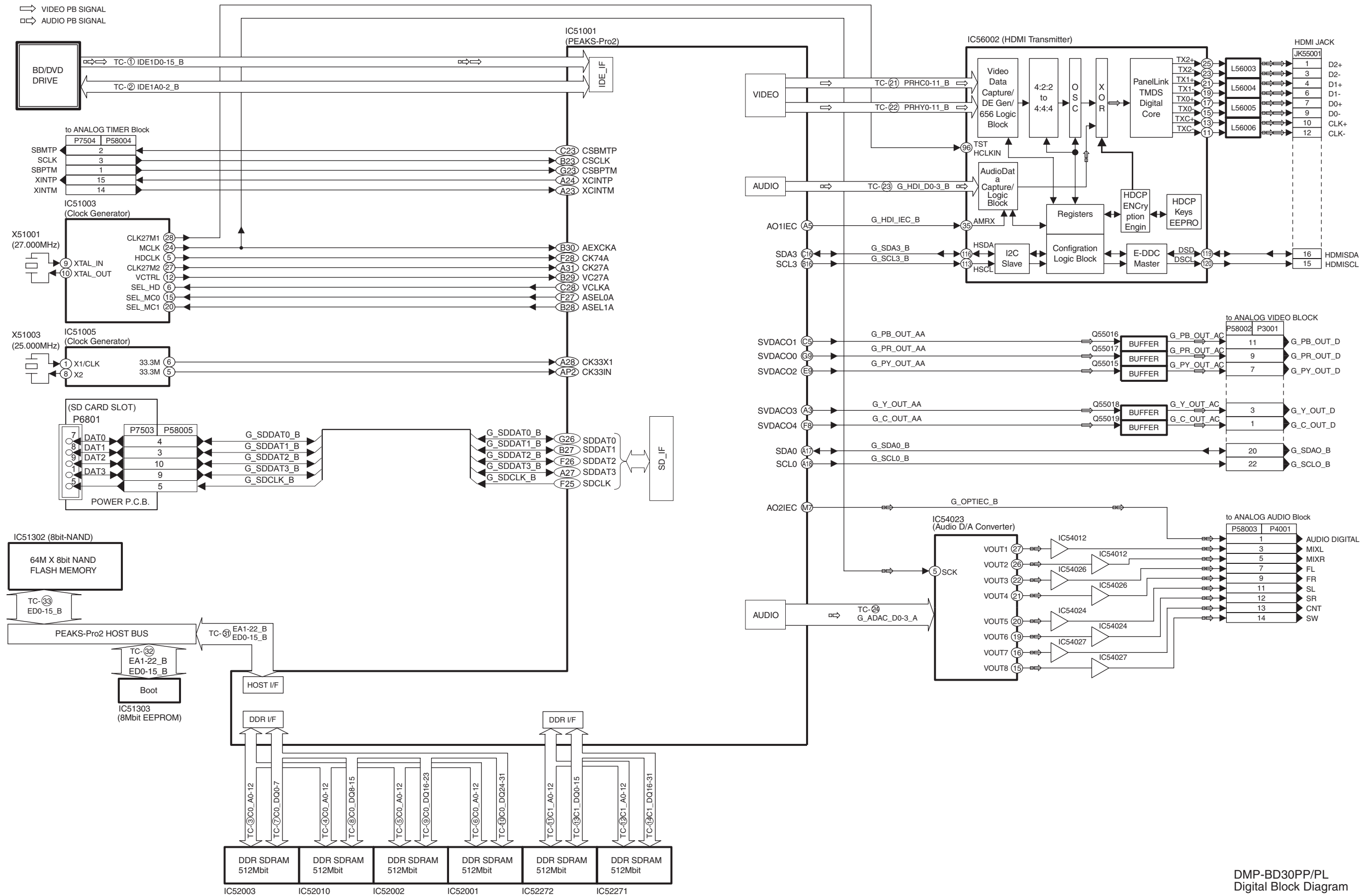
REF No.	PIN No.	PB	STOP	REF No.	PIN No.	PB	STOP
P58002	1	1.4	1.4	P58004	16	3.3	3.3
P58002	2	0	0	P58004	17	0	0
P58002	3	1.2	1.2	P58004	18	6.3	6.3
P58002	4	0	0	P58004	19	0	0
P58002	5	0	0	P58004	20	0	0
P58002	6	0	0	P58004	21	0	0
P58002	7	1.4	1.4	P58004	22	0	0
P58002	8	3.2	3.2	P58004	23	0	0
P58002	9	1.3	1.3	P58005	1	3.3	3.3
P58002	10	3.2	3.2	P58005	2	3.3	3.3
P58002	11	1.5	1.5	P58005	3	3.3	3.3
P58002	12	0	0	P58005	4	3.3	3.3
P58002	13	0	0	P58005	5	0	0
P58002	14	0	0	P58005	6	3.3	3.3
P58002	15	3.3	3.3	P58005	7	0	0
P58002	16	0	0	P58005	8	3.3	3.3
P58002	17	0	0	P58005	9	3.3	3.3
P58002	18	3.3	3.3	P58005	10	3.3	3.3
P58002	19	5.9	5.9	P58005	11	3.3	3.3
P58002	20	3.3	3.3	P58005	12	0	0
P58002	21	0	0	P58005	13	0	0
P58002	22	3.3	3.3	P58005	14	0	0
P58002	23	3.1	3.1	P58005	15	-	-
P58003	1	1.6	1.6	P58005	16	0.1	0.1
P58003	2	5	5	P58005	17	0	0
P58003	3	2.6	2.6	P58005	18	3.3	3.3
P58003	4	0	0	P58005	19	0	0
P58003	5	2.6	2.6	P58005	20	3.3	3.3
P58003	6	0	0	P58005	21	0	0
P58003	7	2.6	2.6	P58005	22	0	0
P58003	8	0	0	P58005	23	0	0
P58003	9	2.6	2.6	P58007	1	0	0
P58003	10	0	0	P58007	2	0	0
P58003	11	2.6	2.6	P58007	3	0	0
P58003	12	0	0	P58007	4	0	0
P58003	13	0	0	P58007	5	5.9	5.9
P58003	14	0	0	P58007	6	5.9	5.9
P58003	15	2.5	2.5	P58007	7	12.2	12.2
P58003	16	0	0	P58007	8	12.2	12.2
P58003	17	0	3.3	P58007	9	-11.8	-11.8
P58003	18	4.2	4.2				
P58003	19	3.3	3.3				
P58003	20	11.6	11.6				
P58003	21	12.2	12.2				
P58003	22	-11.2	-11.2				
P58003	23	-11.8	-11.8				
P58004	1	3.3	3.3				
P58004	2	3.1	3.1				
P58004	3	3.3	3.3				
P58004	4	0	0				
P58004	5	0	0				
P58004	6	3.2	3.2				
P58004	7	3.1	3.1				
P58004	8	3.3	3.3				
P58004	9	3.3	3.3				
P58004	10	0	0				
P58004	11	3.3	3.3				
P58004	12	3.4	3.4				
P58004	13	3.1	3.1				
P58004	14	3.3	3.3				
P58004	15	3.3	3.3				

#### <P58002>





### S3.2. Digital Block Diagram



DMP-BD30PP/PL  
Digital Block Diagram

### S3.3. IC Pin Terminal Chart

#### S3.3.1. IC Pin Terminal Chart (1)

IC Pin Terminal Chart ( TC 1 - TC 14, TC21 - TC24)

TC	IC51001 / PEAKS-Pro2		SIGNAL NAME	P51603 (TO BD DRIVE)	
	Port Name	Pin No		Pin No	Port Name
1	IDED0	J30	IDE1D0_B	17	DD0
	IDED1	J29	IDE1D1_B	15	DD1
	IDED2	E34	IDE1D2_B	13	DD2
	IDED3	J28	IDE1D3_B	11	DD3
	IDED4	D33	IDE1D4_B	9	DD4
	IDED5	E34	IDE1D5_B	7	DD5
	IDED6	E32	IDE1D6_B	5	DD6
	IDED7	D33	IDE1D7_B	3	DD7
	IDED8	G30	IDE1D8_B	4	DD8
	IDED9	F32	IDE1D9_B	6	DD9
	IDED10	H29	IDE1D10_B	8	DD10
	IDED11	H30	IDE1D11_B	10	DD11
	IDED12	G32	IDE1D12_B	12	DD12
	IDED13	F33	IDE1D13_B	14	DD13
	IDED14	F34	IDE1D14_B	16	DD14
IDED15	H32	IDE1D15_B	18	DD15	

TC	IC51001 / PEAKS-Pro2		SIGNAL NAME	P51603 (TO BD DRIVE)	
	Port Name	Pin No		Pin No	Port Name
2	IDEA0	L28	IDE1A0_B	35	DA0
	IDEA1	H33	IDE1A1_B	33	DA1
	IDEA2	H34	IDE1A2_B	36	DA2

TC	IC51001 / PEAKS-Pro2		SIGNAL NAME	IC52003 / SD RAM	
	Port Name	Pin No		Pin No	Port Name
3	COA0	AL15	COA0	15	A0(8H)
	COA1	AP13	COA1	14	A1(3H)
	COA2	AK14	COA2	13	A2(7H)
	COA3	AN14	COA3	12	A3(2J)
	COA4	AH17	COA4	11	A4(8J)
	COA5	AJ14	COA5	10	A5(3J)
	COA6	AP10	COA6	9	A6(7J)
	COA7	AP16	COA7	8	A7(2K)
	COA8	AN11	COA8	7	A8(8K)
	COA9	AJ12	COA9	6	A9(3K)
	COA10	AM14	COA10	5	A10(2H)
	COA11	AJ17	COA11	4	A11(7K)
COA12	AN16	COA12	3	A12(2L)	

TC	IC51001 / PEAKS-Pro2		SIGNAL NAME	IC52010 / SD RAM	
	Port Name	Pin No		Pin No	Port Name
4	COA0	AL15	COA0	15	A0(8H)
	COA1	AP13	COA1	14	A1(3H)
	COA2	AK14	COA2	13	A2(7H)
	COA3	AN14	COA3	12	A3(2J)
	COA4	AH17	COA4	11	A4(8J)
	COA5	AJ14	COA5	10	A5(3J)
	COA6	AP10	COA6	9	A6(7J)
	COA7	AP16	COA7	8	A7(2K)
	COA8	AN11	COA8	7	A8(8K)
	COA9	AJ12	COA9	6	A9(3K)
	COA10	AM14	COA10	5	A10(2H)
	COA11	AJ17	COA11	4	A11(7K)
COA12	AN16	COA12	3	A12(2L)	

TC	IC51001 / PEAKS-Pro2		SIGNAL NAME	IC52002 / SD RAM	
	Port Name	Pin No		Pin No	Port Name
5	COA0	AL15	COA0	15	A0(8H)
	COA1	AP13	COA1	14	A1(3H)
	COA2	AK14	COA2	13	A2(7H)
	COA3	AN14	COA3	12	A3(2J)
	COA4	AH17	COA4	11	A4(8J)
	COA5	AJ14	COA5	10	A5(3J)
	COA6	AP10	COA6	9	A6(7J)
	COA7	AP16	COA7	8	A7(2K)
	COA8	AN11	COA8	7	A8(8K)
	COA9	AJ12	COA9	6	A9(3K)
	COA10	AM14	COA10	5	A10(2H)
	COA11	AJ17	COA11	4	A11(7K)
COA12	AN16	COA12	3	A12(2L)	

TC	IC51001 / PEAKS-Pro2		SIGNAL NAME	IC52001 / SD RAM	
	Port Name	Pin No		Pin No	Port Name
6	COA0	AL15	COA0	15	A0(8H)
	COA1	AP13	COA1	14	A1(3H)
	COA2	AK14	COA2	13	A2(7H)
	COA3	AN14	COA3	12	A3(2J)
	COA4	AH17	COA4	11	A4(8J)
	COA5	AJ14	COA5	10	A5(3J)
	COA6	AP10	COA6	9	A6(7J)
	COA7	AP16	COA7	8	A7(2K)
	COA8	AN11	COA8	7	A8(8K)
	COA9	AJ12	COA9	6	A9(3K)
	COA10	AM14	COA10	5	A10(2H)
	COA11	AJ17	COA11	4	A11(7K)
COA12	AN16	COA12	3	A12(2L)	

TC	IC51001 / PEAKS-Pro2		SIGNAL NAME	IC52003 / SD RAM	
	Port Name	Pin No		Pin No	Port Name
7	C0DQ0	AK19	C0DQ0	22	DQ4(1D)
	C0DQ1	AJ20	C0DQ1	20	DQ6(1B)
	C0DQ2	AN20	C0DQ2	26	DQ0(8C)
	C0DQ3	AL21	C0DQ3	23	DQ3(3D)
	C0DQ4	AJ21	C0DQ4	21	DQ5(9D)
	C0DQ5	AH21	C0DQ5	19	DQ7(9B)
	C0DQ6	AM21	C0DQ6	25	DQ1(2C)
C0DQ7	AP21	C0DQ7	24	DQ2(7D)	

TC	IC51001 / PEAKS-Pro2		SIGNAL NAME	IC52010 / SD RAM	
	Port Name	Pin No		Pin No	Port Name
8	C0DQ8	AL18	C0DQ8	26	DQ0(8C)
	C0DQ9	AJ18	C0DQ9	24	DQ2(7D)
	C0DQ10	AP18	C0DQ10	20	DQ6(1B)
	C0DQ11	AM18	C0DQ11	25	DQ1(2C)
	C0DQ12	AH18	C0DQ12	21	DQ5(9D)
	C0DQ13	AK17	C0DQ13	19	DQ7(9B)
	C0DQ14	AN17	C0DQ14	23	DQ3(3D)
	C0DQ15	AM17	C0DQ15	22	DQ4(1D)

TC	IC51001 / PEAKS-Pro2		SIGNAL NAME	IC52002 / SD RAM	
	Port Name	Pin No		Pin No	Port Name
9	C0DQ16	AL10	C0DQ16	25	DQ1(2C)
	C0DQ17	AM10	C0DQ17	24	DQ2(7D)
	C0DQ18	AJ11	C0DQ18	23	DQ3(3D)
	C0DQ19	AM9	C0DQ19	19	DQ7(9B)
	C0DQ20	AK11	C0DQ20	20	DQ6(1B)
	C0DQ21	AH12	C0DQ21	22	DQ4(1D)
	C0DQ22	AN8	C0DQ22	26	DQ0(8C)
C0DQ23	AN9	C0DQ23	21	DQ5(9D)	

TC	IC51001 / PEAKS-Pro2		SIGNAL NAME	IC52001 / SD RAM	
	Port Name	Pin No		Pin No	Port Name
10	C0DQ24	AJ9	C0DQ24	21	DQ5(9D)
	C0DQ25	AL8	C0DQ25	19	DQ7(9B)
	C0DQ26	AN5	C0DQ26	20	DQ6(1B)
	C0DQ27	AL7	C0DQ27	26	DQ0(8C)
	C0DQ28	AK8	C0DQ28	25	DQ1(2C)
	C0DQ29	AN6	C0DQ29	24	DQ2(7D)
	C0DQ30	AM6	C0DQ30	23	DQ3(3D)
C0DQ31	AP4	C0DQ31	22	DQ4(1D)	

TC	IC51001 / PEAKS-Pro2		SIGNAL NAME	IC52272 / SD RAM	
	Port Name	Pin No		Pin No	Port Name
11	C1A0	AA3	C1A0	15	A0(8M)
	C1A1	AC1	C1A1	14	A1(3M)
	C1A2	AA6	C1A2	13	A2(7M)
	C1A3	AC3	C1A3	12	A3(2N)
	C1A4	AC6	C1A4	11	A4(8N)
	C1A5	Y4	C1A5	10	A5(3N)
	C1A6	W2	C1A6	9	A6(7N)
	C1A7	AE1	C1A7	8	A7(2P)
	C1A8	Y1	C1A8	7	A8(8P)
	C1A9	V7	C1A9	6	A9(3P)
	C1A10	Y5	C1A10	5	A10(2M)
	C1A11	AC7	C1A11	4	A11(7P)
C1A12	AD3	C1A12	3	A12(2R)	

TC	IC51001 / PEAKS-Pro2		SIGNAL NAME	IC52271 / SD RAM	
	Port Name	Pin No		Pin No	Port Name
12	C1A0	AA3	C1A0	15	A0(8M)
	C1A1	AC1	C1A1	14	A1(3M)
	C1A2	AA6	C1A2	13	A2(7M)
	C1A3	AC3	C1A3	12	A3(2N)
	C1A4	AC6	C1A4	11	A4(8N)
	C1A5	Y4	C1A5	10	A5(3N)
	C1A6	W2	C1A6	9	A6(7N)
	C1A7	AE1	C1A7	8	A7(2P)
	C1A8	Y1	C1A8	7	A8(8P)
	C1A9	V7	C1A9	6	A9(3P)
	C1A10	Y5	C1A10	5	A10(2M)
	C1A11	AC7	C1A11	4	A11(7P)
C1A12	AD3	C1A12	3	A12(2R)	

TC	IC51001 / PEAKS-Pro2		SIGNAL NAME	IC52272 / SD RAM	
	Port Name	Pin No		Pin No	Port Name
13	C1DQ0	AG4	C1DQ0	33	DQ4(1H)
	C1DQ1	AG5	C1DQ1	36	DQ1(2G)
	C1DQ2	AK2	C1DQ2	30	DQ7(9F)
	C1DQ3	AJ3	C1DQ3	35	DQ2(7H)
	C1DQ4	AH3	C1DQ4	34	DQ3(3H)
	C1DQ5	AH4	C1DQ5	31	DQ6(1F)
	C1DQ6	AL1	C1DQ6	37	DQ0(8G)
	C1DQ7	AL2	C1DQ7	32	DQ5(9H)
	C1DQ8	AF6	C1DQ8	22	DQ15(9B)
	C1DQ9	AF5	C1DQ9	24	DQ13(9D)
	C1DQ10	AF3	C1DQ10	27	DQ10(7D)
	C1DQ11	AE4	C1DQ11	29	DQ8(8C)
	C1DQ12	AD6	C1DQ12	26	DQ11(3D)
	C1DQ13	AD5	C1DQ13	28	DQ9(2C)
	C1DQ14	AF1	C1DQ14	23	DQ14(1B)
C1DQ15	AE2	C1DQ15	25	DQ12(1D)	

TC	IC51001 / PEAKS-Pro2		SIGNAL NAME	IC52271 / SD RAM	
	Port Name	Pin No		Pin No	Port Name
14	C1DQ16	T5	C1DQ16	33	DQ4(1H)
	C1DQ17	U4	C1DQ17	31	DQ6(1F)
	C1DQ18	U3	C1DQ18	30	DQ7(9F)
	C1DQ19	U1	C1DQ19	37	DQ0(8G)
	C1DQ20	U7	C1DQ20	34	DQ3(3H)
	C1DQ21	V6	C1DQ21	36	DQ1(2G)
	C1DQ22	V1	C1DQ22	35	DQ2(7H)
	C1DQ23	V3	C1DQ23	32	DQ5(9H)
	C1DQ24	R6	C1DQ24	28	DQ9(2C)
	C1DQ25	R7	C1DQ25	27	DQ10(7D)
	C1DQ26	R1	C1DQ26	24	DQ13(9D)
	C1DQ27	P4	C1DQ27	25	DQ12(1D)
	C1DQ28	P5	C1DQ28	26	DQ11(3D)
	C1DQ29	P7	C1DQ29	23	DQ14(1B)
	C1DQ30	P2	C1DQ30	29	DQ8(8C)
C1DQ31	P1	C1DQ31	22	DQ15(9B)	

TC	IC51001 / PEAKS-Pro2		SIGNAL NAME	IC56002 / HDMI TRANSMITTER	
	Port Name	Pin No		Pin No	Port Name
21	VO1C0	E12	PRHC0_B	91	D8
	VO1C1	B8	PRHC1_B	90	D9
	VO1C2	G13	PRHC2_B	88	D10
	VO1C3	A8	PRHC3_B	87	D11
	VO1C4	A9	PRHC4_B	59	D28
	VO1C5	E13	PRHC5_B	57	D29
	VO1C6	B10	PRHC6_B	56	D30
	VO1C7	G14	PRHC7_B	55	D31
	VO1C8	C11	PRHC8_B	54	D32
	VO1C9	F14	PRHC9_B	53	D33
	VO1C10	B11	PRHC10_B	51	D34
VO1C11	A11	PRHC11_B	50	D35	

TC	IC51001 / PEAKS-Pro2		SIGNAL NAME	IC56002 / HDMI TRANSMITTER	
	Port Name	Pin No		Pin No	Port Name
22	VO1Y0	F13	PRHY0_B	103	D4
	VO1Y1	C10	PRHY1_B	102	D5
	VO1Y2	A10	PRHY2_B	94	D6
	VO1Y3	B9	PRHY3_B	92	D7
	VO1Y4	C12	PRHY4_B	78	D16
	VO1Y5	B12	PRHY5_B	77	D17
	VO1Y6	E14	PRHY6_B	76	D18
	VO1Y7	A12	PRHY7_B	75	D19
	VO1Y8	G15	PRHY8_B	73	D20
	VO1Y9	B13	PRHY9_B	72	D21
	VO1Y10	F15	PRHY10_B	71	D22
VO1Y11	A13	PRHY11_B	70	D23	

TC	IC51001 / PEAKS-Pro2		SIGNAL NAME	IC56002 / HDMI TRANSMITTER	
	Port Name	Pin No		Pin No	Port Name
23	AO1D0	E11	G_HDI_D0_B	46	AMSDI0
	AO1D1	F11	G_HDI_D1_B	45	AMSDI1
	AO1D2	D10	G_HDI_D2_B	44	AMSDI2
	AO1D3	A6	G_HDI_D3_B	42	AMSDI3

TC	IC51001 / PEAKS-Pro2		SIGNAL NAME	IC54023 / AUDIO A/D CONVERTER	
	Port Name	Pin No		Pin No	Port Name
24	AO2D0	L6	G_ADAC_D0_B	6	DATA1
	AO2D1	K1	G_ADAC_D1_B	11	DATA2
	AO2D2	L5	G_ADAC_D2_B	12	DATA3
	AO2D3	L2	G_ADAC_D3_B	13	DATA4

### S3.3.2. IC Pin Terminal Chart (2)

ED0\_B - ED15\_B EXTERNAL HOST BUS LINE ( TC31, TC32, TC33)

TC	31		32		33	
	IC51001 / PEAKS-Pro2		IC51303 / EEPROM		IC51302 / 8BIT-NAND	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
ED0_B	AK26	ED0	29	DQ0	29	IO0
ED1_B	AJ26	ED1	31	DQ1	30	IO1
ED2_B	AN27	ED2	33	DQ2	31	IO2
ED3_B	AH26	ED3	35	DQ3	32	IO3
ED4_B	AM26	ED4	38	DQ4	41	IO4
ED5_B	AL27	ED5	40	DQ5	42	IO5
ED6_B	AP28	ED6	42	DQ6	43	IO6
ED7_B	AK27	ED7	44	DQ7	44	IO7
ED8_B	AN28	ED8	30	DQ8	-	-
ED9_B	AJ27	ED9	32	DQ9	-	-
ED10_B	AP29	ED10	34	DQ10	-	-
ED11_B	AL28	ED11	36	DQ11	-	-
ED12_B	AM27	ED12	39	DQ12	-	-
ED13_B	AK28	ED13	41	DQ13	-	-
ED14_B	AN29	ED14	43	DQ14	-	-
ED15_B	AM28	ED15	45	DQ15	-	-

EA1\_B - EA22\_B EXTERNAL HOST BUS LINE ( TC31, TC32)

TC	31		32	
	IC51001 / PEAKS-Pro2		IC51303 / EEPROM	
	Pin No	Port Name	Pin No	Port Name
EA1_B	AM29	EA1	25	A0
EA2_B	AN30	EA2	24	A1
EA3_B	AK31	EA3	23	A2
EA4_B	AP31	EA4	22	A3
EA5_B	AN31	EA5	21	A4
EA6_B	AM30	EA6	20	A5
EA7_B	AL29	EA7	19	A6
EA8_B	AP32	EA8	18	A7
EA9_B	AJ30	EA9	8	A8
EA10_B	AM33	EA10	7	A9
EA11_B	AH29	EA11	6	A10
EA12_B	AL32	EA12	5	A11
EA13_B	AJ31	EA13	4	A12
EA14_B	AG28	EA14	3	A13
EA15_B	AM34	EA15	2	A14
EA16_B	AH30	EA16	1	A15
EA17_B	AL33	EA17	48	A16
EA18_B	AG29	EA18	17	A17
EA19_B	AK32	EA19	16	A18
EA20_B	AH31	EA20	9	A19
EA21_B	AJ32	EA21	10	A20
EA22_B	AG30	EA22	13	A21

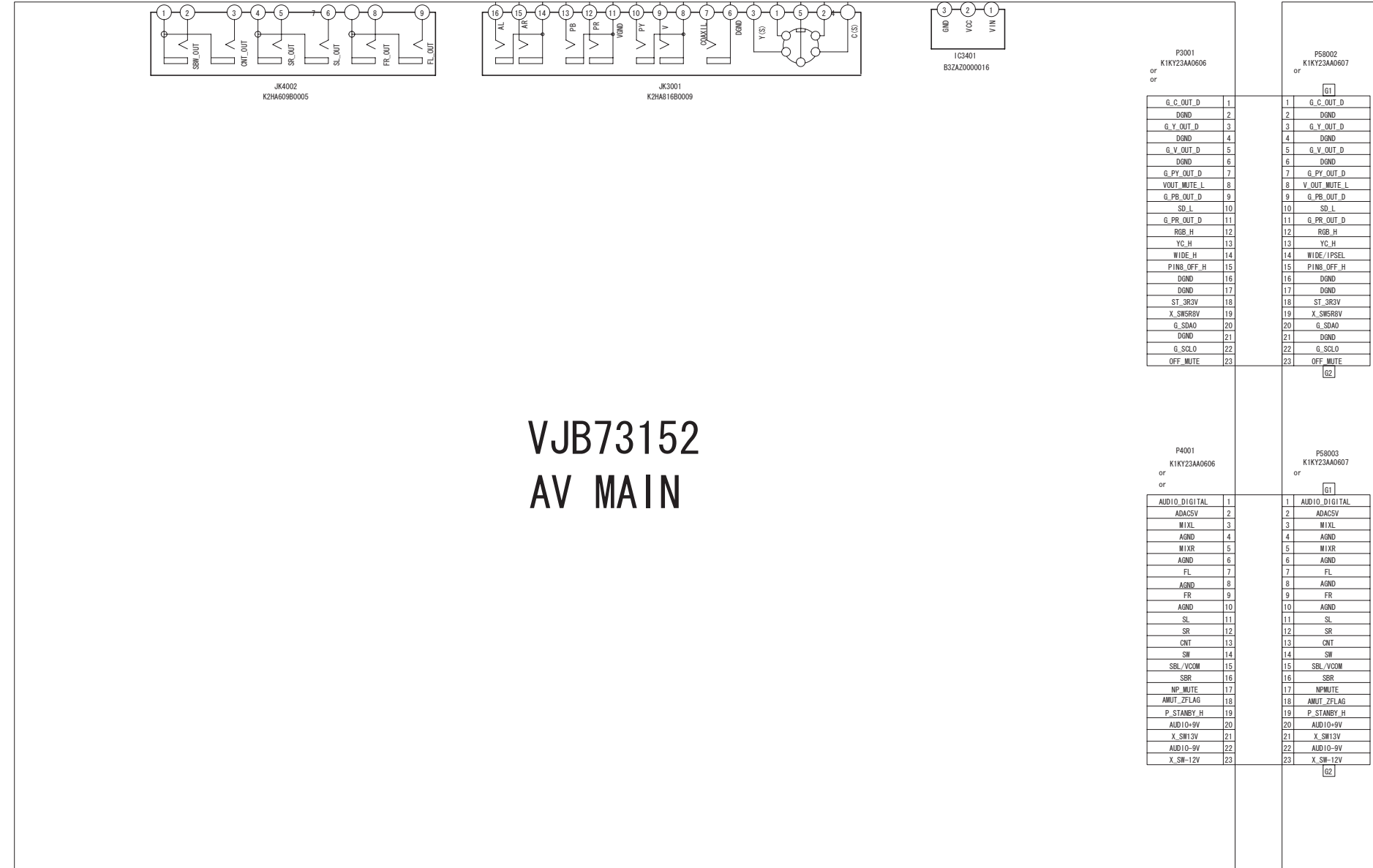


# S4. Schematic Diagram

## S4.1. Interconnection Diagram

1/4  
DMP-BD30PP/PL  
Interconnection Diagram

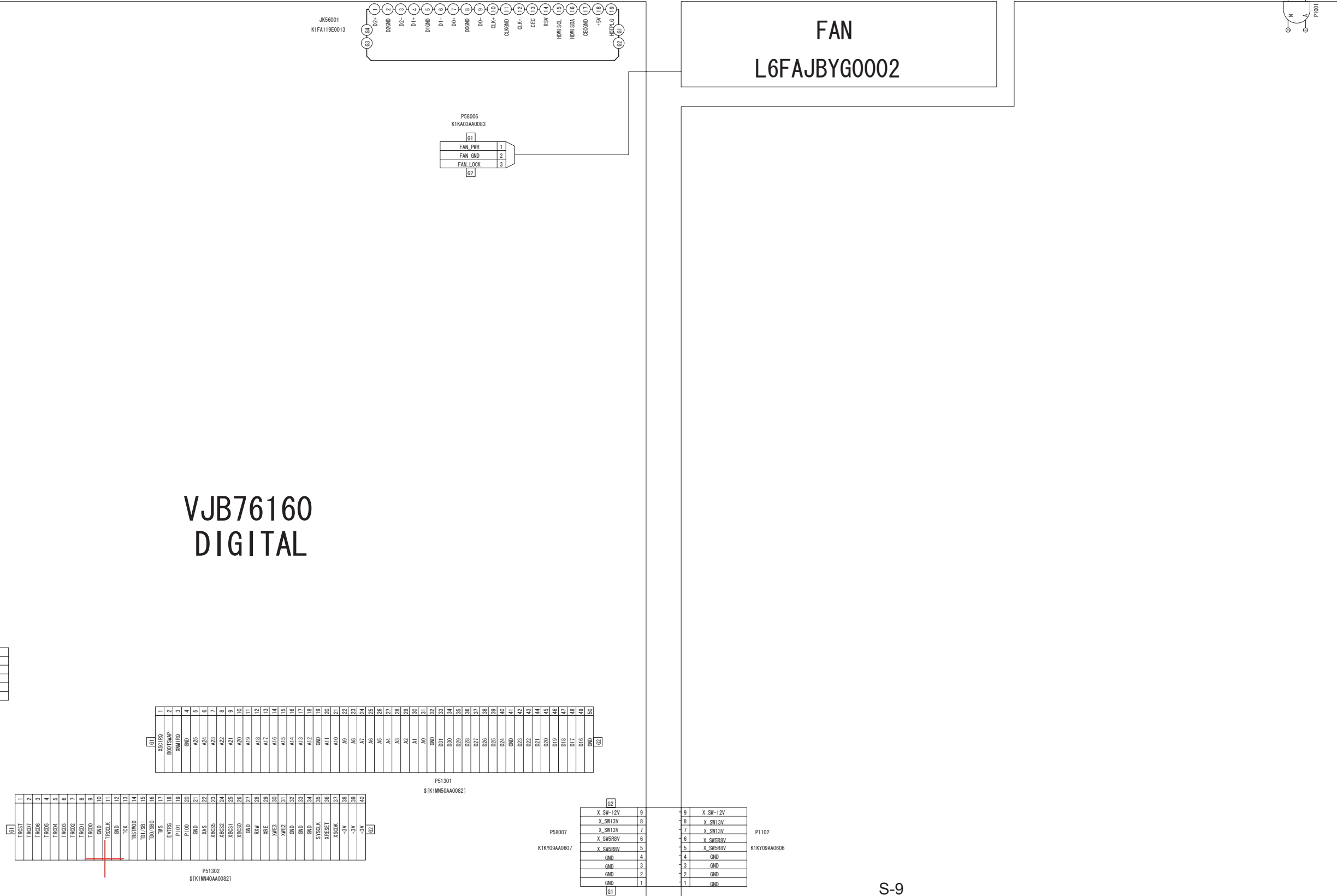
N  
M  
L  
K  
J  
I  
H  
G



VJB73152  
AV MAIN

VJB7  
DIG







# VJB76162 BD3PPV1

## DRIVE

VJB76165  
FRONT L

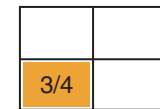
P7001 K1KA03A0301	
1	KEY_POWER
2	LED_STANDBY
3	GND

VEE1E02 (PP) / VEE1E12 (EG)

P7202 K1KA03A0301	
1	KEY_POWER
2	LED_STANDBY
3	GND

VJB76166  
FRONT R

1	F-
2	MK
3	75



DMP-BD30PP/PL  
Interconnection Diagram

DR_5V	4
DR_GND	3
DR_GND	2
DR_12V	1

K1KA04A0301  
P201

VWJ2010

4	DR_5V
3	DR_GND
2	DR_GND
1	DR_12V

K1KA04A0301  
P1601

P7501  
K1KB18800017

1	GND
2	KEY_POWER
3	GND
4	X_SWBREV
5	IR
6	X_SWREV
7	KEY_OPEN_CLOSE
8	KEY_IN2
9	KEY_SKIP_FWD
10	KEY_PLAY
11	LED_STANDBY
12	FL_VP
13	FL_CS
14	FL_3REV
15	FL_CLK
16	FL_LD
17	FL_F-
18	FL_F+

P7201  
K1KA18800034

P7502 K1KA06A0188	
1	SW_UART
2	XRESET
3	MAX_RD
4	GND
5	3REV
6	MAX_TD

P7503  
K1KY23A0606

1	WP
2	CD
3	DAT1
4	DAT0
5	CLK
6	SW13REV
7	DND
8	GND
9	DAT3
10	DAT2
11	XPRE
12	PKS_STATE
13	FL_CLK
14	FL_3REV
15	SD_BOOT
16	SD_BOOT
17	DND
18	XPREST
19	DND
20	X_SWREV
21	RBB_H
22	YC_H
23	WIDE_H

P51005  
K1KY23A0607

DA1	33
[RESERVED]	32
INTRQ	31
GND	30
DMACK-	29
CSEL	28
IORDY	27
GND	26
D1OR-	25
GND	24
D1OW-	23
GND	22
DMARQ	21
[KEY PIN]	20
GND	19
DD15	18
DD0	17
DD14	16
DD1	15
DD03	14
DD12	13
DD02	12
DD13	11
DD01	10
DD11	9
DD4	8
DD10	7
DD9	6
DD6	5
DD8	4
DD7	3
GND	2
RESET-	1

VEE1E13

DD1	10
DD03	9
DD12	8
DD02	7
DD13	6
DD01	5
DD11	4
DD4	3
DD10	2
DD9	1
DD6	0
DD8	-1
DD7	-2
GND	-3
RESET-	-4

TRDST	1
TRD07	2
TRD06	3
TRD04	4
TRD05	5
TRD02	6
TRD03	7
TRD08	8
TRD09	9
TRD0A	10
TRD0B	11
TRD0C	12
TRD0D	13
TRD0E	14
TRD0F	15
TRD10	16
TRD11	17
ENTIRE	18
P100	19
GND	20
MAS	21
MAS	22
MES55	23
MES52	24
MES51	25
MES50	26

P51302  
K1KW40A0082



1	TRST
2	TRSD7
3	TRSD6
4	TRSD5
5	TRSD4
6	TRSD3
7	TRSD2
8	TRSD1
9	TRSD0
10	TRCOLK
11	TRCOLK
12	TRCOLK
13	TRCOLK
14	TRCOLK
15	TRCOLK
16	TRCOLK
17	TRCOLK
18	TRCOLK
19	TRCOLK
20	TRCOLK
21	TRCOLK
22	TRCOLK
23	TRCOLK
24	TRCOLK
25	TRCOLK
26	TRCOLK
27	TRCOLK
28	TRCOLK
29	TRCOLK
30	TRCOLK
31	TRCOLK
32	TRCOLK
33	TRCOLK
34	TRCOLK
35	TRCOLK
36	TRCOLK
37	TRCOLK
38	TRCOLK
39	TRCOLK
40	TRCOLK

P51302  
\$[K1M40A0002]

\$[K1M50A0002]

9	X_SW-12V
8	X_SW13V
7	X_SW13V
6	X_SW88V
5	X_SW88V
4	GND
3	GND
2	GND
1	GND

P1102  
K1KY09AA0606

5	CLK
6	SMTRSV
7	DAND
8	DAND
9	DAND
10	DAND
11	DAND
12	DAND
13	DAND
14	DAND
15	DAND
16	DAND
17	DAND
18	DAND
19	DAND
20	DAND
21	DAND
22	DAND
23	DAND

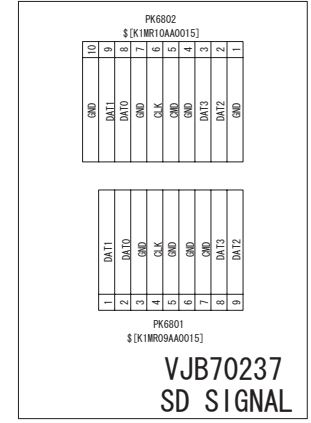
1	SPM
2	SMTP
3	SCLK
4	DAND
5	MP MUTE
6	P_STANBY_H
7	OFF MUTE
8	V_OUT MUTE_L
9	SD_L
10	HDMI CONT
11	PIRE_OFF_H
12	HDMI CONT
13	PIRE_OFF_H
14	HDMI CONT
15	PIRE_OFF_H
16	PW_GOOD_H
17	P_STANBY_DL_H
18	FAN_PWM
19	FAN_GND
20	ASND
21	ASND
22	DAND
23	DAND

P58004  
K1KY23AA0607

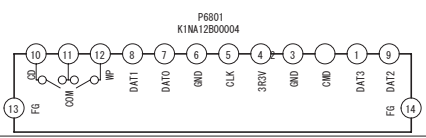
P7504  
K1KY23AA0606

P7502  
\$[K1KA06A0188]

1	SW_UART
2	XRESET
3	MAX_RD
4	GND
5	3R3V
6	MAX_TD



VJB70237  
SD SIGNAL

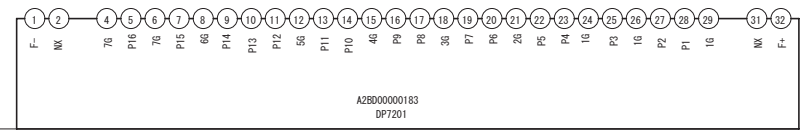


# VJB71126/71131 POWER

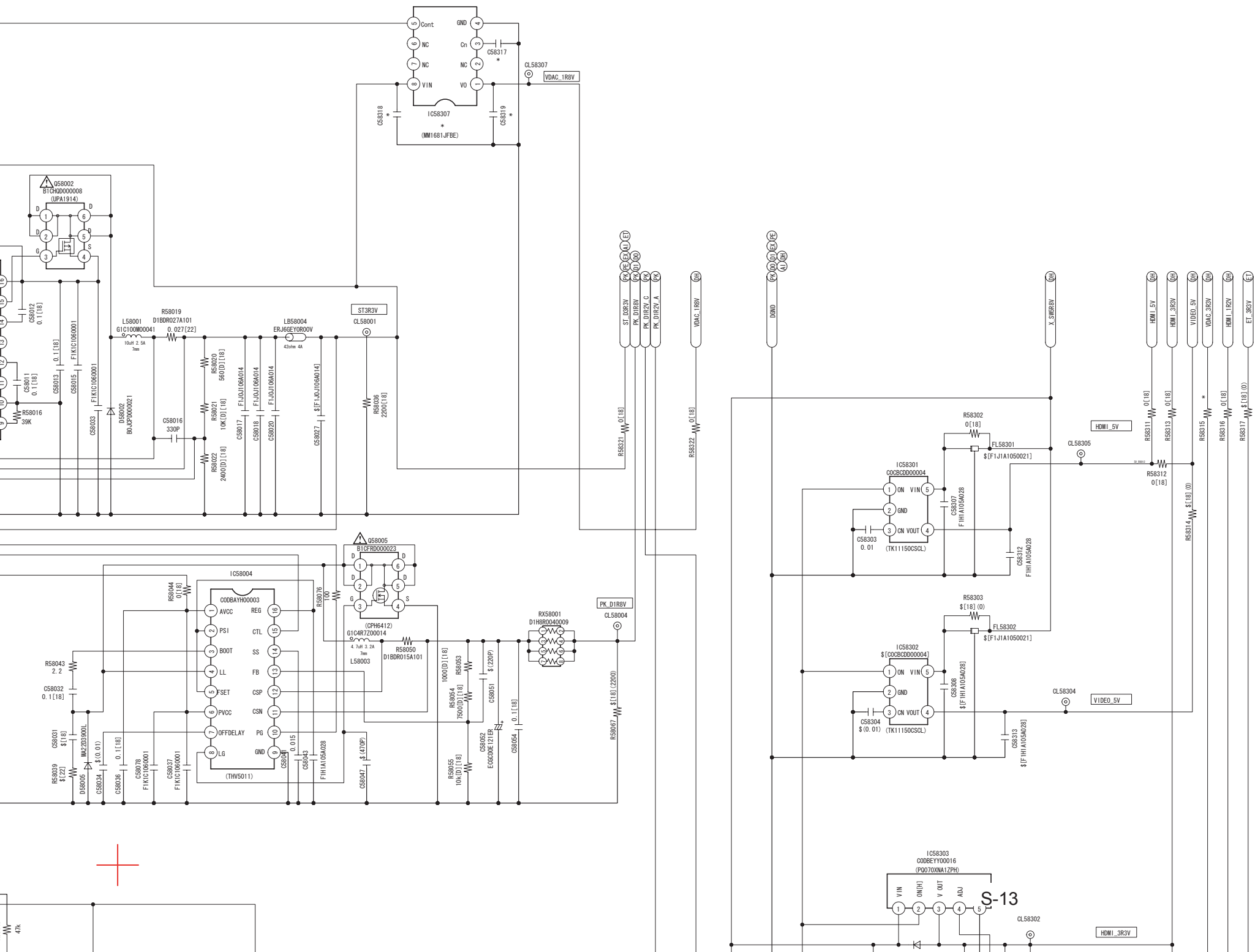
Confidential  
Until 2007/10/25

9	KEY SKIP FND
10	KEY PLAY
11	LED STANDBY
12	FL VP
13	FL CS
14	FL CS
15	FL CS
16	FL CS
17	FL CS
18	FL CS

VJB76166  
FRONT R

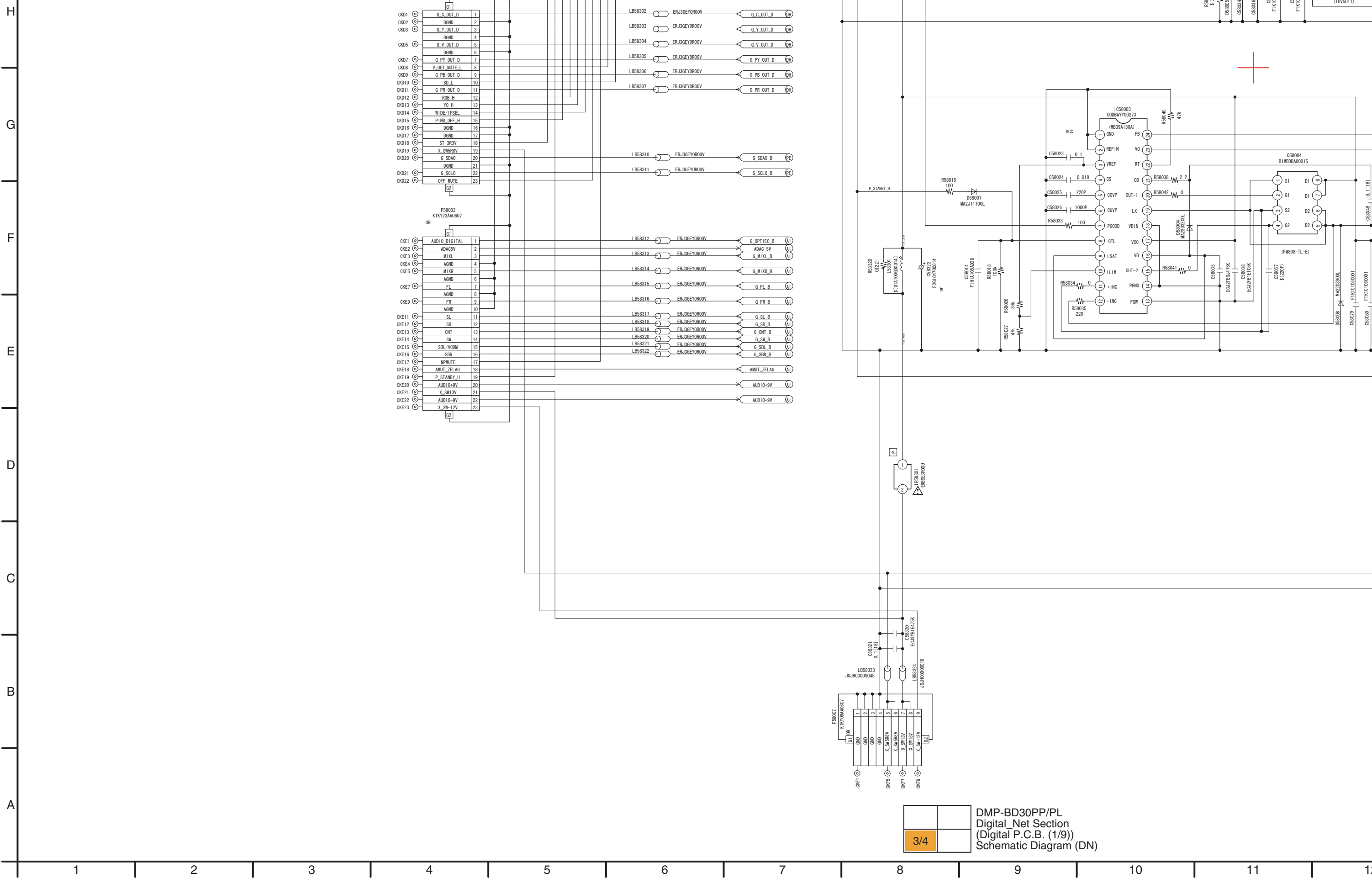






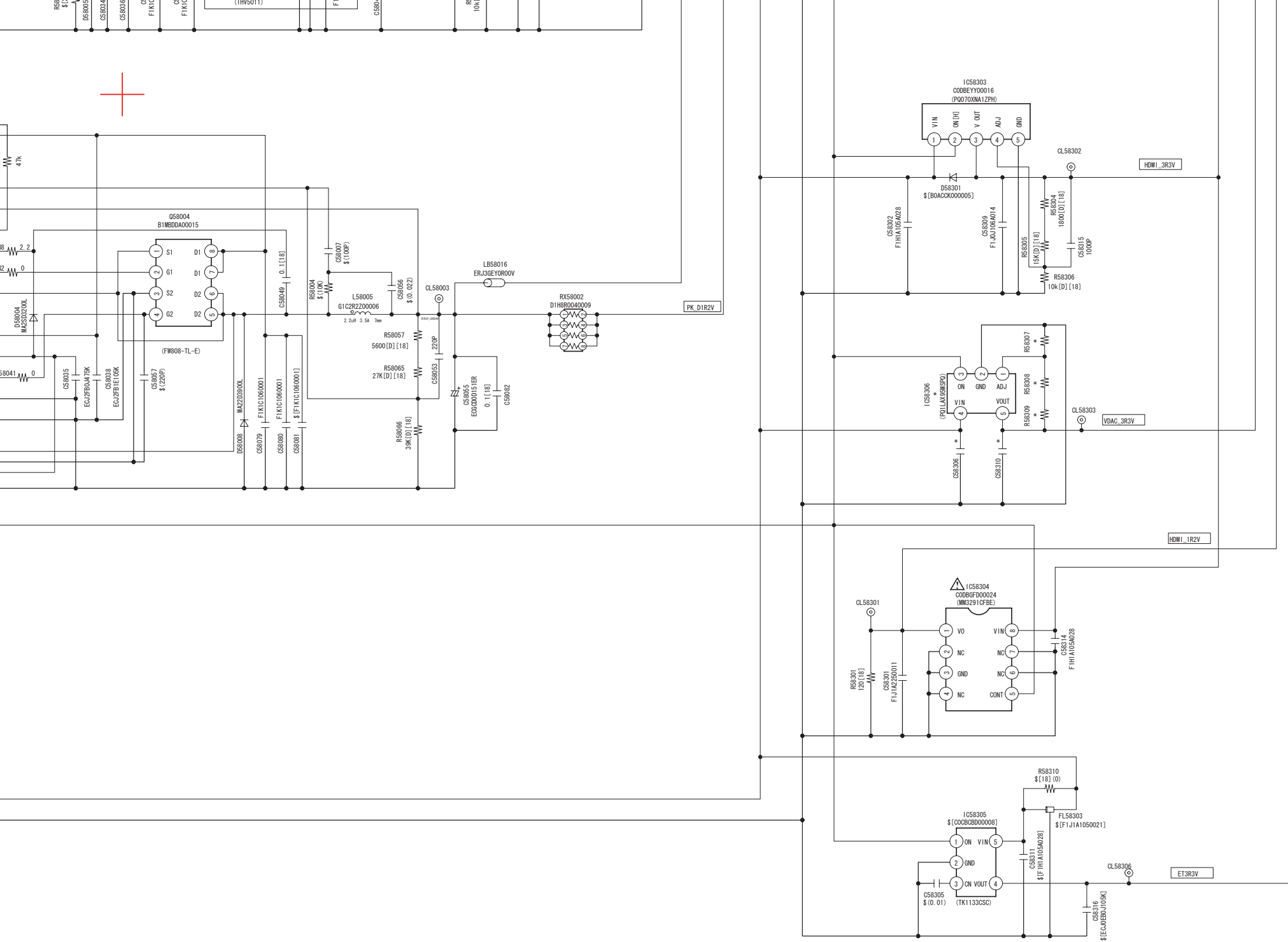
VariationCategory

	DMP-BD30PP/PL	DMP-BD30EG	DMP-BD30EE	DMP-BD30GN/GCS-BD31PL
C58306	\$(F1H1A105A028)	\$(F1H1A105A028)	\$(F1H1A105A028)	\$(F1H1A105A028)
C58310	\$(F1J0J106A014)	\$(F1J0J106A014)	\$(F1J0J106A014)	\$(F1J0J106A014)
C58317	\$(0.01)	\$(0.01)	\$(0.01)	\$(0.01)
C58318	\$(F1J0J106A014)	\$(F1J0J106A014)	\$(F1J0J106A014)	\$(F1J0J106A014)
C58319	\$(F1J0J106A014)	\$(F1J0J106A014)	\$(F1J0J106A014)	\$(F1J0J106A014)
IC58306	\$(C008BEH00005)	\$(C008BEH00005)	\$(C008BEH00005)	\$(C008BEH00005)
IC58307	\$(C008CAD000082)	\$(C008CAD000082)	\$(C008CAD000082)	\$(C008CAD000082)
R58307	\$(10K(D))	\$(10K(D))	\$(10K(D))	\$(10K(D))
R58308	\$(4700(D))	\$(4700(D))	\$(4700(D))	\$(4700(D))
R58309	\$(12K(D))	\$(12K(D))	\$(12K(D))	\$(12K(D))
R58315	\$(0.18)	\$(0.18)	\$(0.18)	\$(0.18)



DMP-BD30PP/PL  
 Digital\_Net Section  
 (Digital P.C.B. 1/9)  
 Schematic Diagram (DN)





[MP]

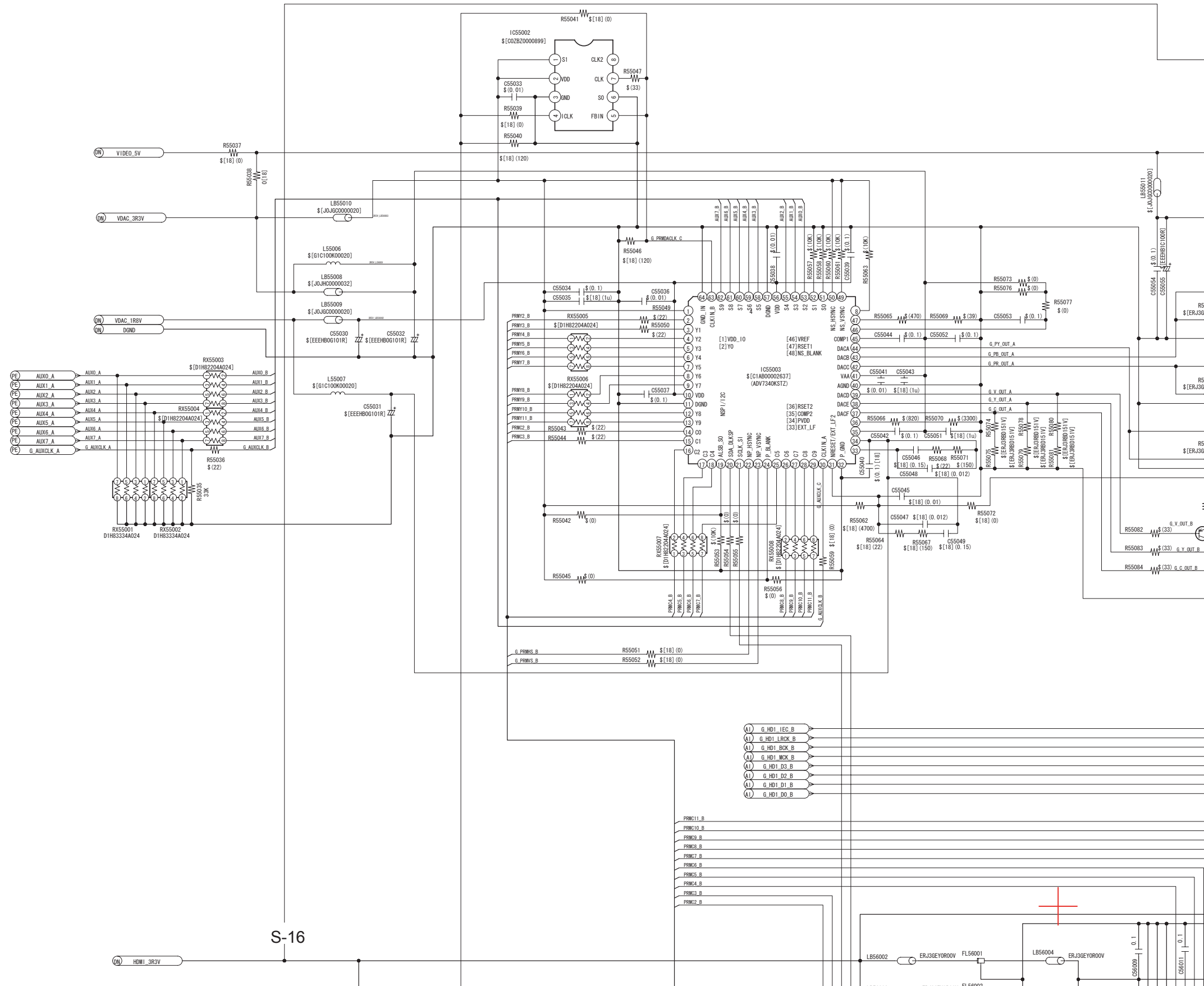
Confidential  
Until 2007/10

DMP-BD30PP/PL  
Digital\_Net Section  
(Digital P.C.B. (1/9))  
Schematic Diagram (DN)

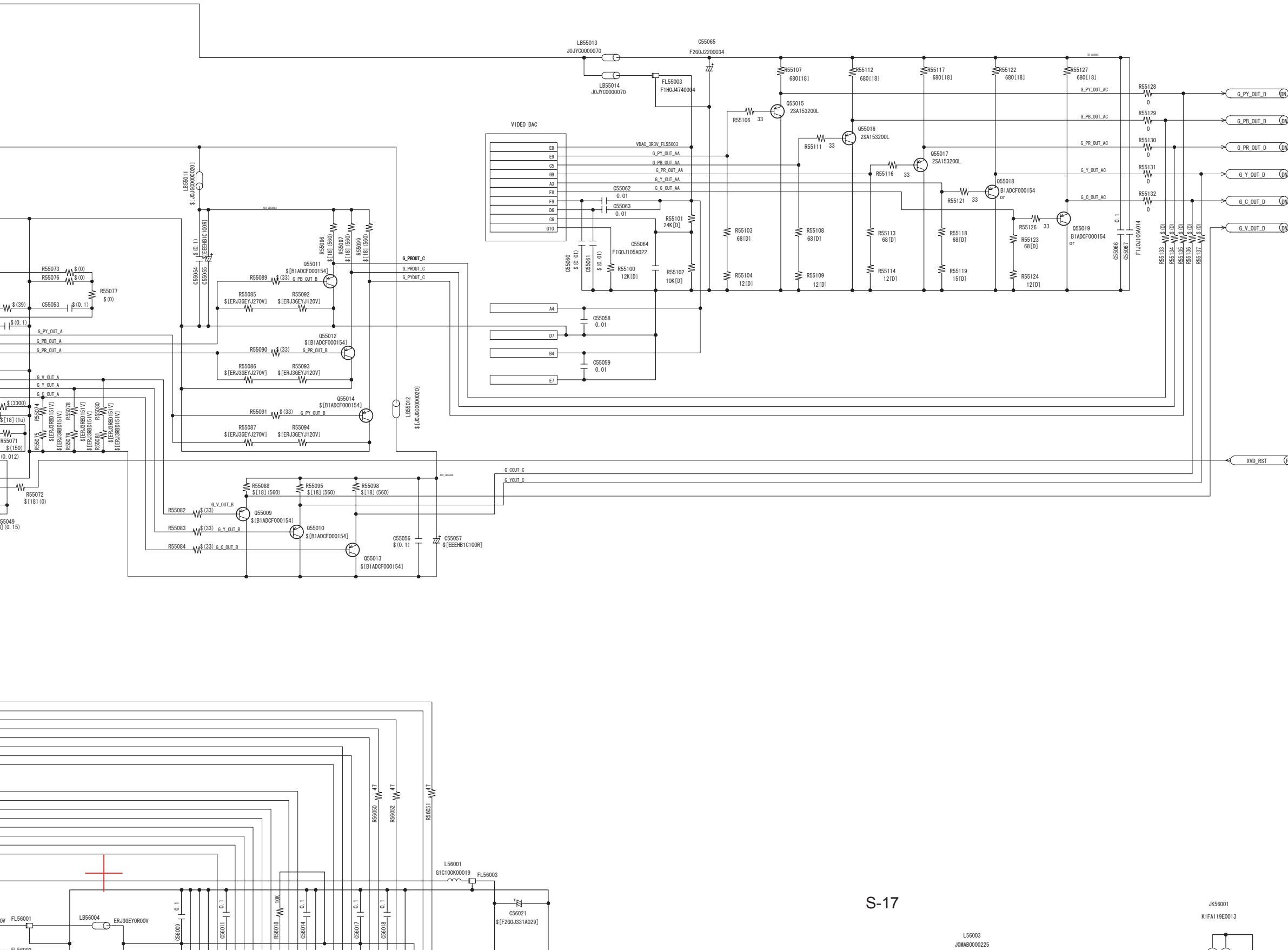
4/4

# S4.3. DAC\_HDMI (DH) Schematic Diagram

1/4  
 DMP-BD30PP/PL  
 DAC\_HDMI Section  
 (Digital P.C.B. (2/9))  
 Schematic Diagram (DH)

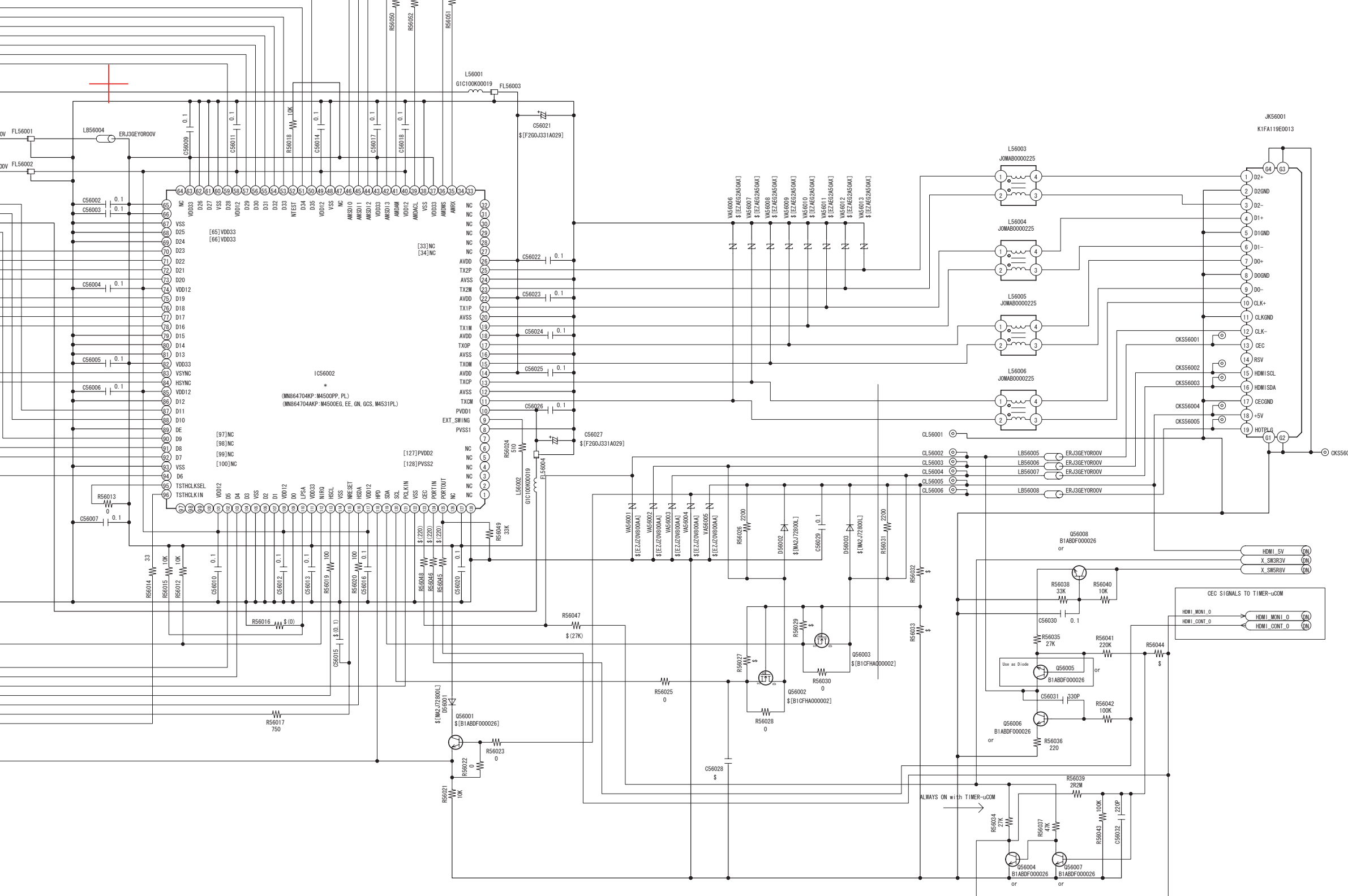


S-16









Modify Category		
	Variation	Type
1	DMP-BD30PP.PL	A
2	DMP-BD30EG	C
3	DMP-BD30EE	D
4	DMP-BD30GN.GCS.BD31PL	E

[PP]

Confidential  
Until 2007/10/25

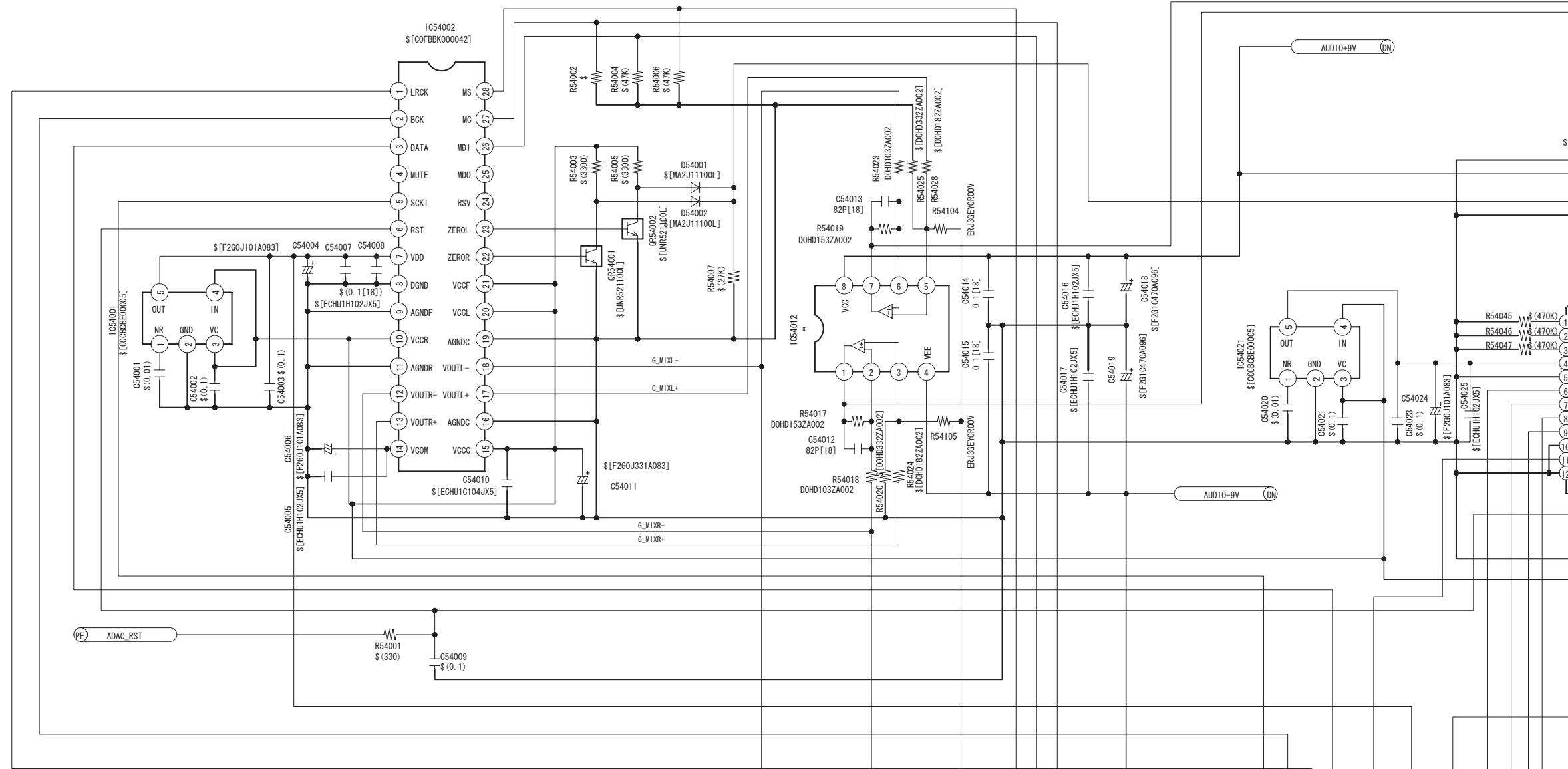
VariationCategory	A	C/D/E
IC56002	MN864704KP	MN864704AKP

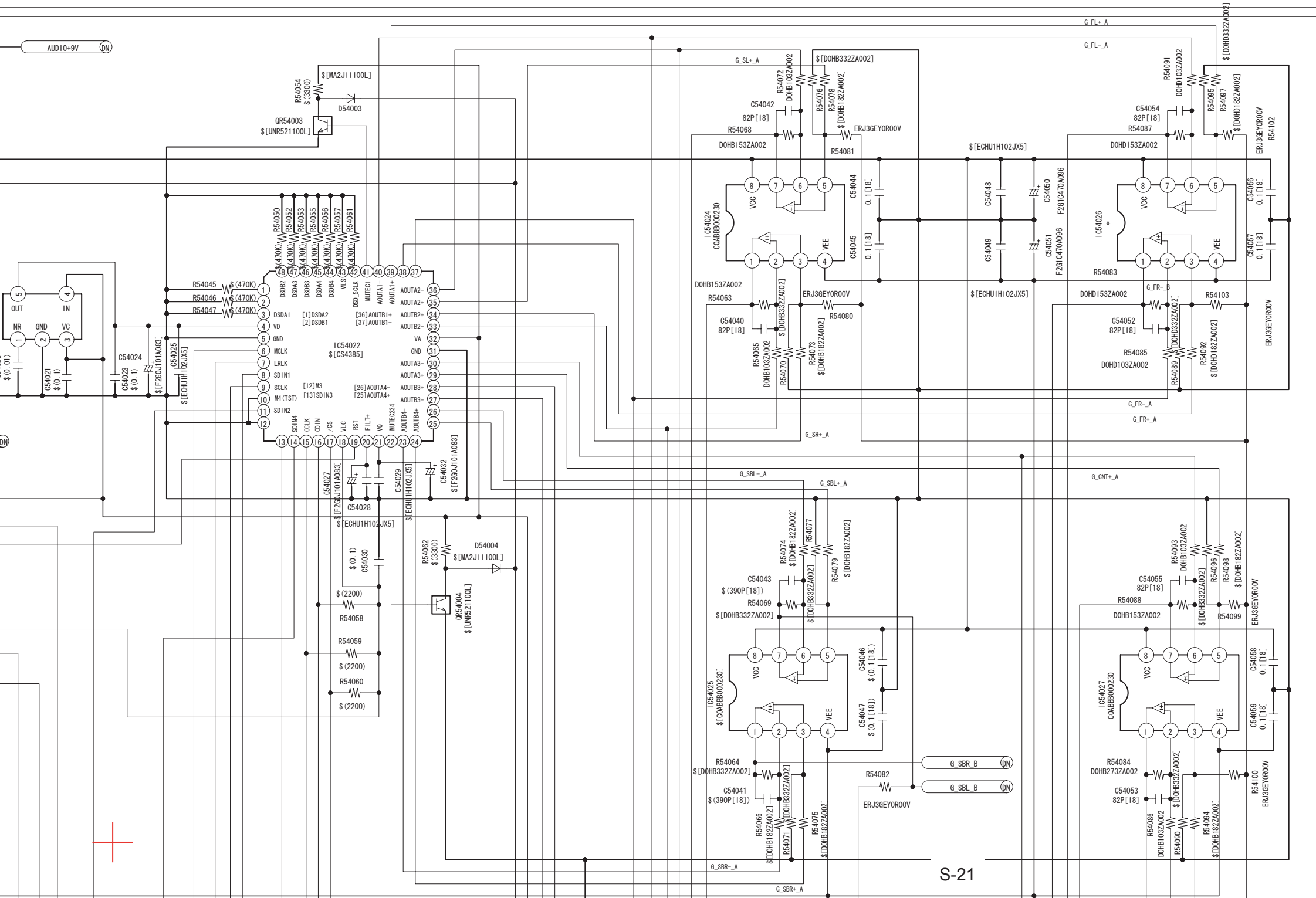
DMP-BD30PP/PL  
DAC\_HDMI Section  
(Digital P.C.B. (2/9))  
Schematic Diagram (DH)

4/4

# S4.4. Audio\_IO (AI) Schematic Diagram

1/4 DMP-BD30PP/PL  
Audio\_IO Section  
(Digital P.C.B. (3/9))  
Schematic Diagram (AI)







H  
G  
F  
E  
D  
C  
B  
A

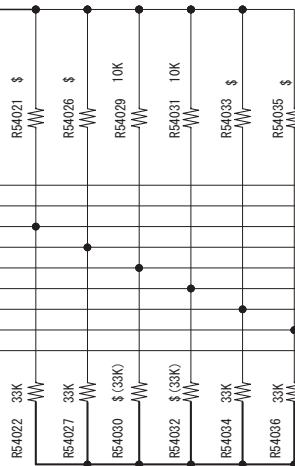
1 2 3 4 5 6 7 8 9 10 11 12

- PE G\_SB12\_B
- PE G\_SB13\_B
- PE G\_SBT3\_B
- PE G\_SBT3\_B
- PE G\_768FSA\_B

(DN) ST\_D3R3V

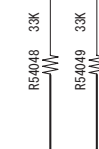
MN2WS0043AP

IC51001 or			
L1	G_ADAC_MCK_A	R54009	\$ (47)
K5	G_ADAC_BCK_A	R54010	47
K3	G_ADAC_LRCK_A	R54011	100
K2	G_ADAC_MIX_A	R54013	100
L6	G_ADAC_DO_A	R54012	100
K1	G_ADAC_D1_A	R54014	100
L5	G_ADAC_D2_A	R54015	100
L2	G_ADAC_D3_A	R54016	100
M7	G_OPT1EC_A	R54008	47



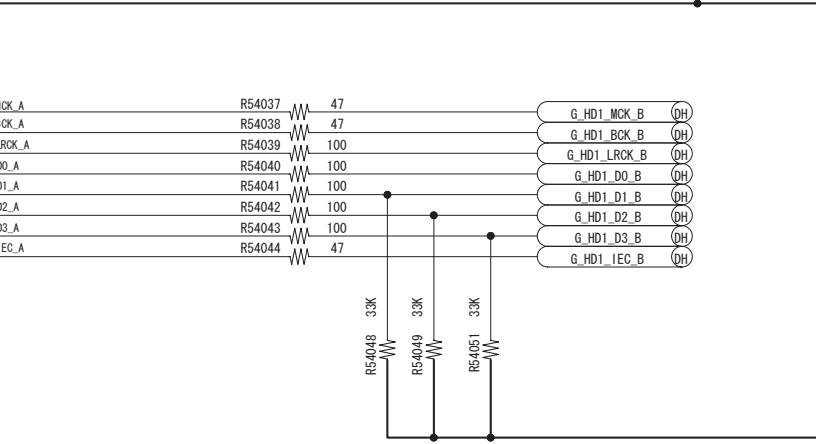
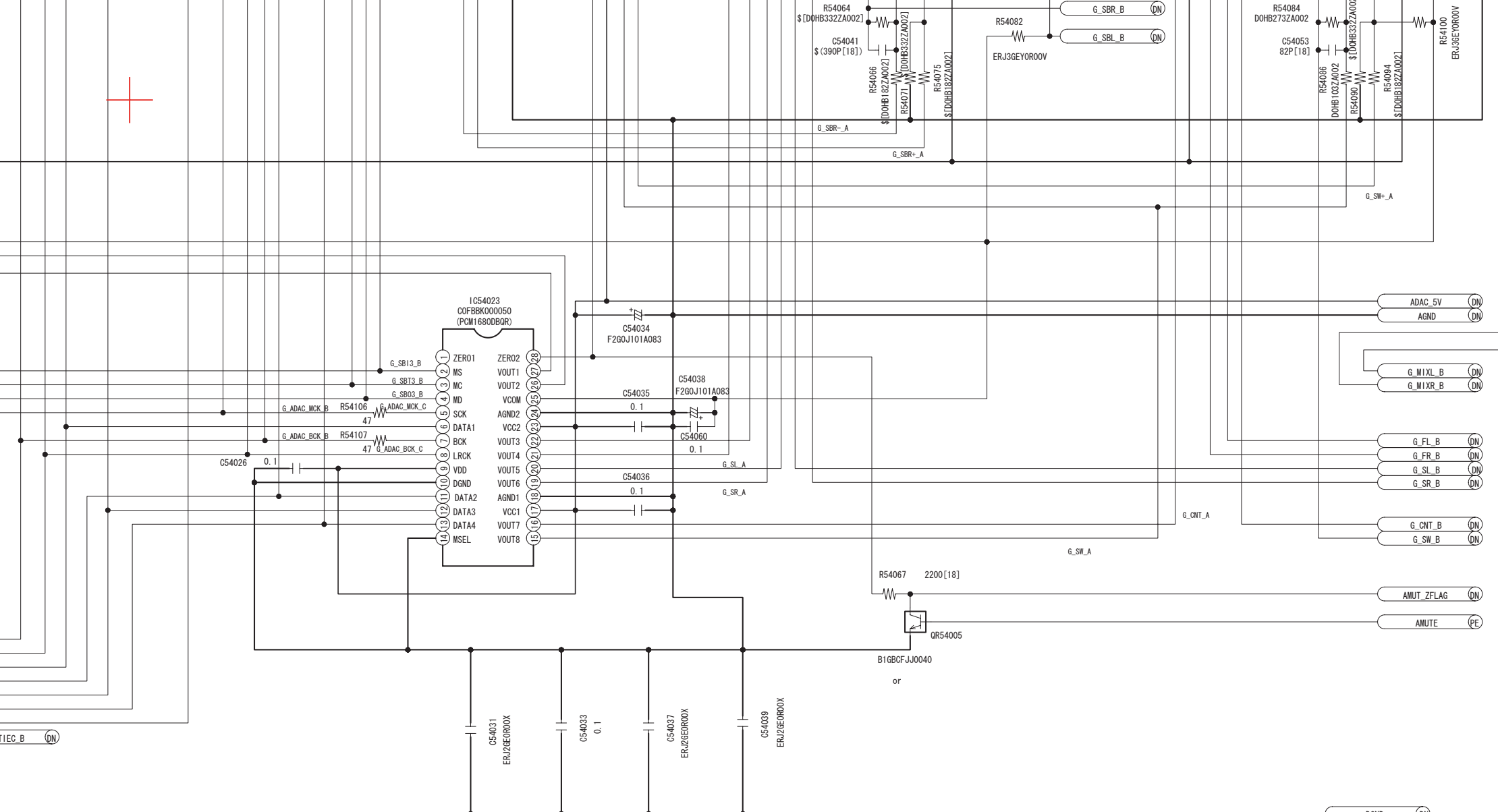
MN2WS0043AP

IC51001 or			
C7	G_HD1_MCK_A	R54037	47
G11	G_HD1_BCK_A	R54038	47
B6	G_HD1_LRCK_A	R54039	100
	G_HD1_DO_A	R54040	100
E11	G_HD1_D1_A	R54041	100
F11	G_HD1_D2_A	R54042	100
D10	G_HD1_D3_A	R54043	100
A6	G_HD1_IEC_A	R54044	47
A5			



3/4 DMP-BD30PP/PL  
Audio\_IO Section  
(Digital P.C.B. (3/9))  
Schematic Diagram (AI)



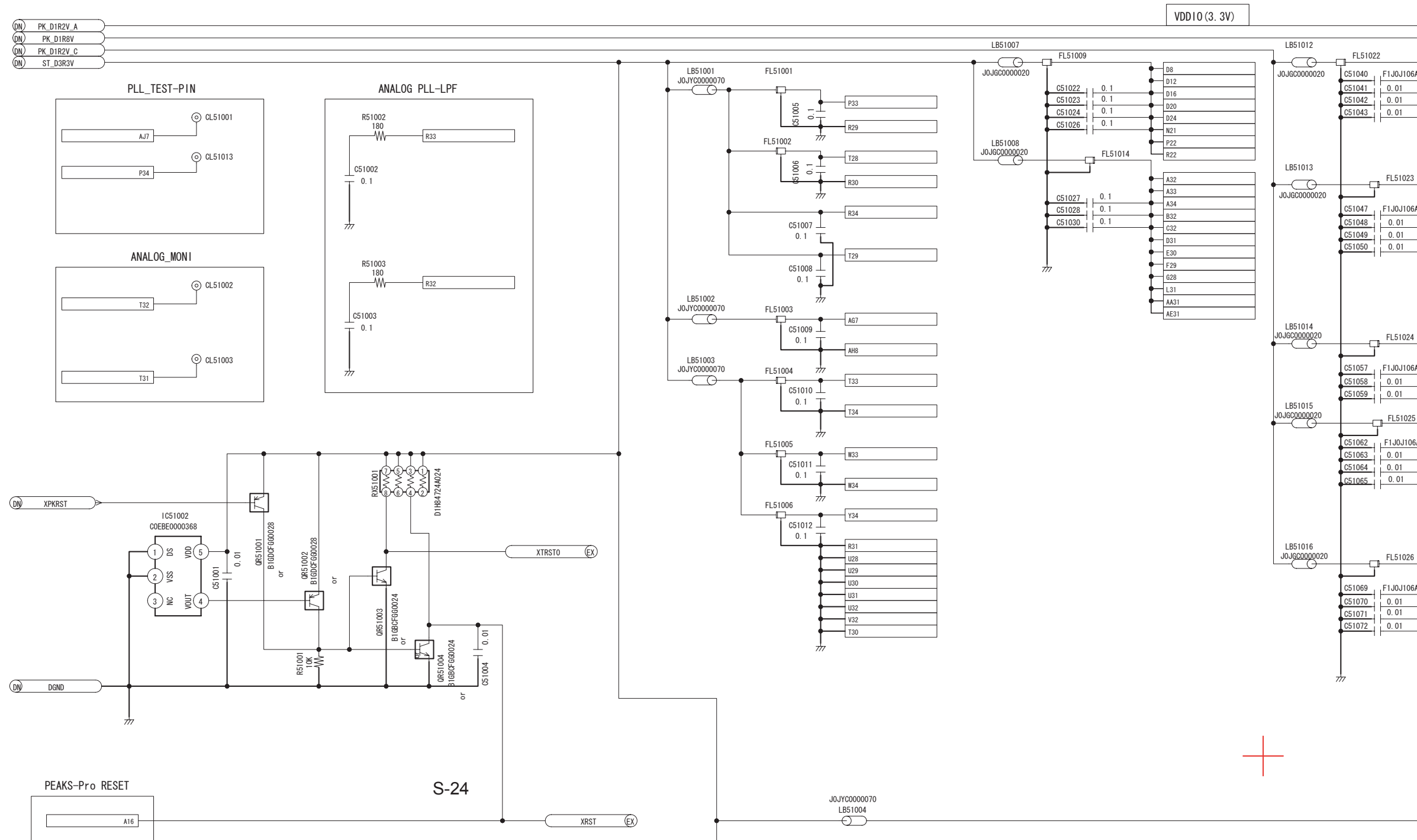


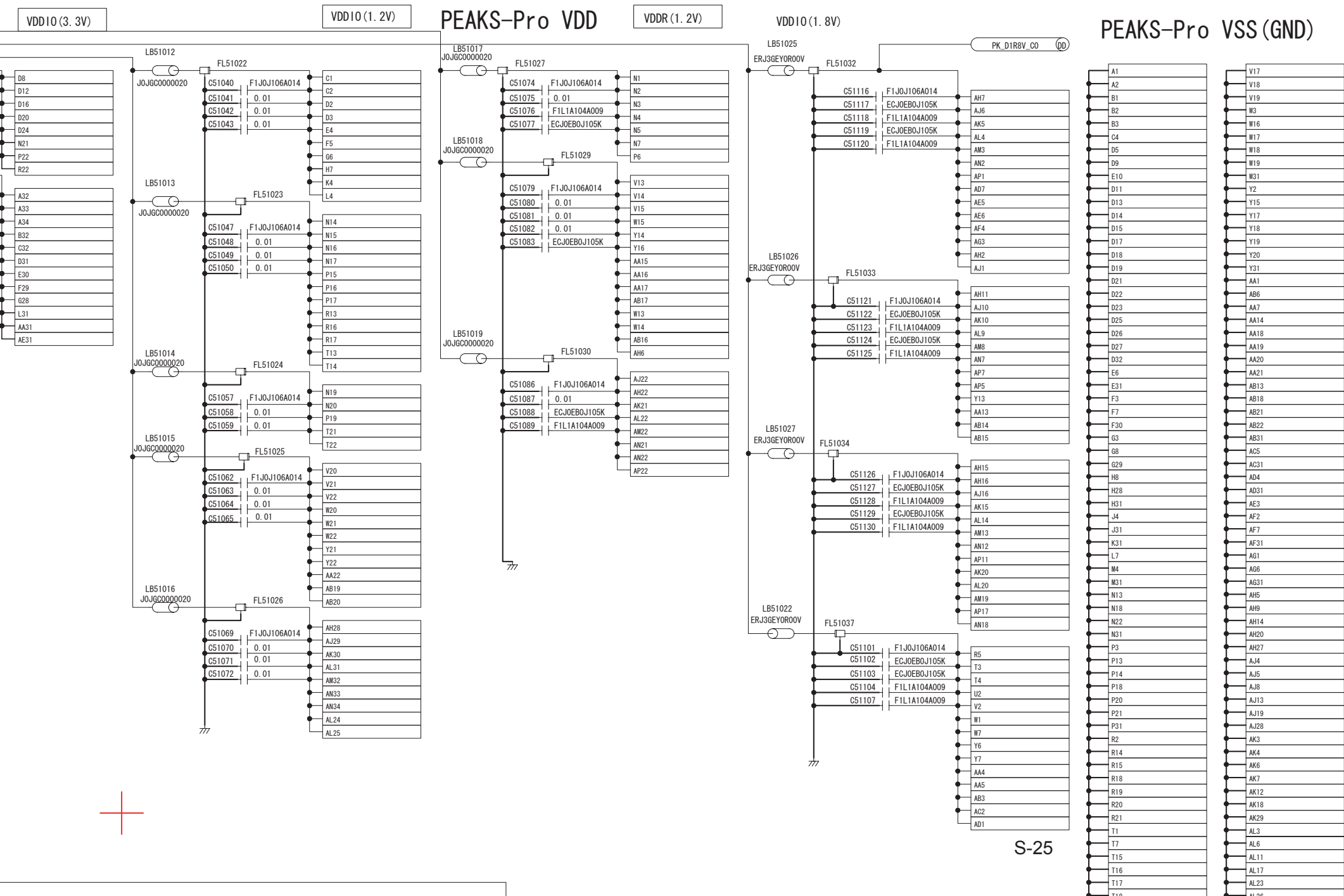
Confidential  
Until 2007.10.25

[PP]

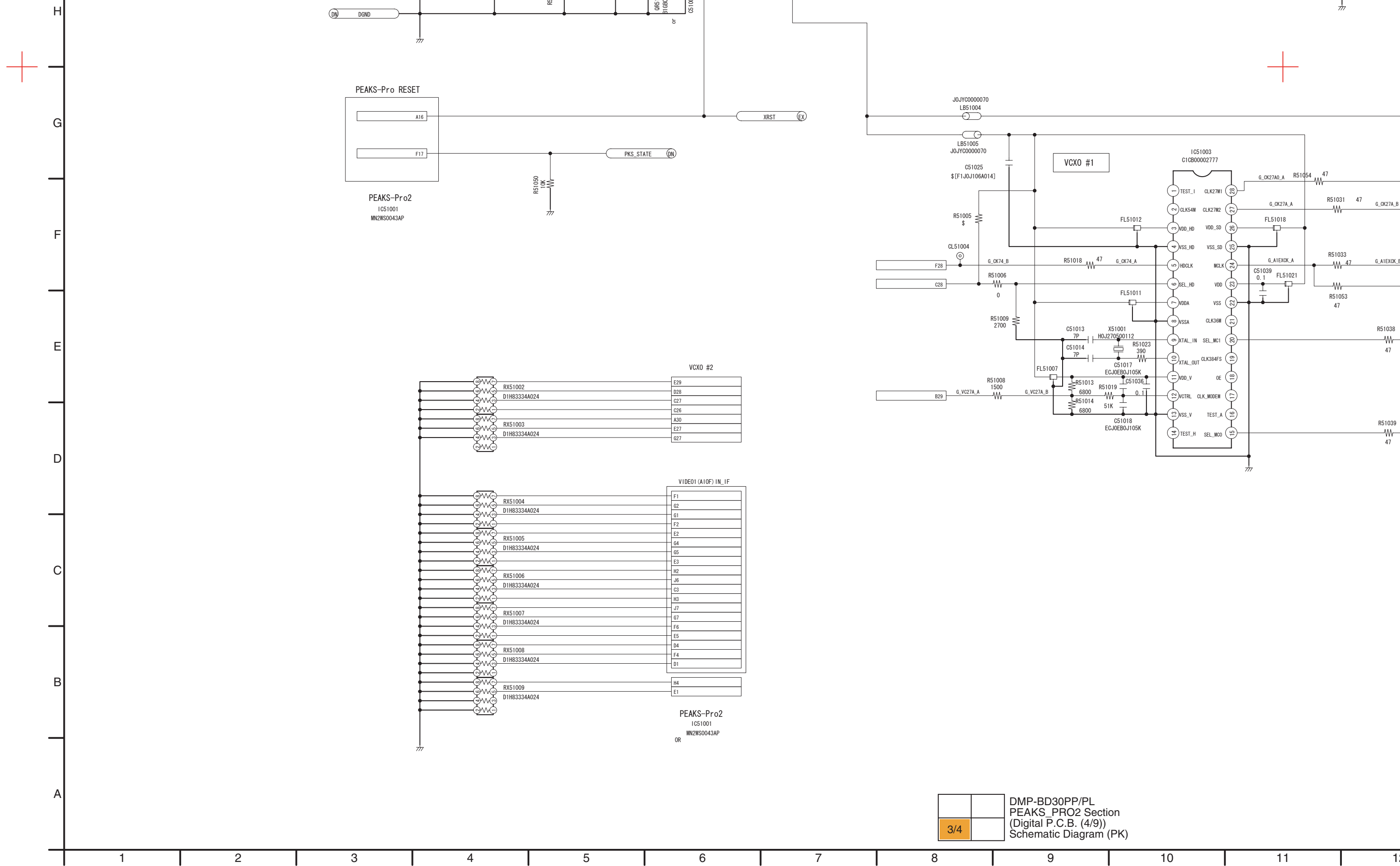
# S4.5. PEAKS\_PRO2 (PK) Schematic Diagram

1/4 DMP-BD30PP/PL  
PEAKS\_PRO2 Section  
(Digital P.C.B. (4/9))  
Schematic Diagram (PK)

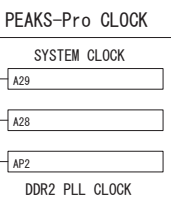
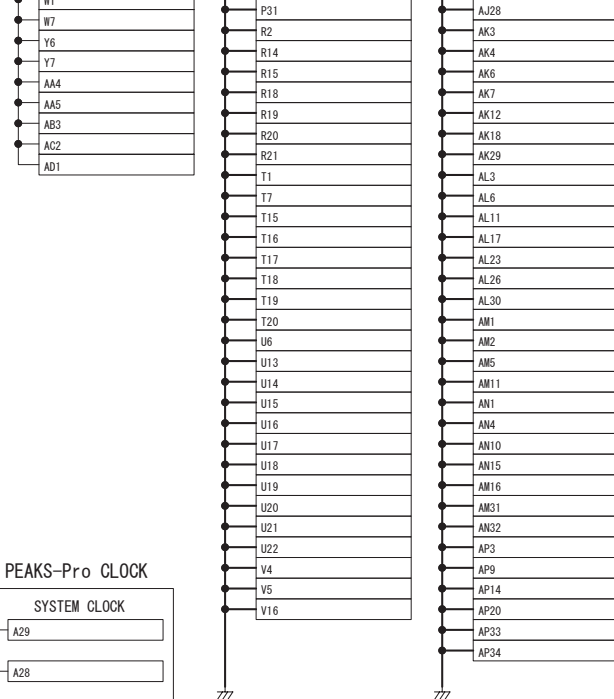
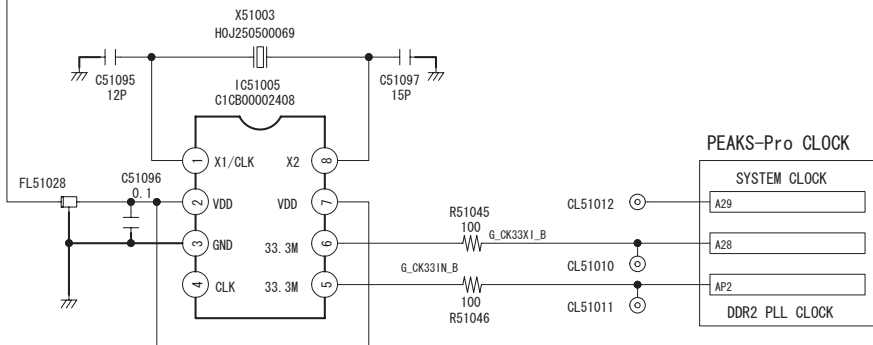
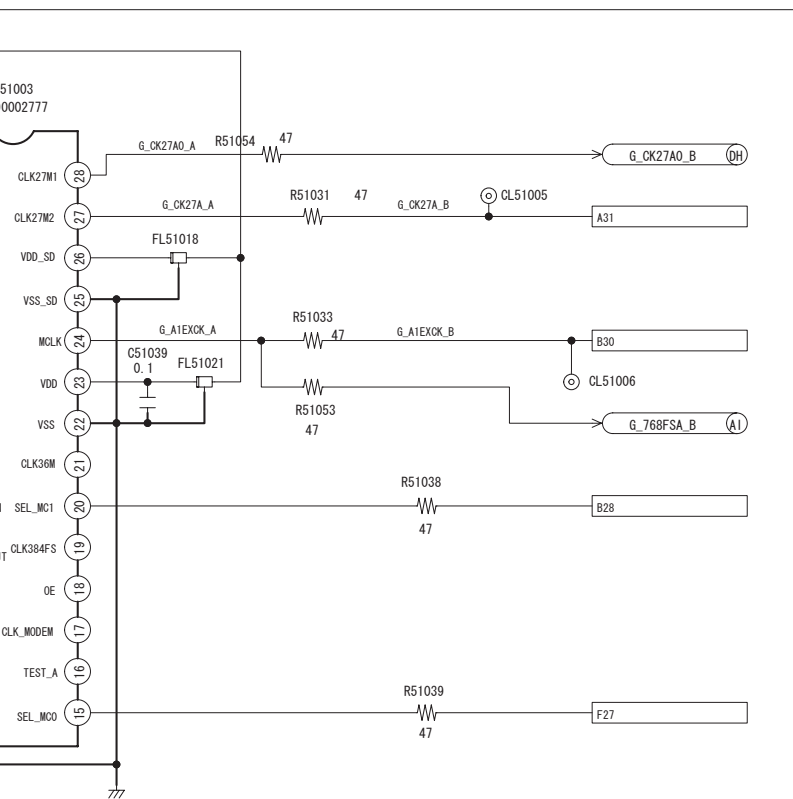








DMP-BD30PP/PL  
 PEAKS\_PRO2 Section  
 (Digital P.C.B. (4/9))  
 Schematic Diagram (PK)



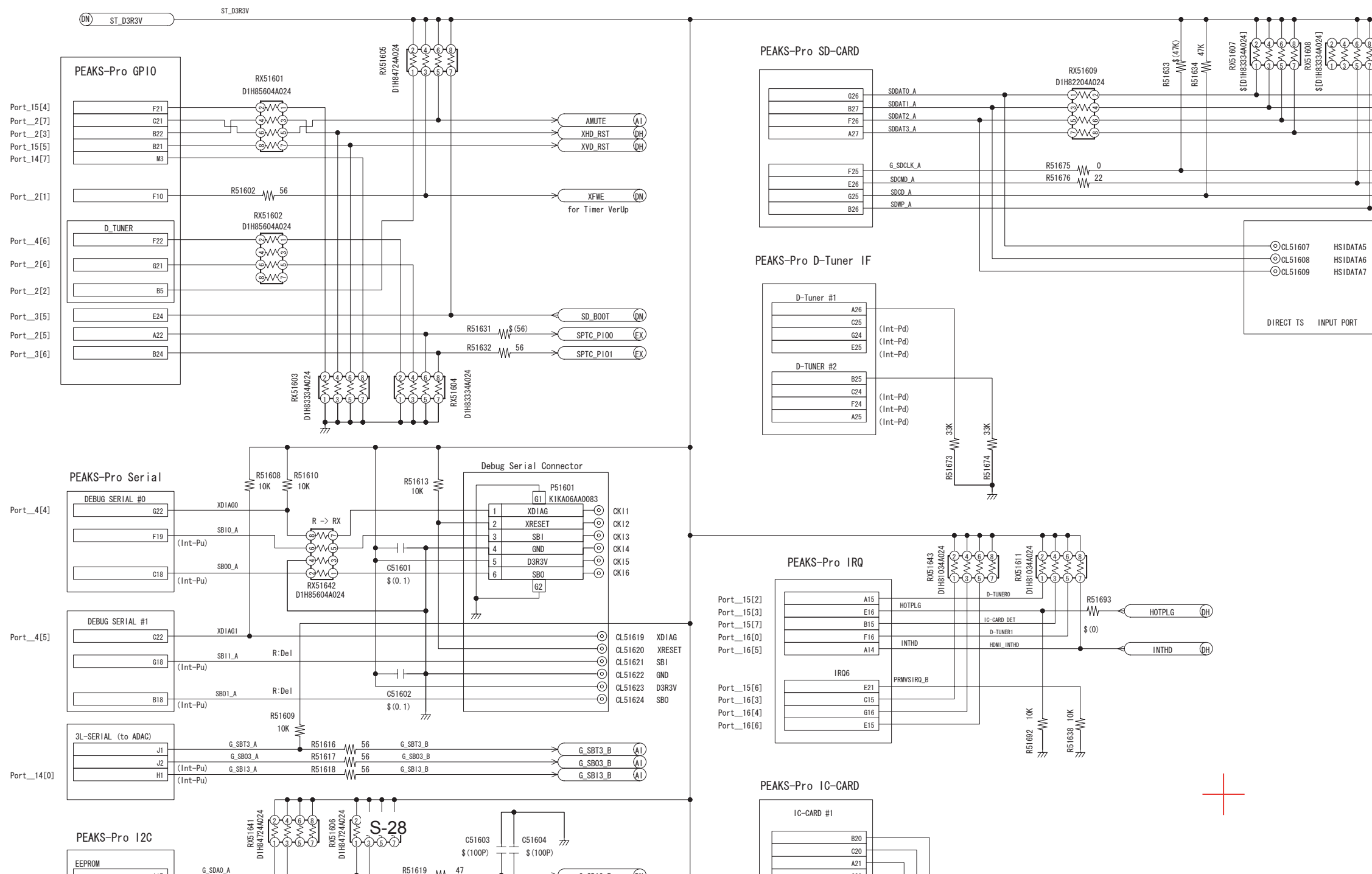
Confidential  
Until 2007/10/25

[MP]

DMP-BD30PP/PL  
PEAKS\_PRO2 Section  
(Digital P.C.B. (4/9))  
Schematic Diagram (PK)

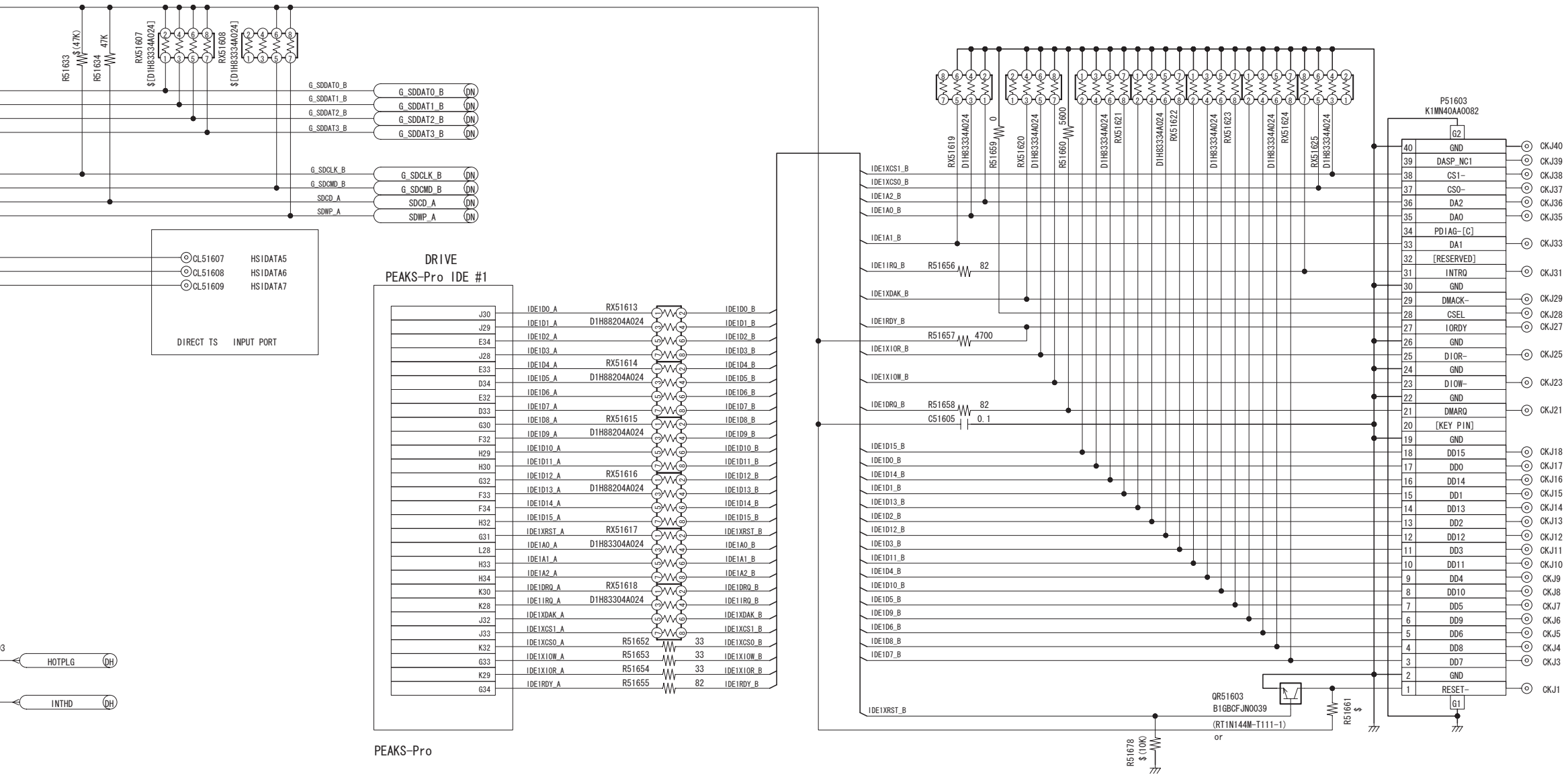
4/4

# S4.6. PRO2\_PERI (PE) Schematic Diagram



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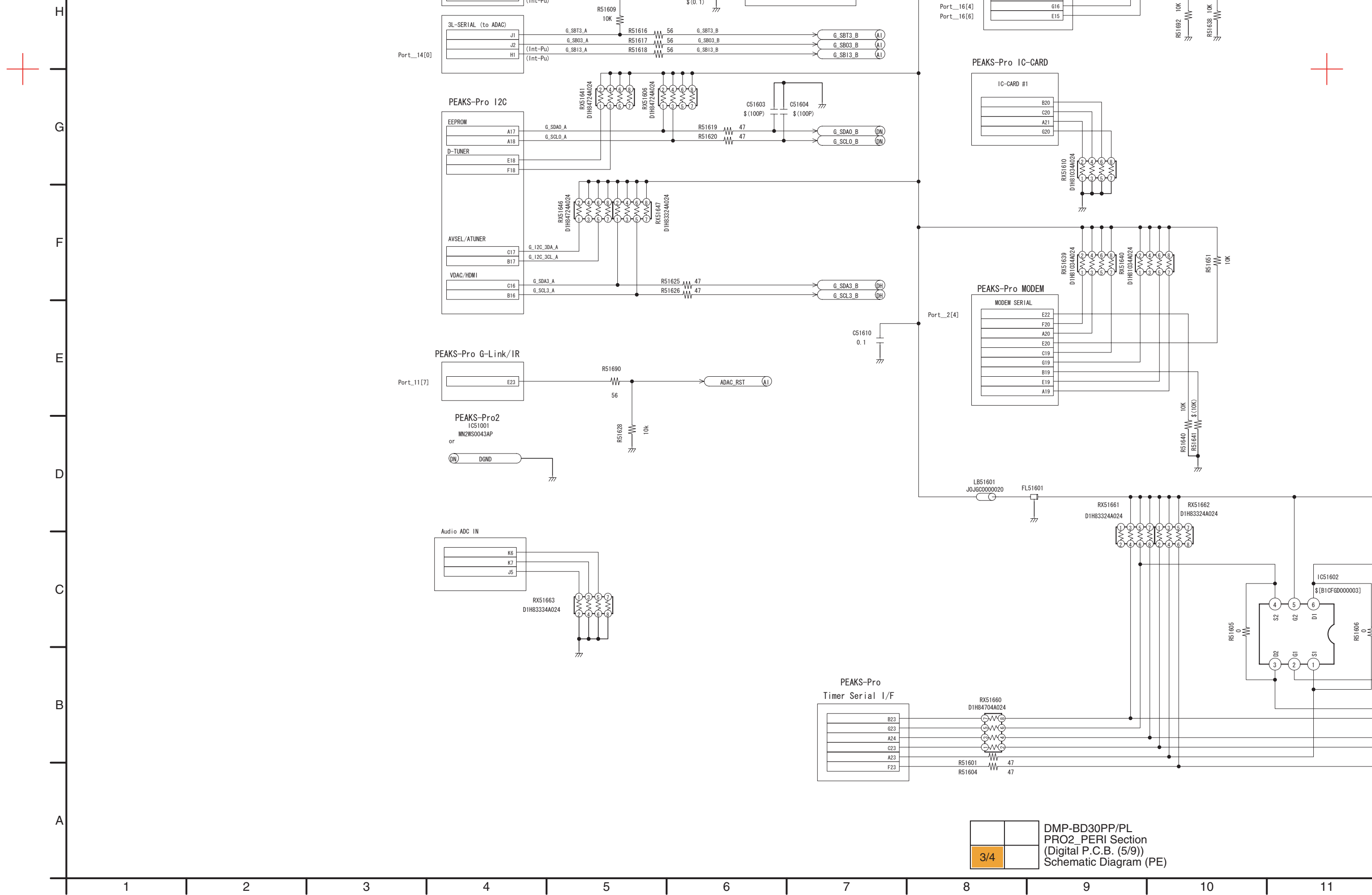


PEAKS-Pro

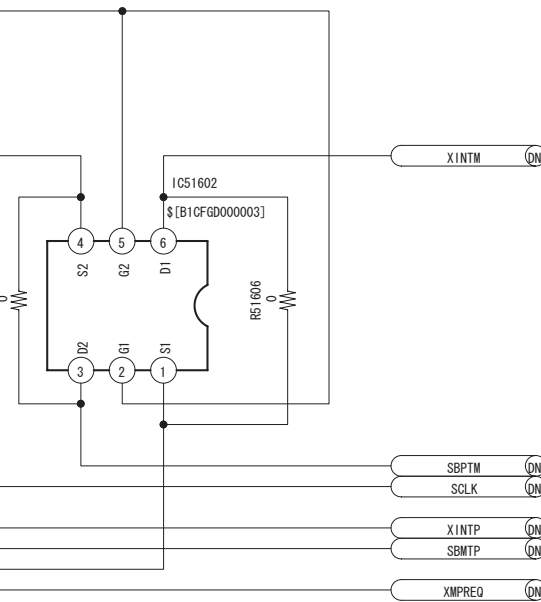
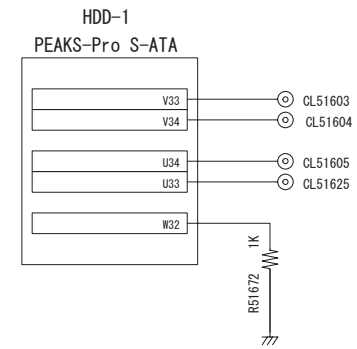
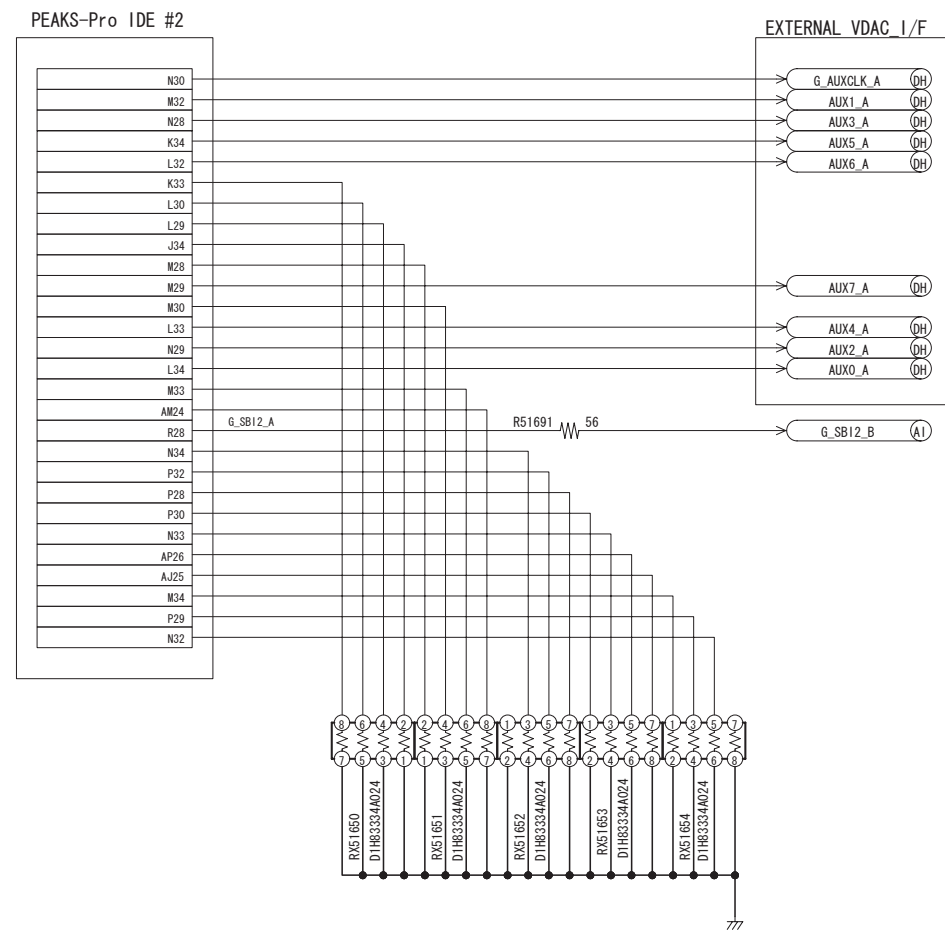
PEAKS-Pro IDE #2

EXTERNAL VDAC I/F

HDD-1  
KS-Pro S-ATA



DMP-BD30PP/PL  
 PRO2\_PERI Section  
 (Digital P.C.B. (5/9))  
 Schematic Diagram (PE)



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Until 2007/10/25

[MP]

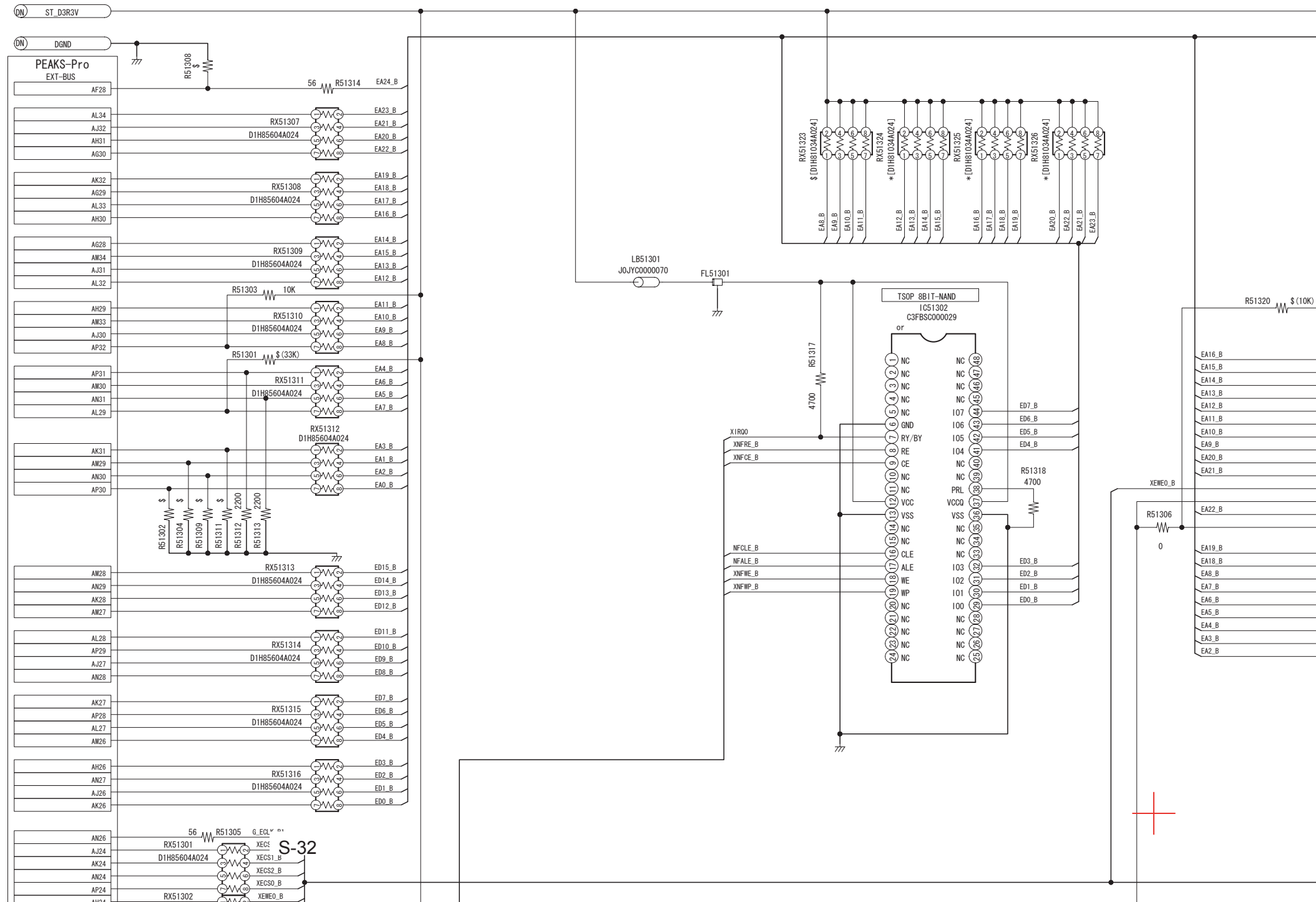
		DMP-BD30PP/PL PRO2_PERI Section (Digital P.C.B. (5/9)) Schematic Diagram (PE)
	4/4	

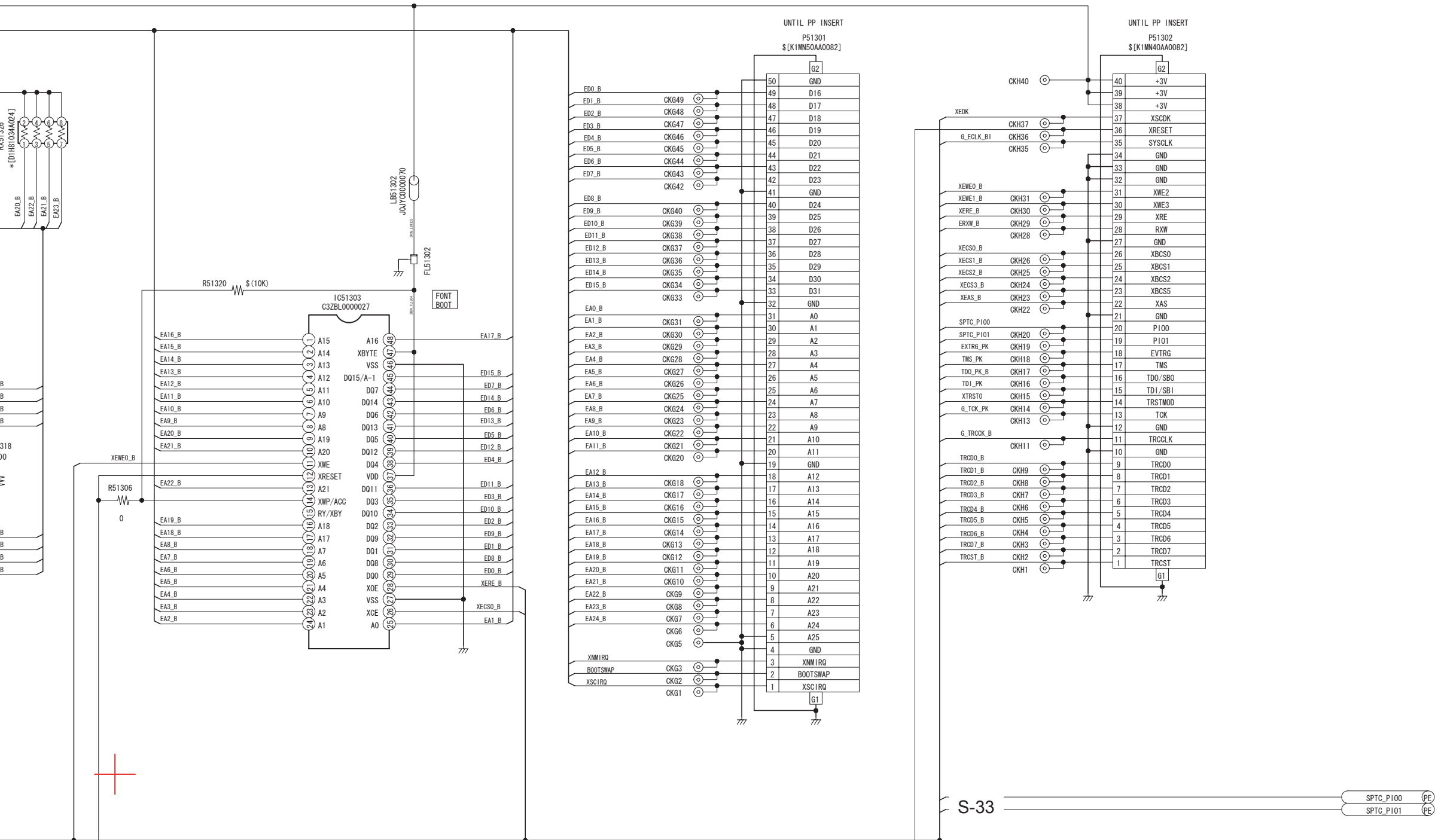


# S4.7. PRO2\_EXBUS (EX) Schematic Diagram

1/4 DMP-BD30PP/PL  
PRO2\_EXBUS Section  
(Digital P.C.B. (6/9))  
Schematic Diagram (EX)

N  
M  
L  
K  
J  
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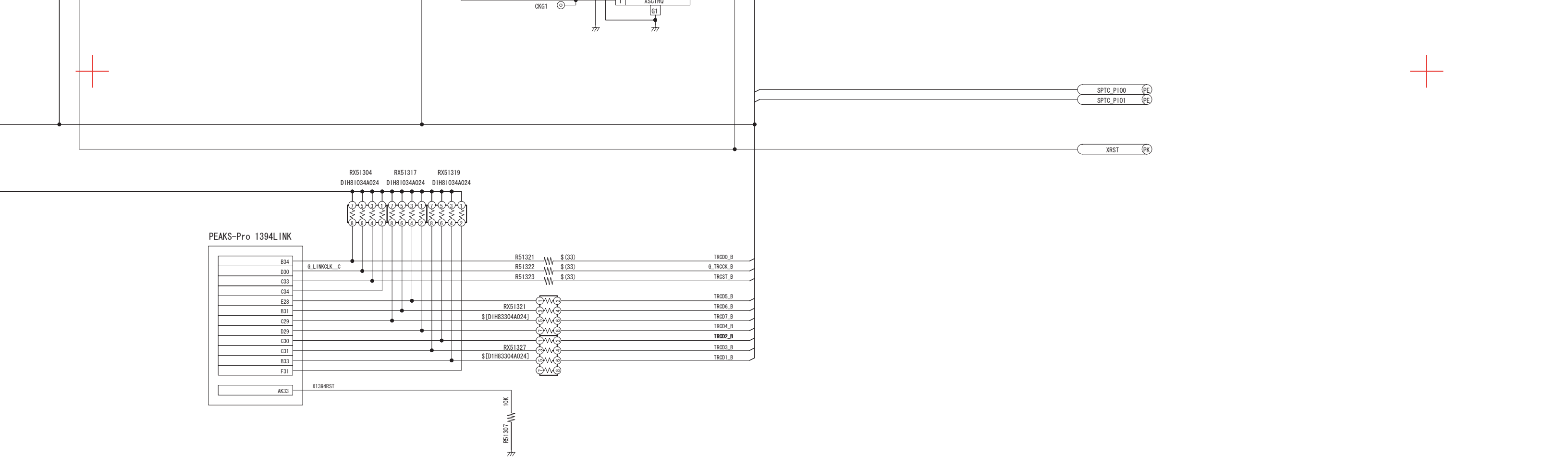




S-33 SPTC\_P100 PE SPTC\_P101 PE







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 Until 2007/10/25

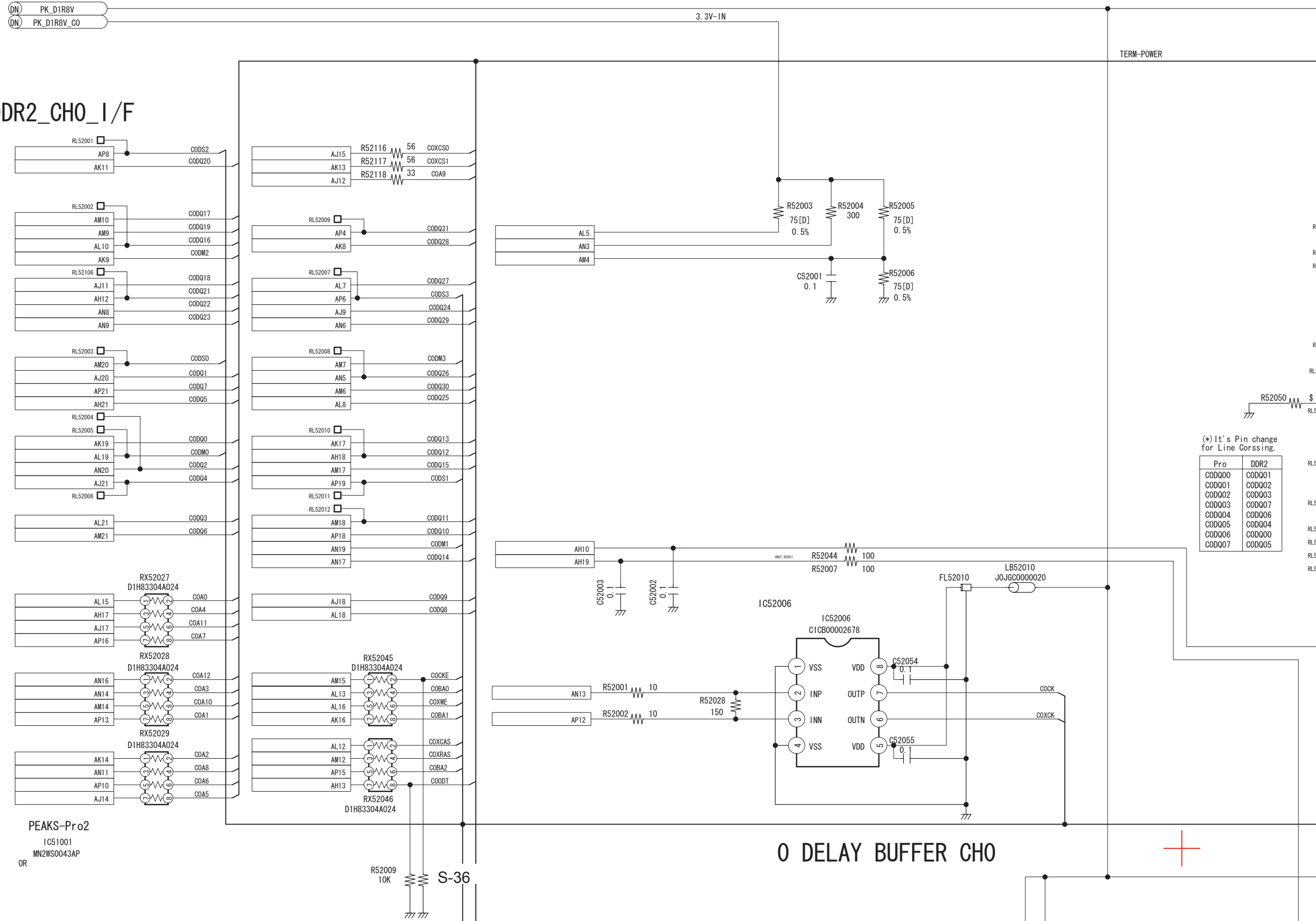
[MP]

		DMP-BD30PP/PL PRO2_EXBUS Section (Digital P.C.B. (6/9)) Schematic Diagram (EX)
	4/4	

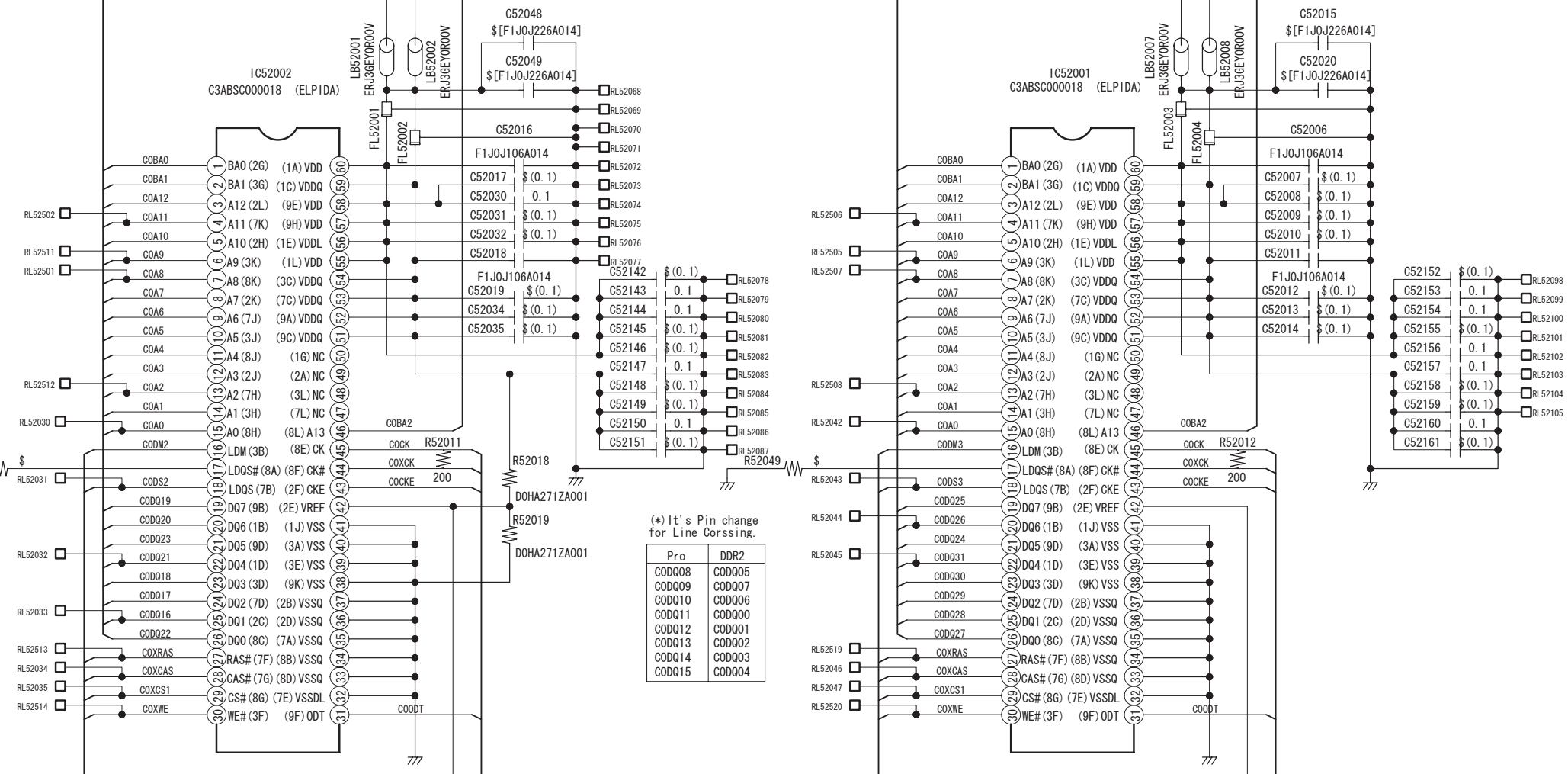
# S4.8. DDR2\_CH0 (D0) Schematic Diagram

1/4 DMP-BD30PP/PL  
DDR2\_CH0 Section  
(Digital P.C.B. (7/9))  
Schematic Diagram (D0)

## DDR2\_CHO\_I/F



TERM-POWER



(\* It's Pin change for Line Corssing.

Pro	DDR2
CODQ00	CODQ01
CODQ01	CODQ02
CODQ02	CODQ03
CODQ03	CODQ07
CODQ04	CODQ06
CODQ05	CODQ04
CODQ06	CODQ00
CODQ07	CODQ05

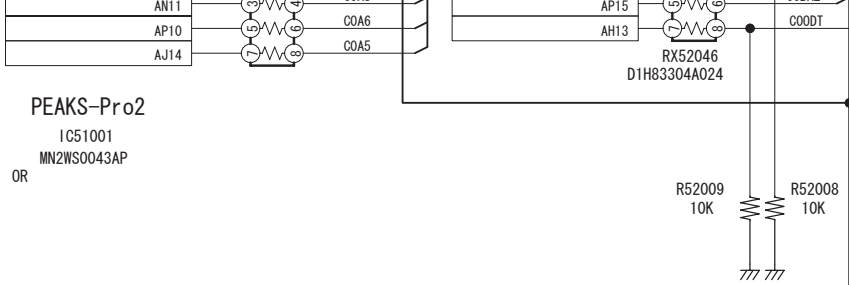
(\* It's Pin change for Line Corssing.

Pro	DDR2
CODQ08	CODQ05
CODQ09	CODQ07
CODQ10	CODQ06
CODQ11	CODQ00
CODQ12	CODQ01
CODQ13	CODQ02
CODQ14	CODQ03
CODQ15	CODQ04

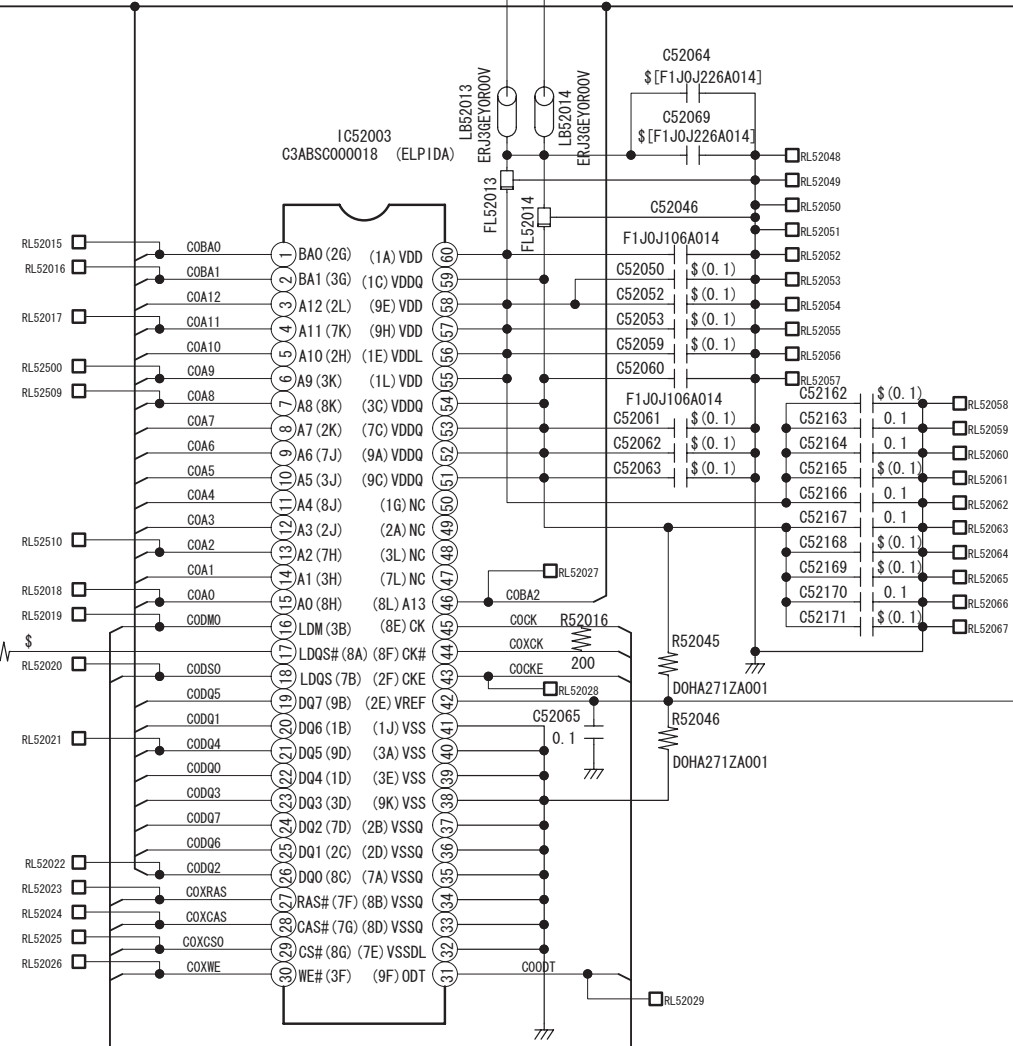
DDR2 CHO (#2)

DDR2 CHO (#3)

H  
G  
F  
E  
D  
C  
B  
A



0 DELAY BUFFER CHO



(\*) It's Pin change for Line Corssing.

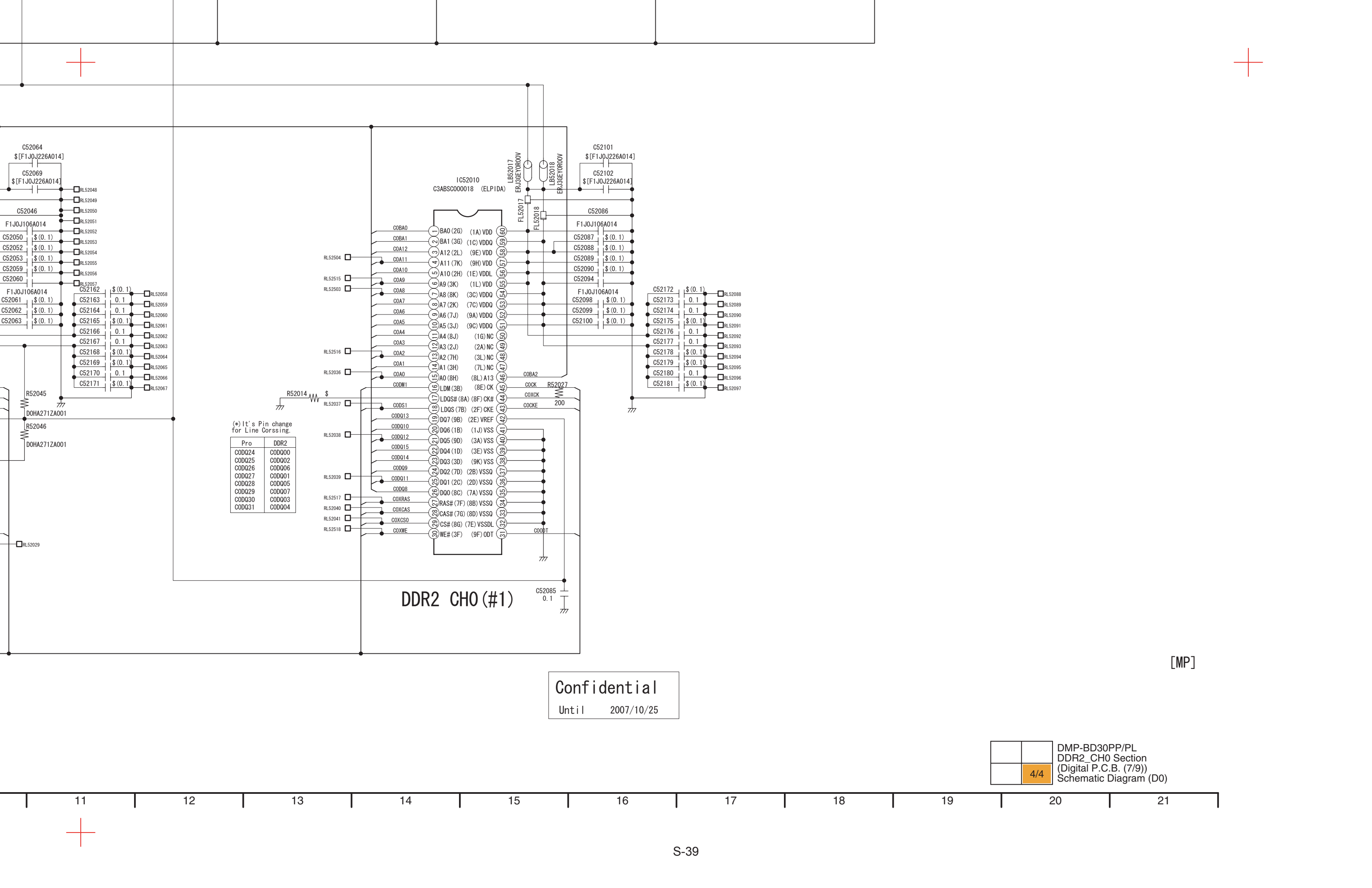
Pro	DDR2
CODQ16	CODQ04
CODQ17	CODQ06
CODQ18	CODQ00
CODQ19	CODQ03
CODQ20	CODQ05
CODQ21	CODQ07
CODQ22	CODQ01
CODQ23	CODQ02

DDR2 CH0 (#0)

DMP-BD30PP/PL  
DDR2\_CH0 Section  
(Digital P.C.B. (7/9))  
Schematic Diagram (D0)

3/4

1 2 3 4 5 6 7 8 9 10 11



(\*) It's Pin change for Line Corssing.

Pro	DDR2
CODQ24	CODQ00
CODQ25	CODQ02
CODQ26	CODQ06
CODQ27	CODQ01
CODQ28	CODQ05
CODQ29	CODQ07
CODQ30	CODQ03
CODQ31	CODQ04

DDR2 CH0 (#1)

Confidential  
Until 2007/10/25

[MP]

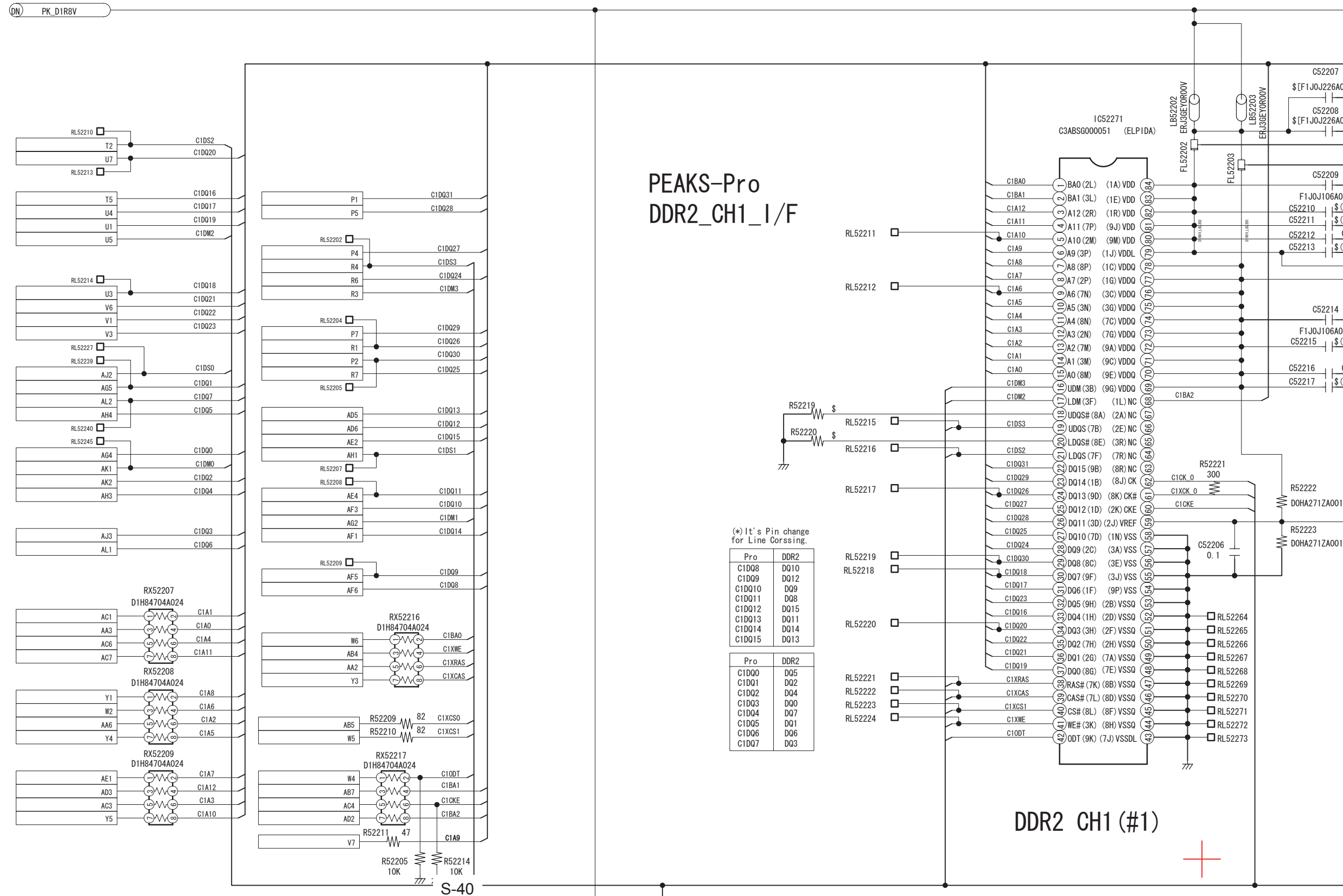
DMP-BD30PP/PL  
DDR2\_CH0 Section  
(Digital P.C.B. (7/9))  
Schematic Diagram (D0)

4/4

# S4.9. DDR2\_CH1\_16 (D1) Schematic Diagram

1/4 DMP-BD30PP/PL  
DDR2\_CH1\_16 Section  
(Digital P.C.B. (8/9))  
Schematic Diagram (D1)

N  
M  
L  
K  
J  
I  
H  
G



PEAKS-Pro  
DDR2\_CH1\_1/F

(\* It's Pin change for Line Corssing.

Pro	DDR2
C1DQ8	DQ10
C1DQ9	DQ12
C1DQ10	DQ9
C1DQ11	DQ8
C1DQ12	DQ15
C1DQ13	DQ11
C1DQ14	DQ14
C1DQ15	DQ13

Pro	DDR2
C1DQ0	DQ5
C1DQ1	DQ2
C1DQ2	DQ4
C1DQ3	DQ0
C1DQ4	DQ7
C1DQ5	DQ1
C1DQ6	DQ6
C1DQ7	DQ3

0 DELAY BUFFER CH1

S-40

DDR2 CH1 (#1)

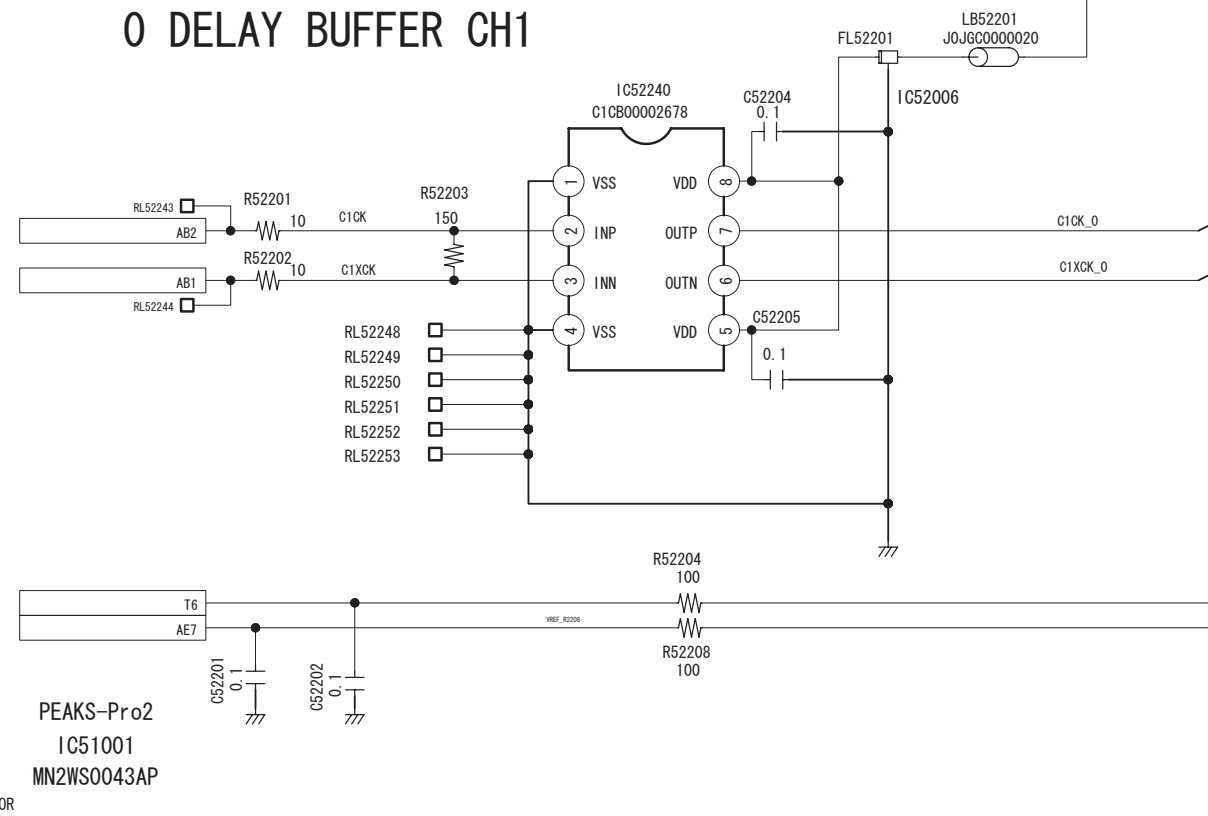






DDR2 CH1 (#1)

0 DELAY BUFFER CH1



OR  
PEAKS-Pro2  
IC51001  
MN2WS0043AP

		DMP-BD30PP/PL
		DDR2_CH1_16 Section
		(Digital P.C.B. (8/9))
3/4		Schematic Diagram (D1)

CH1 (#1)

DDR2 CH1 (#0)



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Until 2007/10/25

[MP]

		DMP-BD30PP/PL DDR2_CH1_16 Section (Digital P.C.B. (8/9)) Schematic Diagram (D1)
	4/4	

11

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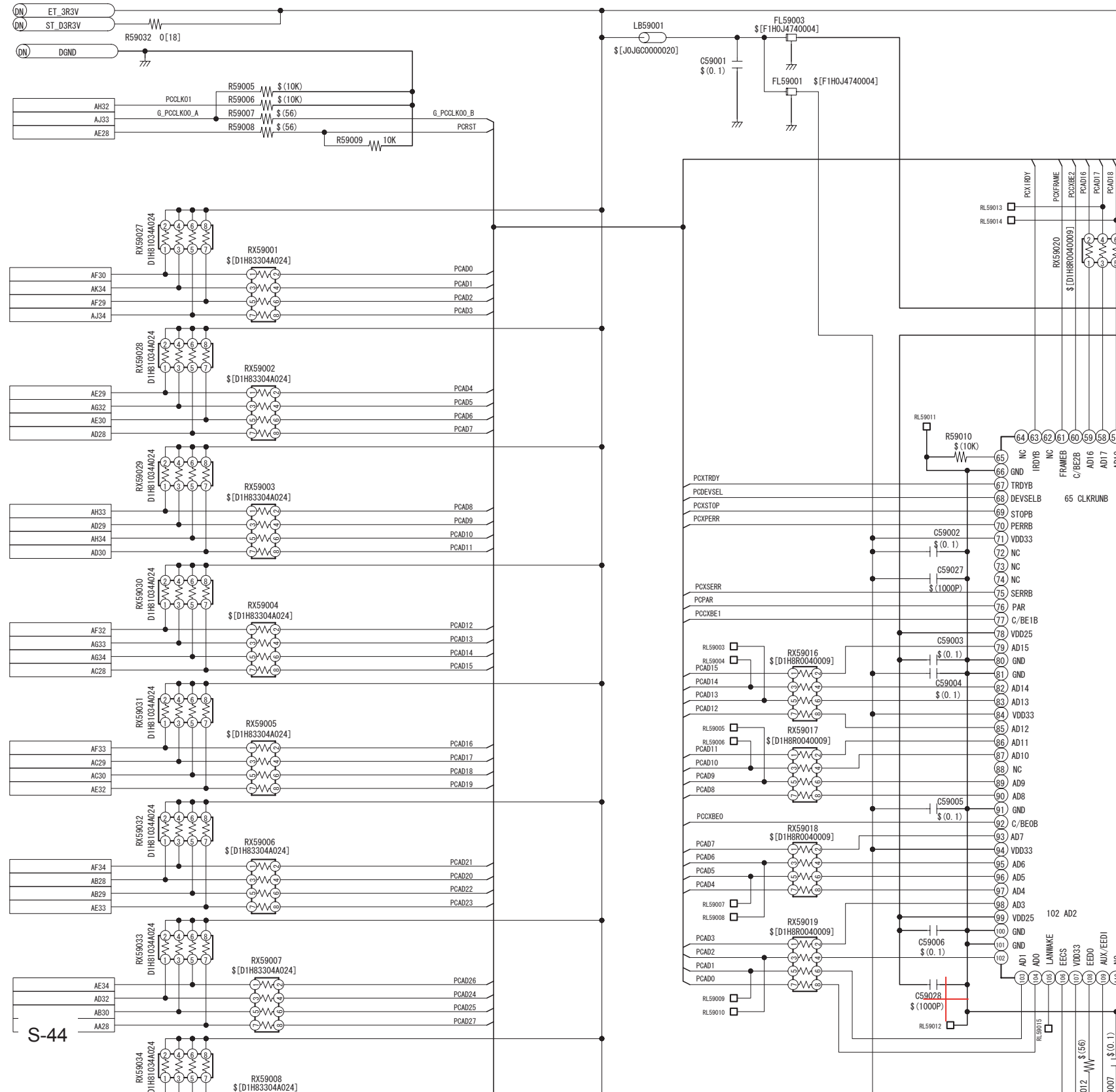
20

21



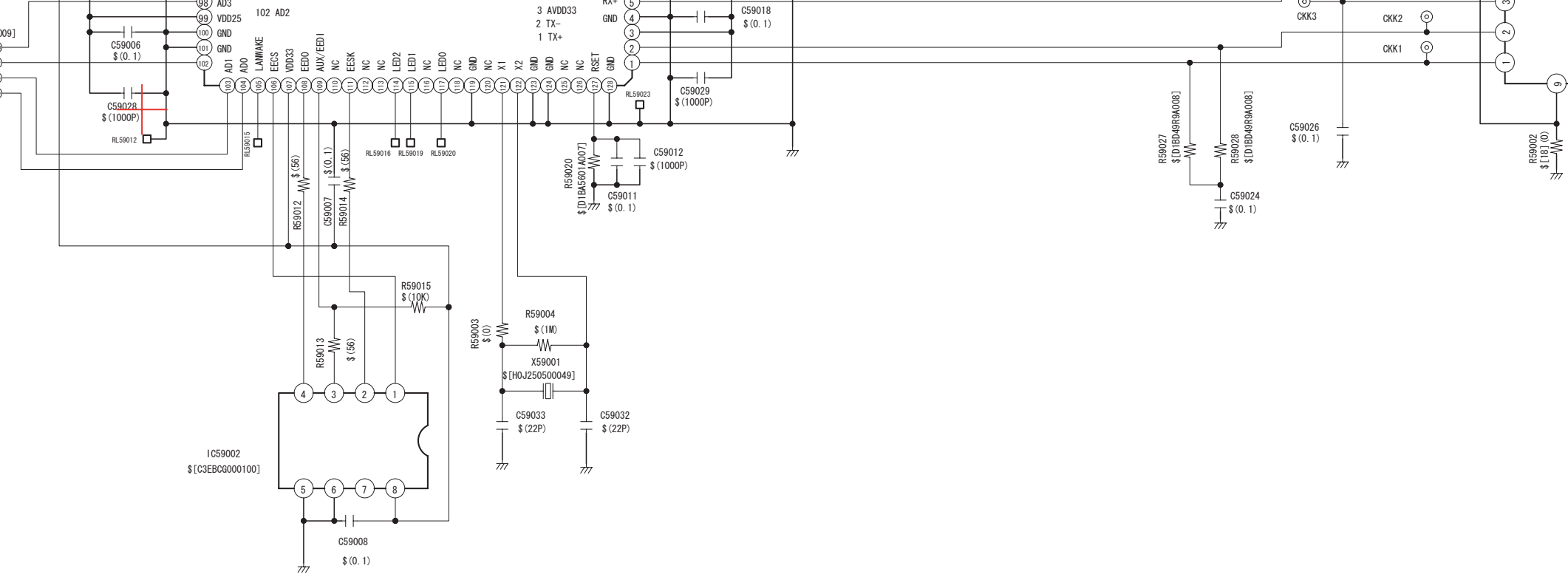
# S4.10. PRO2\_ETHER2 (ET) Schematic Diagram

1/4 DMP-BD30PP/PL  
PRO2\_ETHER2 Section  
(Digital P.C.B. (9/9))  
Schematic Diagram (ET)









[MP]

Confidential  
Until 2007/10/25

		DMP-BD30PP/PL PRO2_ETHER2 Section (Digital P.C.B. (9/9)) Schematic Diagram (ET)
	4/4	

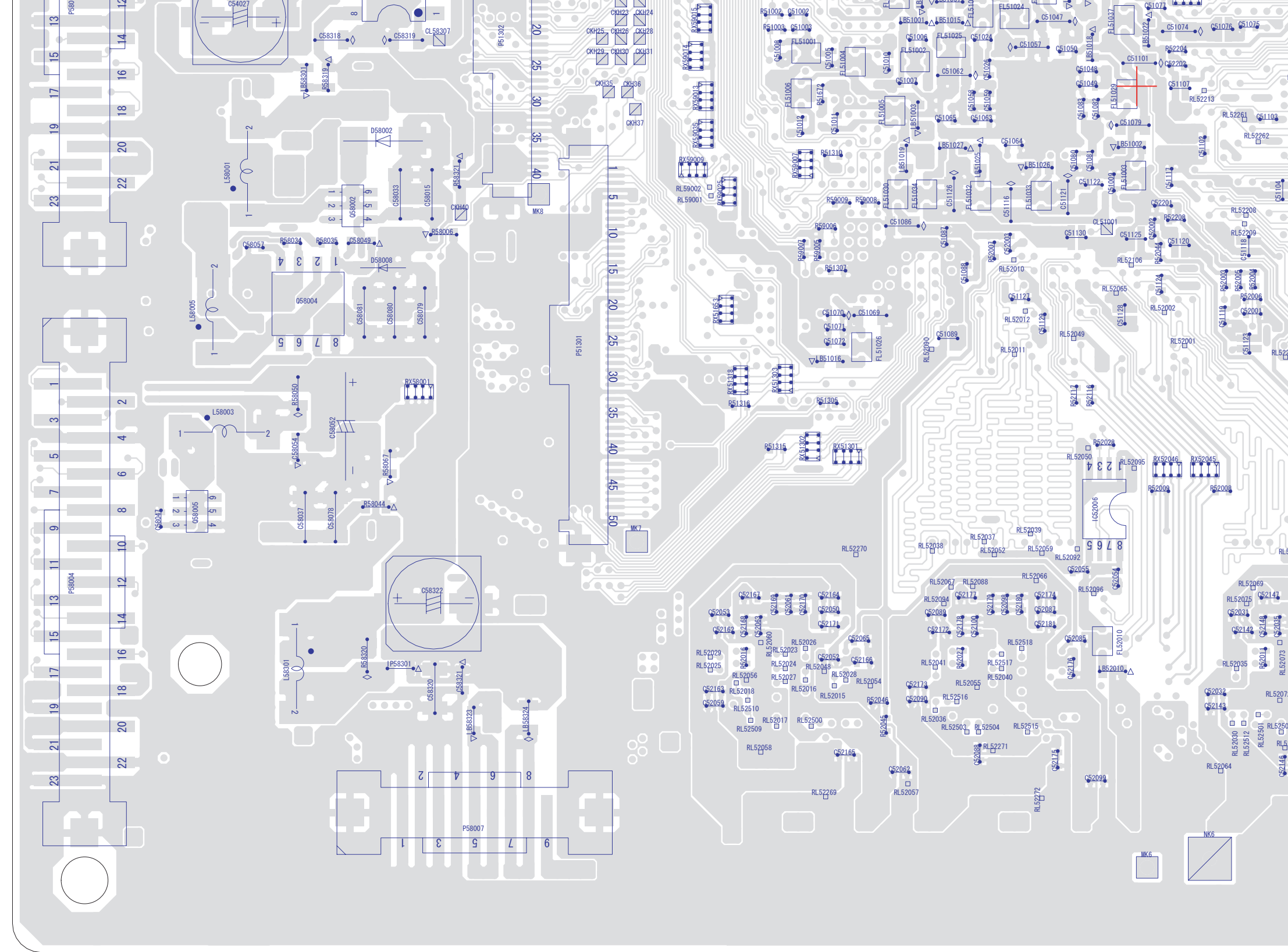




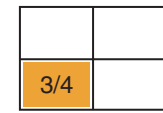




H  
G  
F  
E  
D  
C  
B  
A



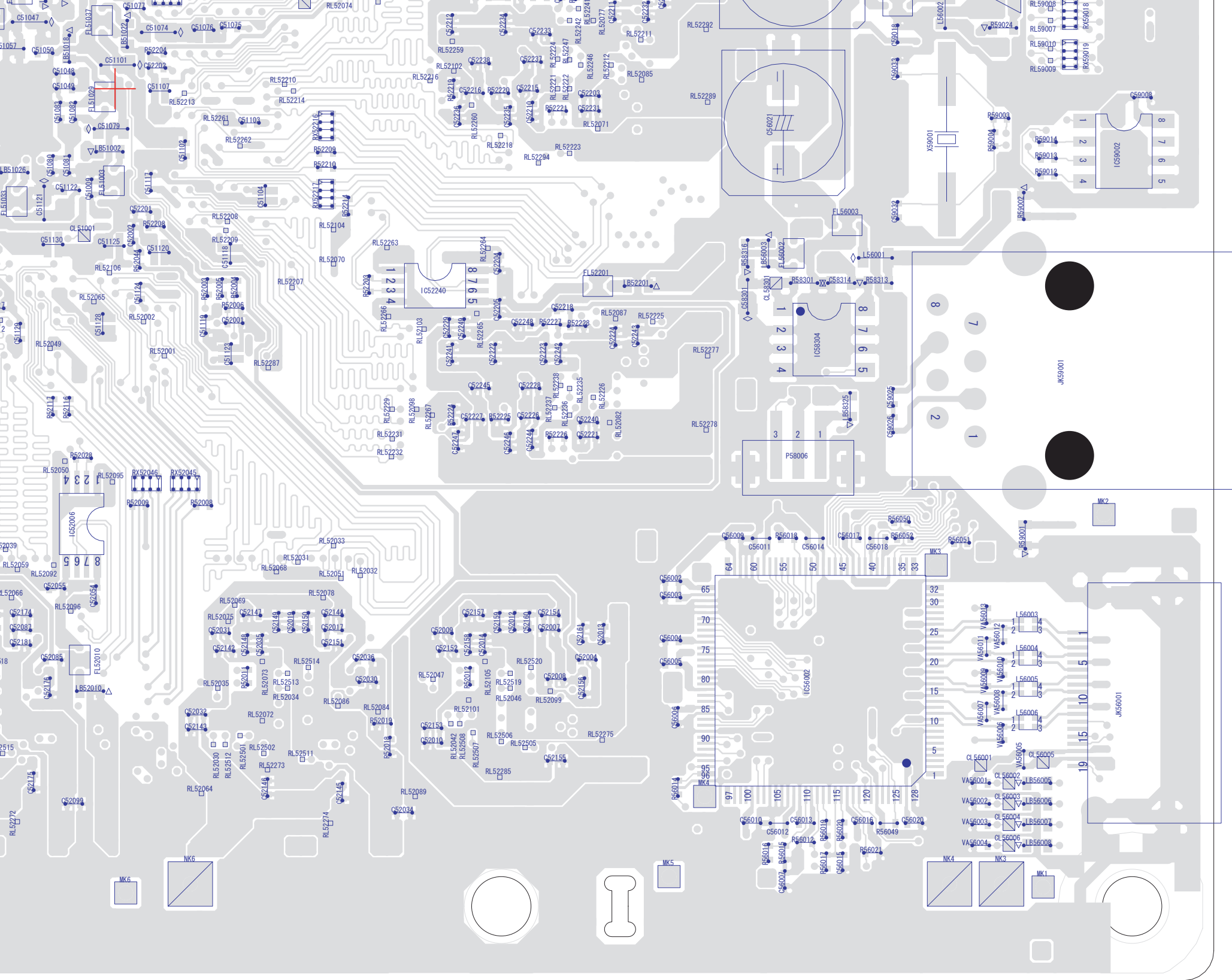
(Component Side)



DMP-BD30PP/PL  
Digital P.C.B.  
(Component Side)

1 2 3 4 5 6 7 8 9 10 11 12





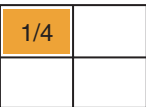
	4/4

 DMP-BD30PP/PL  
 Digital P.C.B.  
 (Component Side)

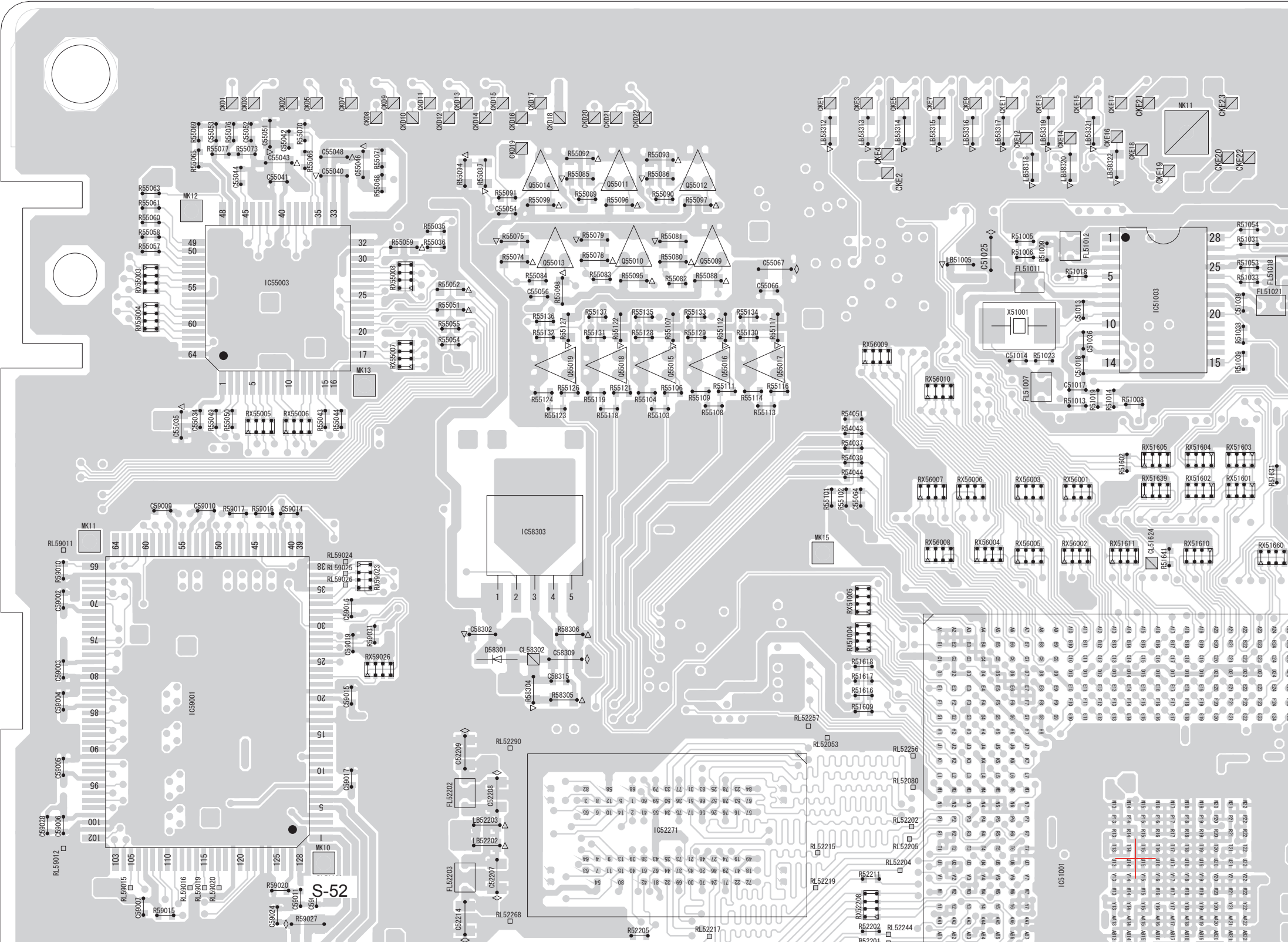


# S5.1.2. Digital P.C.B. (Foil Side)

N  
M  
L  
K  
J  
I  
H  
G



DMP-BD30PP/PL  
Digital P.C.B.  
(Foil Side)

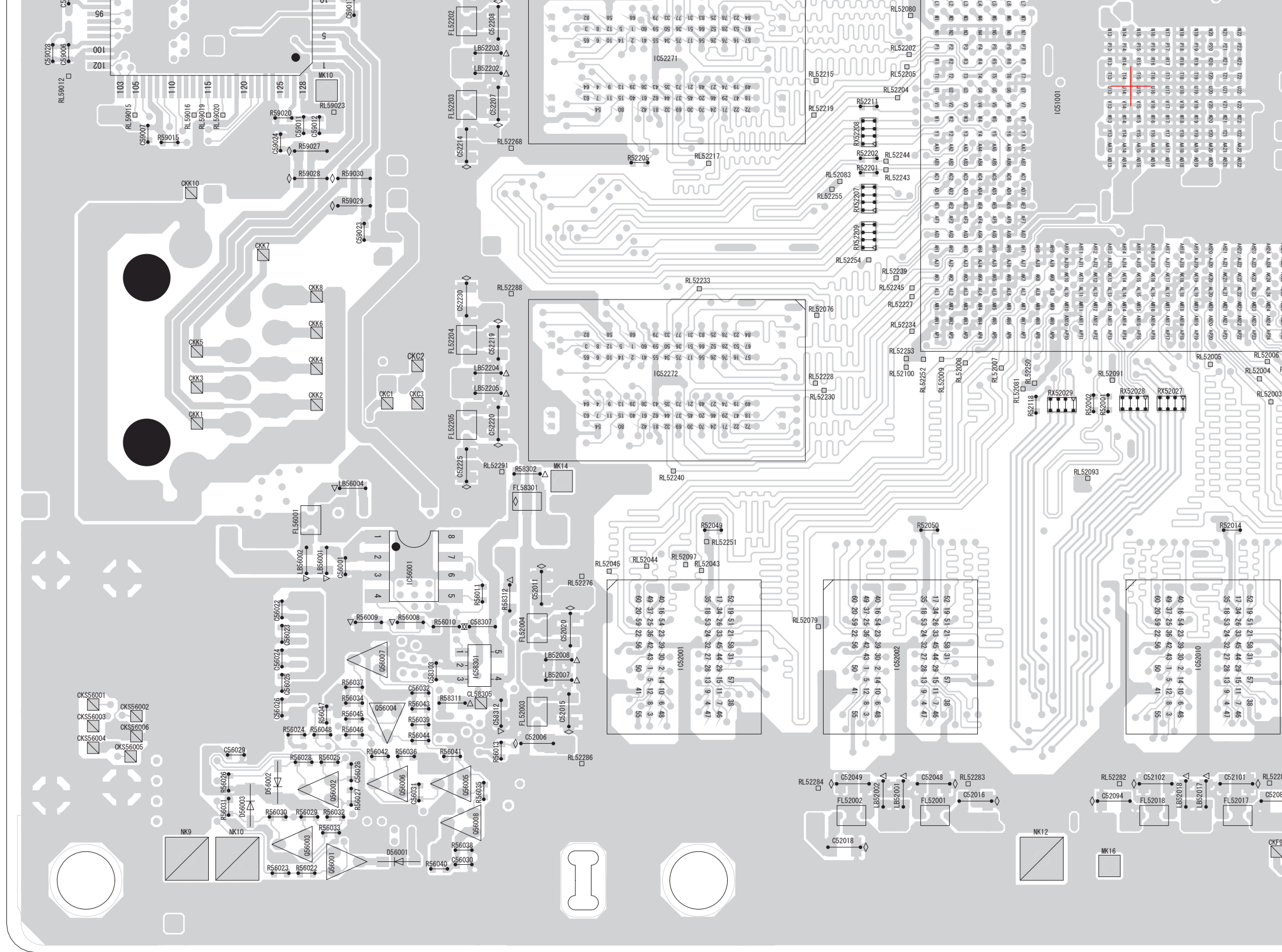




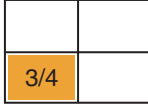




H  
G  
F  
E  
D  
C  
B  
A



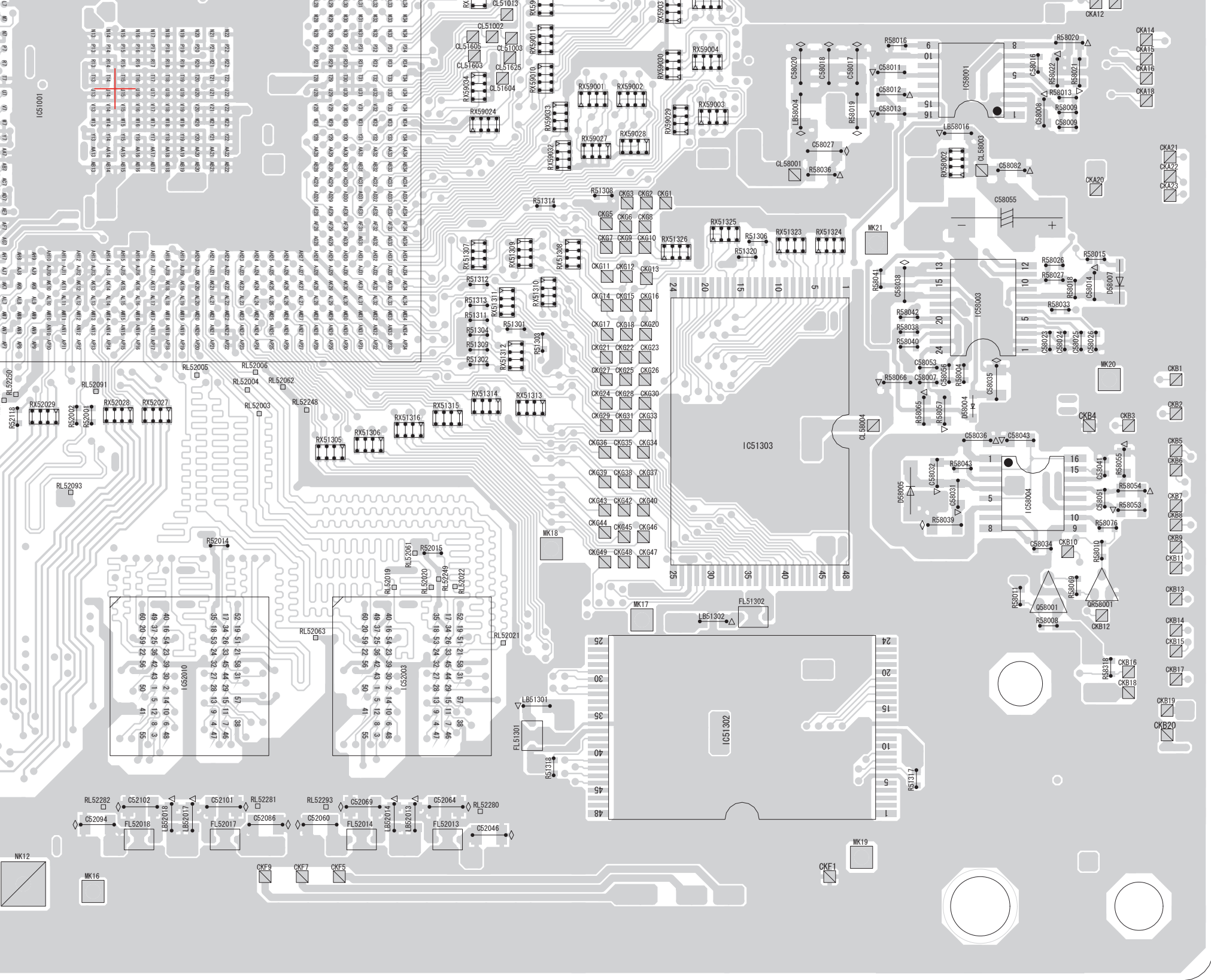
(Foil Side)



DMP-BD30PP/PL  
Digital P.C.B.  
(Foil Side)

1 2 3 4 5 6 7 8 9 10 11





	4/4

 DMP-BD30PP/PL  
 Digital P.C.B.  
 (Foil Side)

11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21



### S5.1.3. Digital P.C.B. Address Information

Integrated Circuit			Q58004			F-5			C			CKD7			M-6			F			CKG28			E-14			F			CKJ10			L-16			F			CL51622			K-10			C			RL52204			C-9			C			RL52210			H-12			C			RL52275			C-14			C			RL59025			I-6			F			LB51017			H-11			C			LB59002			I-16			C			C51007			H-9			C		
IC51001	G-11	F	Q58005	E-5	C	CKD8	M-6	F	CKG29	E-14	F	CKJ11	L-16	F	CL51623	K-10	C	RL52209	F-11	C	RL52211	H-14	C	RL52276	D-7	F	RL59026	I-6	F	LB51018	H-11	C	LB59002	I-16	C	C51008	H-9	C																																																																								
IC51002	K-11	C	Q59001	H-17	C	CKD9	M-6	F	CKG30	E-14	F	CKJ12	L-16	F	CL51624	J-11	F	RL52050	E-11	C	RL52212	H-14	C	RL52277	F-15	C				LB51019	G-9	C				C51009	G-11	C																																																																								
IC51003	K-11	F				CKD10	M-6	F	CKG31	E-14	F	CKJ13	L-16	F	CL51625	H-14	F	RL52051	D-12	C	RL52213	G-11	C	RL52278	E-15	C	Connector			LB51022	H-11	C	FL51001	H-9	C	C51010	H-9	C																																																																								
IC51005	J-13	C	Transistor-resistor			CKD11	M-6	F	CKG33	E-14	F	CKJ14	L-16	F	CL56001	C-17	C	RL52052	D-10	C	RL52214	G-12	C	RL52279	H-13	C	JK56001	C-18	C	LB51025	G-10	C	FL51002	H-10	C	C51011	G-9	C																																																																								
IC51302	C-15	F	QR51001	K-10	C	CKD12	M-6	F	CKG34	E-14	F	CKJ15	L-16	F	CL56002	C-17	C	RL52053	H-9	F	RL52215	H-9	F	RL52280	C-13	F	JK59001	F-17	C	LB51026	G-10	C	FL51003	G-11	C	C51012	G-9	C																																																																								
IC51303	E-15	F	QR51002	K-10	C	CKD13	M-7	F	CKG35	E-14	F	CKJ16	L-16	F	CL56003	C-17	C	RL52054	C-9	C	RL52216	H-13	C	RL52281	C-12	F	P51301	F-7	C	LB51027	G-10	C	FL51004	H-9	C	C51013	K-11	F																																																																								
IC51602	J-10	C	QR51003	K-10	C	CKD14	M-7	F	CKG36	E-14	F	CKJ17	L-16	F	CL56004	C-17	C	RL52055	C-10	C	RL52217	G-8	F	RL52282	C-11	F	P51302	H-7	C	LB51301	C-14	F	FL51005	G-9	C	C51014	K-10	F																																																																								
IC52001	D-8	F	QR51004	K-10	C	CKD15	M-7	F	CKG37	E-14	F	CKJ18	M-16	F	CL56005	C-17	C	RL52056	C-8	C	RL52218	G-13	C	RL52283	C-10	F	P51601	L-7	C	LB51302	D-15	F	FL51006	G-9	C	C51017	K-11	F																																																																								
IC52002	D-9	F	QR51603	L-16	F	CKD16	M-7	F	CKG38	E-14	F	CKJ21	M-16	F	CL56006	B-17	C	RL52057	C-9	C	RL52219	G-9	F	RL52284	C-9	F	P51603	M-5	C	LB51601	J-10	C	FL51007	K-10	F	C51018	K-11	F																																																																								
IC52003	D-13	F	QR54001	J-15	F	CKD17	M-7	F	CKG39	E-14	F	CKJ23	L-16	F	CL58001	G-15	F	RL52058	C-8	C	RL52220	H-13	C	RL52285	C-13	C	P58002	M-15	C	LB52001	C-9	F	FL51009	H-10	C	C51022	I-10	C																																																																								
IC52006	E-11	C	QR54002	J-15	F	CKD18	M-7	F	CKG40	E-14	F	CKJ25	M-17	F	CL58003	G-17	F	RL52059	D-10	C	RL52221	H-14	C	RL52286	C-7	F	P58003	M-11	C	LB52002	C-9	F	FL51011	K-10	F	C51023	I-10	C																																																																								
IC52010	D-11	F	QR54003	I-6	C	CKD19	L-7	F	CKG42	E-14	F	CKJ27	L-17	F	CL58004	E-16	F	RL52060	D-8	C	RL52222	H-14	C	RL52287	F-12	C	P58004	D-4	C	LB52007	C-7	F	FL51012	L-11	F	C51024	H-10	C																																																																								
IC52240	F-13	C	QR54004	I-5	C	CKD20	M-7	F	CKG43	E-14	F	CKJ28	M-17	F	CL58301	F-15	C	RL52061	D-13	F	RL52223	G-14	C	RL52288	F-7	F	P58005	H-4	C	LB52008	D-7	F	FL51014	H-9	C	C51025	L-10	F																																																																								
IC52271	H-8	F	QR54005	I-6	C	CKD21	M-8	F	CKG44	E-14	F	CKJ29	M-17	F	CL58302	I-7	F	RL52062	E-12	F	RL52224	H-14	C	RL52289	G-15	C	P58006	E-15	C	LB52010	C-11	C	FL51018	L-12	F	C51026	H-10	C																																																																								
IC52272	E-8	F	QR58001	D-17	F	CKD22	M-8	F	CKG45	D-14	F	CKJ31	M-17	F	CL58303	J-16	C	RL52063	D-12	F	RL52225	F-14	C	RL52290	H-7	F	P58007	B-7	C	LB52013	C-13	F	FL51021	K-12	F	C51027	I-9	C																																																																								
IC54001	J-15	F				CKE1	M-9	F	CKG46	D-14	F	CKJ33	M-17	F	CL58304	J-14	C	RL52064	C-12	C	RL52226	E-14	C	RL52291	E-7	F				LB52014	C-13	F	FL51022	H-11	C	C51028	I-9	C																																																																								
IC54002	K-15	F	Test Point			CKE2	L-9	F	CKG47	D-14	F	CKJ35	L-17	F	CL58305	C-7	F	RL52065	F-11	C	RL52227	F-10	F	RL52292	H-15	C	Diode			LB52017	C-12	F	FL51023	H-10	C	C51030	I-9	C																																																																								
IC54012	L-14	F	CKA1	J-18	F	CKE3	M-9	F	CKG48	D-14	F	CKJ36	M-17	F	CL58306	I-16	C	RL52066	D-10	C	RL52228	E-9	F	RL52293	C-12	F	D54001	J-16	F	LB52018	C-11	F	FL51024	H-10	C	C51036	K-11	F																																																																								
IC54021	K-5	C	CKA2	I-18	F	CKE4	L-9	F	CKG49	D-14	F	CKJ37	L-17	F	CL58307	H-6	C	RL52067	D-10	C	RL52229	E-13	C	RL52294	G-14	C	D54002	J-16	F	LB52201	F-14	C	FL51025	H-10	C	C51039	K-12	F																																																																								
IC54022	I-16	F	CKA3	I-18	F	CKE5	M-9	F	CKH1	I-7	C	CKJ38	M-17	F	RL52001	F-11	C	RL52068	D-12	C	RL52230	E-9	F	RL52500	C-9	C	D54003	I-5	C	LB52202	H-7	F	FL51026	F-9	C	C51040	I-12	C																																																																								
IC54023	J-7	C	CKA4	I-18	F	CKE7	M-10	F	CKH2	I-8	C	CKJ39	M-17	F	RL52002	F-11	C	RL52069	D-12	C	RL52231	E-13	C	RL52501	C-12	C	D54004	I-5	C	LB52203	H-7	F	FL51027	H-11	C	C51041	H-12	C																																																																								
IC54024	K-17	F	CKA5	I-18	F	CKE9	M-10	F	CKH3	I-7	C	CKJ40	L-17	F	RL52003	E-12	F	RL52070	F-12	C	RL52232	E-13	C	RL52502	C-12	C	D56001	B-6	F	LB52204	F-7	F	FL51028	J-13	C	C51042	H-11	C																																																																								
IC54025	I-17	F	CKA6	I-18	F	CKE11	M-10	F	CKH4	I-8	C	CKK1	E-5	F	RL52004	E-12	F	RL52071	G-14	C	RL52233	F-8	F	RL52503	C-10	C	D56002	C-5	F	LB52205	E-7	F	FL51029	G-11	C	C51043	I-12	C																																																																								
IC54026	K-17	F	CKA7	H-18	F	CKE12	M-10	F	CKH5	I-7	C	CKK2	E-6	F	RL52005	F-12	F	RL52072	C-12	C	RL52234	F-10	F	RL52504	C-10	C	D56003	C-5	F	LB55008	J-14	C	FL51030	G-9	C	C51047	H-10	C																																																																								
IC54027	J-17	F	CKA8	H-17	F	CKE13	M-10	F	CKH6	I-8	C	CKK3	E-5	F	RL52006	F-12	F	RL52073	D-12	C	RL52235	E-14	C	RL52505	C-14	C	D58002	G-6	C	LB55009	J-16	C	FL51032	G-10	C	C51048	H-11	C																																																																								
IC55002	K-17	C	CKA9	H-18	F	CKE14	L-11	F	CKH7	I-7	C	CKK4	F-6	F	RL52007	F-10	F	RL52074	H-12	C	RL52236	E-14	C	RL52506	C-14	C	D58004	E-17	F	LB55010	K-16	C	FL51033	G-10	C	C51049	H-11	C																																																																								
IC55003	K-5	F	CKA10	H-18	F	CKE15	M-11	F	CKH8	I-8	C	CKK5	F-5	F	RL52008	F-10	F	RL52075	D-12	C	RL52237	E-14	C	RL52507	C-13	C	D58005	E-16	F	LB55011	K-15	C	FL51034	G-10	C	C51050	H-11	C																																																																								
IC56001	D-6	F	CKA11	H-17	F	CKE16	L-11	F	CKH9	I-7	C	CKK6	F-6	F	RL52009	F-10	F	RL52076	F-9	F	RL52238	F-14	C	RL52508	C-13	C	D58007	F-18	F	LB55012	K-14	C	FL51037	H-11	C	C51057	H-10	C																																																																								
IC56002	D-16	C	CKA12	H-17	F	CKE17	M-11	F	CKH11	I-8	C	CKK7	F-5	F	RL52010	F-10	C	RL52077	H-14	C	RL52239	F-9	F	RL52509	C-8	C	D58008	F-6	C	LB55013	L-13	C	FL51301	C-14	F	C51058	G-10	C																																																																								
IC58001	H-17	F	CKA14	H-18	F	CKE18	L-11	F	CKH13	H-7	C	CKK8	F-6	F	RL52011	F-10	C	RL52078	D-12	C	RL52240	E-8	F	RL52510	C-8	C	D58301	I-7	F	LB55014	L-13	C	FL51302	D-15	F	C51059	G-10	C																																																																								
IC58003	F-17	F	CKA15	H-18	F	CKE19	L-11	F	CKH14	H-7	C	CKK10	G-5	F	RL52012	F-10	C	RL52079	D-9	F	RL52241	H-14	C	RL52511	C-12	C				LB56001	D-6	F	FL51601	J-10	C	C51062	H-10	C																																																																								
IC58004	E-17	F	CKA16	H-18	F	CKE20	L-12	F	CKH15	H-8	C	CKS56001	C-4	F	RL52015	C-9	C	RL52080	H-10	F	RL52242	H-14	C	RL52512	C-12	C	IC Protector			LB56002	D-5	F	FL52001	B-10	F	C51063	G-10	C																																																																								
IC58301	C-7	F	CKA18	G-18	F	CKE21	M-11	F	CKH16	H-8	C	CKS56002	C-4	F	RL52016	C-9	C	RL52081	E-10	F	RL52243	G-9	F	RL52513	D-12	C	IP58301	C-6	C	LB56003	F-15	C	FL52002	B-9	F	C51064	G-10	C																																																																								
IC58302	J-14	C	CKA20	G-17	F	CKE22	L-12	F	CKH17	H-8	C	CKS56003	C-4	F	RL52017	C-9	C	RL52082	E-14	C	RL52244	G-9	F	RL52514	D-12	C				LB56004	E-6	F	FL52003	C-7	F	C51065	G-10	C																																																																								
IC58303	J-7	F	CKA21	G-18	F	CKE23	M-12	F	CKH18	H-8	C	CKS56004	C-4	F	RL52018	C-8	C	RL52083	G-9	F	RL52245	F-10	F	RL52515	C-10	C	Crystal Oscillator			LB56005	C-17	C																																																																														



Digital P.C.B. (2/3)

C51121	G-11	C	C52100	D-10	C	C52224	F-14	C	C54042	K-18	F	C56012	C-15	C	C58306	J-15	C	R51038	K-12	F	R51674	J-12	F	R54013	I-13	C	R54079	H-17	F	R55073	L-5	F	R56008	D-6	F	R58039	E-16	F
C51122	G-11	C	C52101	C-12	F	C52225	E-7	F	C54043	I-18	F	C56013	C-15	C	C58307	D-7	F	R51039	K-12	F	R51675	H-10	C	R54014	I-13	C	R54080	J-16	F	R55074	L-7	F	R56009	D-6	F	R58040	F-16	F
C51123	F-12	C	C52102	C-11	F	C52226	E-14	C	C54044	K-17	F	C56014	D-16	C	C58308	J-14	C	R51045	J-12	C	R51676	I-10	C	R54015	I-13	C	R54081	J-17	F	R55075	L-7	F	R56010	D-6	F	R58041	F-16	F
C51124	F-11	C	C52142	D-12	C	C52227	E-13	C	C54045	J-17	F	C56015	B-16	C	C58309	I-7	F	R51046	J-12	C	R51678	L-16	F	R54016	I-13	C	R54082	I-17	F	R55076	L-5	F	R56011	D-7	F	R58042	F-16	F
C51125	F-11	C	C52143	C-12	C	C52228	E-14	C	C54046	I-17	F	C56016	C-16	C	C58310	J-16	C	R51050	I-10	C	R51690	I-10	C	R54017	L-14	F	R54083	L-17	F	R55077	L-5	F	R56012	B-15	C	R58043	E-16	F
C51126	G-10	C	C52144	D-12	C	C52229	F-13	C	C54047	H-17	F	C56017	D-16	C	C58311	I-15	C	R51053	L-12	F	R51691	H-8	C	R54018	L-14	F	R54084	J-17	F	R55078	L-7	F	R56013	C-7	F	R58044	E-6	C
C51127	F-10	C	C52145	C-12	C	C52230	F-7	F	C54048	L-4	C	C56018	D-16	C	C58312	C-7	F	R51054	L-12	F	R51692	H-14	C	R54019	L-15	F	R54085	K-16	F	R55079	L-7	F	R56014	C-15	C	R58050	E-5	C
C51128	F-11	C	C52146	C-12	C	C52231	G-14	C	C54049	K-5	C	C56020	C-16	C	C58313	J-14	C	R51301	F-14	F	R51693	H-14	C	R54020	K-14	F	R54086	J-16	F	R55080	L-8	F	R56015	B-15	C	R58053	E-18	F
C51129	F-10	C	C52147	D-12	C	C52232	H-14	C	C54050	K-4	C	C56021	G-15	C	C58314	F-16	C	R51302	F-13	F	R52001	E-11	F	R54021	I-14	C	R54087	K-18	F	R55081	L-8	F	R56016	B-15	C	R58054	E-18	F
C51130	F-11	C	C52148	D-12	C	C52233	H-14	C	C54051	L-5	C	C56022	D-5	F	C58315	I-7	F	R51303	F-14	F	R52002	E-11	F	R54022	I-12	C	R54088	J-18	F	R55082	K-8	F	R56017	B-16	C	R58055	E-18	F
C51601	L-15	F	C52149	D-12	C	C52234	H-14	C	C54052	L-16	F	C56023	D-5	F	C58316	I-15	C	R51304	F-13	F	R52003	F-12	C	R54023	K-15	F	R54089	K-16	F	R55083	K-7	F	R56018	D-15	C	R58057	E-16	F
C51602	K-10	C	C52150	D-12	C	C52235	G-14	C	C54053	J-16	F	C56024	D-5	F	C58317	H-7	C	R51305	E-9	C	R52004	F-12	C	R54024	K-14	F	R54090	J-17	F	R55084	K-7	F	R56019	C-16	C	R58065	E-16	F
C51603	I-10	C	C52151	D-12	C	C52236	G-13	C	C54054	K-18	F	C56025	C-5	F	C58318	H-6	C	R51306	F-15	F	R52005	F-12	C	R54025	K-15	F	R54091	K-18	F	R55085	L-7	F	R56020	C-16	C	R58066	F-16	F
C51604	I-10	C	C52152	D-13	C	C52237	H-14	C	C54055	J-18	F	C56026	C-5	F	C58319	H-6	C	R51307	F-9	C	R52006	F-12	C	R54026	I-13	C	R54092	K-16	F	R55086	L-8	F	R56021	B-16	C	R58067	E-6	C
C51605	L-17	F	C52153	C-13	C	C52238	H-13	C	C54056	L-18	F	C56027	H-15	C	C58320	C-6	C	R51308	G-14	F	R52007	F-10	C	R54027	I-13	C	R54093	I-18	F	R55087	L-7	F	R56022	B-6	F	R58069	D-17	F
C51610	J-10	C	C52154	D-14	C	C52239	H-13	C	C54057	K-17	F	C56028	C-6	F	C58321	C-7	C	R51309	F-13	F	R52008	E-12	C	R54028	K-15	F	R54094	J-16	F	R55088	K-8	F	R56023	B-5	F	R58076	E-17	F
C52001	F-12	C	C52155	C-14	C	C52240	E-14	C	C54058	J-18	F	C56029	C-5	F	C58322	D-6	C	R51310	G-9	C	R52009	E-11	C	R54029	I-13	C	R54095	K-18	F	R55089	L-7	F	R56024	C-5	F	R58071	F-15	C
C52002	G-11	C	C52156	C-14	C	C52241	F-13	C	C54059	I-17	F	C56030	B-7	F	C59001	I-17	C	R51311	F-13	F	R52011	D-12	C	R54030	I-13	C	R54096	I-17	F	R55090	L-8	F	R56025	C-6	F	R58302	E-7	F
C52003	F-10	C	C52157	D-13	C	C52242	F-14	C	C54060	I-6	C	C56031	C-6	F	C59002	I-4	F	R51312	F-13	F	R52012	D-13	C	R54031	I-13	C	R54097	K-17	F	R55091	L-7	F	R56026	C-5	F	R58303	I-14	C
C52004	D-14	C	C52158	D-13	C	C52243	F-14	C	C55030	K-16	C	C56032	C-6	F	C59003	I-4	F	R51313	F-13	F	R52014	D-12	F	R54032	I-13	C	R54098	I-17	F	R55092	L-7	F	R56027	C-6	F	R58304	I-7	F
C52006	C-7	F	C52159	D-13	C	C52244	E-14	C	C55031	K-15	C	C58007	F-16	F	C59004	I-4	F	R51314	G-14	F	R52015	D-13	F	R54033	I-13	C	R54099	I-17	F	R55093	L-8	F	R56028	C-5	F	R58305	I-7	F
C52007	D-14	C	C52160	D-14	C	C52245	E-13	C	C55032	K-15	C	C58008	G-17	F	C59005	H-4	F	R51315	E-9	C	R52016	D-8	C	R54034	I-13	C	R54100	J-16	F	R55094	L-7	F	R56029	B-6	F	R58306	I-7	F
C52008	D-14	C	C52161	D-14	C	C52246	E-14	C	C55033	K-17	C	C58009	G-17	F	C59006	H-4	F	R51316	E-8	C	R52018	C-13	C	R54035	I-13	C	R54101	J-14	F	R55095	K-8	F	R56030	B-5	F	R58307	J-16	C
C52009	D-13	C	C52162	D-8	C	C52247	E-13	C	C55034	K-5	F	C58011	H-16	F	C59007	G-4	F	R51317	C-16	F	R52019	C-13	C	R54036	I-13	C	R54102	K-17	F	R55096	L-8	F	R56031	C-5	F	R58308	J-16	C
C52010	C-13	C	C52163	C-8	C	C52248	F-14	C	C55035	J-5	F	C58012	G-16	F	C59008	G-18	C	R51318	C-14	F	R52027	D-10	C	R54037	J-9	F	R54103	K-17	F	R55097	L-8	F	R56032	B-6	F	R58309	J-16	C
C52011	D-7	F	C52164	D-9	C	C52249	F-13	C	C55036	K-17	C	C58013	G-16	F	C59009	J-5	F	R51320	F-15	F	R52028	E-11	C	R54038	I-12	C	R54104	K-15	F	R55098	K-7	F	R56033	B-6	F	R58310	I-15	C
C52012	D-14	C	C52165	C-9	C	C54001	I-15	F	C55037	K-17	C	C58014	F-17	F	C59010	J-5	F	R51321	J-8	C	R52044	F-11	C	R54039	J-9	F	R54105	K-15	F	R55099	L-7	F	R56034	C-6	F	R58311	C-6	F
C52013	D-14	C	C52166	D-9	C	C54002	J-15	F	C55038	K-17	C	C58015	G-6	C	C59011	G-5	F	R51322	J-8	C	R52045	C-9	C	R54040	I-12	C	R54106	J-7	C	R55100	H-11	C	R56035	C-7	F	R58312	D-7	F
C52014	D-13	C	C52167	D-8	C	C54003	J-15	F	C55039	K-17	C	C58016	H-17	F	C59012	G-6	F	R51323	K-8	C	R52046	C-9	C	R54041	I-12	C	R54107	J-7	C	R55101	J-9	F	R56036	C-6	F	R58313	F-16	C
C52015	C-7	F	C52168	D-8	C	C54004	J-8	C	C55040	L-6	F	C58017	H-16	F	C59013	I-16	C	R51601	I-10	C	R52049	D-8	F	R54042	J-12	C	R55035	L-6	F	R55102	J-9	F	R56037	C-6	F	R58314	J-14	C
C52016	C-10	F	C52169	D-9	C	C54005	J-6	C	C55041	L-5	F	C58018	H-16	F	C59014	J-5	F	R51602	J-11	F	R52050	D-10	F	R54043	J-9	F	R55036	L-6	F	R55103	K-8	F	R56038	B-7	F	R58315	J-16	C
C52017	D-12	C	C52170	D-9	C	C54006	K-7	C	C55042	L-5	F	C58020	H-15	F	C59015	I-6	F	R51604	I-10	C	R52116	E-11	C	R54044	J-9	F	R55037	J-14	C	R55104	K-8	F	R56039	C-6	F	R58316	F-15	C
C52018	B-9	F	C52171	D-9	C	C54007	J-14	F	C55043	L-5	F	C58023	F-17	F	C59016	I-6	F	R51605	J-10	C	R52117	E-11	C	R54045	J-15	F	R55038	J-14	C	R55106	K-8	F	R56040	B-6	F	R58317	I-16	C
C52019	D-12	C	C52172	D-10	C	C54008	J-15	F	C55044	L-5	F	C58024	F-17	F	C59017	H-6	F	R51606	I-10	C	R52118	E-10	F	R54046	J-15	F	R55039	J-17	C	R55107	K-8	F	R56041	C-6	F	R58318	D-17	F
C52020	D-7	F	C52173	C-10	C	C54009	K-14	F	C55045	L-6	C	C58025	F-17	F	C59018	H-16	C	R51608	I-10	C	R52201	G-9	F	R54047	I-15	F	R55040	J-17	C	R55108	K-8	F	R56042	C-6	F	R58319	H-6	C
C52030	D-13	C	C52174	D-10	C	C54010	K-15	F	C55046	L-6	F	C58026	F-17	F	C59019	I-6	F	R51609	I-9	F	R52202	G-9	F	R54048	I-12	C	R55041	K-17	C	R55109	K-8	F	R56043	C-6	F	R58320	D-6	C
C52031	D-12	C	C52175	C-10	C	C54011	K-7	C	C55047	L-16	C	C58027	G-16	F	C59020	H-16	C	R51610	H-10	C	R52203	F-13	C	R54049	J-12	C	R55042	K-16	C	R55111	K-8	F	R56044	C-6	F	R58321	G-6	C
C52032	C-12	C	C52176	C-11	C	C54012	L-14	F	C55048	L-6	F	C58031	E-16	F	C59021	H-17	C	R51613	K-10	C	R52204	H-11	C	R54050	J-15	F	R55043	K-6	F	R55112	K-8	F	R56045	C-6	F	R58322	I-7	C
C52034	C-13	C	C52177	D-10	C	C54013	L-15	F	C55049	L-16	C	C58032	E-16	F	C59022	I-17	C	R51616	I-9	F	R52205	G-8	F	R54051	K-9	F	R55044	K-6	F	R55113	K-9	F	R56046	C-6	F	R58323	I-4	C
C52035	D-12	C	C52178	D-10	C	C54014	L-15	F	C55051	L-5	F	C58033	G-6	C	C59023	F-6	F	R51617	I-9	F	R52208	G-11	C	R54052	J-15	F	R55045	K-16	C	R55114	K-8	F	R56047	C-6	F	R59001	D-17	C
C52036	D-13	C	C52179	D-10	C	C54015	K-14	F	C55052	L-5	F	C58034	D-17	F	C59024	G-5	F	R51618	I-9	F	R52209	G-12	C	R54053	J-16	F	R550											



Digital P.C.B. (3/3)								
RX51004	I-9	F	RX51652	H-9	C	RX59028	G-14	F
RX51005	I-9	F	RX51653	F-8	C	RX59029	G-15	F
RX51006	I-12	C	RX51654	H-13	F	RX59030	H-15	F
RX51007	I-12	C	RX51660	J-12	F	RX59031	H-15	F
RX51008	I-12	C	RX51661	J-10	C	RX59032	G-14	F
RX51009	I-12	C	RX51662	J-10	C	RX59033	G-14	F
RX51301	E-9	C	RX51663	H-11	C	RX59034	H-13	F
RX51302	E-9	C	RX52027	E-11	F	RX59035	G-8	C
RX51303	E-9	C	RX52028	E-11	F			
RX51304	J-13	F	RX52029	E-11	F			
RX51305	E-12	F	RX52045	E-11	C	VA56001	C-17	C
RX51306	E-13	F	RX52046	E-11	C	VA56002	C-17	C
RX51307	F-13	F	RX52207	G-9	F	VA56003	C-17	C
RX51308	F-14	F	RX52208	G-9	F	VA56004	B-17	C
RX51309	F-14	F	RX52209	F-9	F	VA56005	C-17	C
RX51310	F-14	F	RX52216	G-12	C	VA56006	C-17	C
RX51311	F-14	F	RX52217	G-12	C	VA56007	C-17	C
RX51312	F-14	F	RX55001	L-17	C	VA56008	C-17	C
RX51313	E-14	F	RX55002	K-17	C	VA56009	D-17	C
RX51314	E-13	F	RX55003	K-4	F	VA56010	D-17	C
RX51315	E-13	F	RX55004	K-4	F	VA56011	D-17	C
RX51316	E-13	F	RX55005	J-5	F	VA56012	D-17	C
RX51317	K-12	F	RX55006	J-5	F	VA56013	D-17	C
RX51318	E-8	C	RX55007	K-6	F			
RX51319	K-13	F	RX55008	K-6	F			
RX51320	H-13	C	RX56001	J-11	F			
RX51321	J-8	C	RX56002	J-11	F			
RX51322	H-12	C	RX56003	J-10	F			
RX51323	F-15	F	RX56004	J-10	F			
RX51324	F-16	F	RX56005	J-10	F			
RX51325	G-15	F	RX56006	J-10	F			
RX51326	F-15	F	RX56007	J-10	F			
RX51327	J-9	C	RX56008	J-10	F			
RX51601	J-12	F	RX56009	K-9	F			
RX51602	J-11	F	RX56010	K-10	F			
RX51603	J-12	F	RX58001	E-6	C			
RX51604	J-11	F	RX58002	G-16	F			
RX51605	J-11	F	RX58003	I-5	C			
RX51606	I-10	C	RX58004	H-4	C			
RX51607	K-11	C	RX59001	G-14	F			
RX51608	H-10	C	RX59002	G-14	F			
RX51609	K-11	C	RX59003	G-15	F			
RX51610	J-11	F	RX59004	H-15	F			
RX51611	J-11	F	RX59005	H-15	F			
RX51613	I-14	F	RX59006	I-9	C			
RX51614	I-13	F	RX59007	G-9	C			
RX51615	J-13	F	RX59008	I-9	C			
RX51616	I-13	F	RX59009	G-8	C			
RX51617	I-13	F	RX59010	H-14	F			
RX51618	I-14	F	RX59011	H-14	F			
RX51619	L-17	F	RX59012	H-14	F			
RX51620	L-16	F	RX59013	G-8	C			
RX51621	M-16	F	RX59014	H-8	C			
RX51622	M-16	F	RX59015	H-8	C			
RX51623	M-16	F	RX59016	I-17	C			
RX51624	M-15	F	RX59017	H-17	C			
RX51625	L-17	F	RX59018	H-17	C			
RX51639	J-11	F	RX59019	H-17	C			
RX51640	J-10	C	RX59020	J-17	C			
RX51641	H-10	C	RX59021	J-17	C			
RX51642	L-7	C	RX59022	J-16	C			
RX51643	H-11	C	RX59023	I-6	F			
RX51646	I-10	C	RX59024	G-13	F			
RX51647	I-11	C	RX59025	G-8	C			
RX51650	H-13	F	RX59026	I-6	F			
RX51651	H-9	C	RX59027	G-14	F			

Address Information  
C.....Component Side  
F.....Foil Side

## S6. Abbreviation

INITIAL/LOGO	ABBREVIATIONS
A	A0~UP ADDRESS ACLK AUDIO CLOCK AD0~UP ADDRESS BUS ADATA AUDIO PES PACKET DATA ALE ADDRESS LATCH ENABLE AMUTE AUDIO MUTE AREQ AUDIO PES PACKET REQUEST ARF AUDIO RF ASI SERVO AMP INVERTED INPUT ASO SERVO AMP OUTPUT ASYNC AUDIO WORD DISTINCTION SYNC
B	BCK BIT CLOCK (PCM) BCKIN BIT CLOCK INPUT BDO BLACK DROP OUT BLKCK SUB CODE BLOCK CLOCK BOTTOM CAP. FOR BOTTOM HOLD BYP BYPATH BYTCK BYTE CLOCK
C	CAV CONSTANT ANGULAR VELOCITY CBDO CAP. BLACK DROP OUT CD COMPACT DISC CDSCK CD SERIAL DATA CLOCK CDSRDATA CD SERIAL DATA CDRF CD RF (EFM) SIGNAL CDV COMPACT DISC-VIDEO CHNDATA CHANNEL DATA CKSL SYSTEM CLOCK SELECT CLV CONSTANT LINEAR VELOCITY COFTR CAP. OFF TRACK CPA CPU ADDRESS CPCS CPU CHIP SELECT CPDT CPU DATA CPH1~3 CLOCK PULSE SOURCE DRIVE CPUADR CPU ADDRESS LATCH CPUADT CPU ADDRESS DATA BUS CPUIRQ CPU INTERRUPT REQUEST CPRD CPU READ ENABLE CPV GATE DRIVER CLOCK PULSE CPWR CPU WRITE ENABLE CS CHIP SELECT CSYNCIN COMPOSITE SYNC IN CSYNCOUT COMPOSITE SYNC OUT
D	DACCK D/A CONVERTER CLOCK DEEMP DEEMPHASIS BIT ON/OFF DEMPH DEEMPHASIS SWITCHING DIG0~UP FL DIGIT OUTPUT DIN DATA INPUT DMSRCK DM SERIAL DATA READ CLOCK DMUTE DIGITAL MUTE CONTROL

INITIAL/LOGO	ABBREVIATIONS	
	DO DOUT0~UP DRF DRPOUT DREQ DRESP DSC DSLF DVD	DROP OUT DATA OUTPUT DATA SLICE RF (BIAS) DROP OUT SIGNAL DATA REQUEST DATA RESPONSE DIGITAL SERVO CONTROLLER DATA SLICE LOOP FILTER DIGITAL VIDEO DISC
E	EC ECR ENCSEL ETMCLK ETSCCLK	ERROR TORQUE CONTROL ERROR TORQUE CONTROL REFERENCE ENCODER SELECT EXTERNAL M CLOCK (81MHz/40.5MHz) EXTERNAL S CLOCK (54MHz)
F	FBAL FCLK FE FFI FEO FG FSC FSCK	FOCUS BALANCE FRAME CLOCK FOCUS ERROR FOCUS ERROR AMP INVERTED INPUT FOCUS ERROR AMP OUTPUT FREQUENCY GENERATOR FREQUENCY SUB CARRIER FS (384 OVER SAMPLING) CLOCK
G	GND	COMMON GROUNDING (EARTH)
H	HA0~UP HD0~UP HINT HRXW	HOST ADDRESS HOST DATA HOST INTERRUPT HOST READ/WRITE
I	IECOUT IPFRAG IREF ISEL	IEC958 FORMAT DATA OUTPUT INTERPOLATION FLAG I (CURRENT) REFERENCE INTERFACE MODE SELECT
L	LDON LPC LRCK	LASER DIODE CONTROL LASER POWER CONTROL L CH/R CH DISTINCTION CLOCK
M	MA0~UP MCK MCKI MCLK MDATA MDQ0~UP MDQM MLD MPEG	MEMORY ADDRESS MEMORY CLOCK MEMORY CLOCK INPUT MEMORY SERIAL COMMAND CLOCK MEMORY SERIAL COMMAND DATA MEMORY DATA INPUT/OUTPUT MEMORY DATA I/O MASK MEMORY SERIAL COMMAND LOAD MOVING PICTURE EXPERTS GROUP
O	ODC OEH OEV 1, 2 OFTR OSCI OSCO	OPTICAL DISC CONTROLLER SOURCE DRIVER OUTPUT ENABLE GATE DRIVER OUTPUT ENABLE OFF TRACKING OSCILLATOR INPUT OSCILLATOR OUTPUT

INITIAL/LOGO	ABBREVIATIONS	
	OSD	ON SCREEN DISPLAY
P	P1~UP PCD PCK PDVD PEAK PLLCLK PLLOK PWMCTL PWMDA PWMOA, B	PORT CD TRACKING PHASE DIFFERENCE PLL CLOCK DVD TRACKING PHASE DIFFERENCE CAP. FOR PEAK HOLD CHANNEL PLL CLOCK PLL LOCK PWM OUTPUT CONTROL PULSE WAVE MOTOR DRIVE A PULSE WAVE MOTOR OUT A, B
R	RE RFENV RFO RS RSEL RST RSV	READ ENABLE RF ENVELOPE RF PHASE DIFFERENCE OUTPUT (CD-ROM) REGISTER SELECT RF POLARITY SELECT RESET RESERVE
S	SBI0, 1 SBO0 SBT0, 1 SCK SCKR SCL SCLK SDA SEG0~UP SELCLK SEN SIN1, 2 SOUT1, 2 SPDI SPDO SPEN SPRCLK SPWCLK SQCK SQCX SRDATA SRMADR SRMDT0~7 SS STAT STCLK STD0~UP STENABLE STH STSEL STV	SERIAL DATA INPUT SERIAL DATA OUTPUT SERIAL CLOCK SERIAL DATA CLOCK AUDIO SERIAL CLOCK RECEIVER SERIAL CLOCK SERIAL CLOCK SERIAL DATA FL SEGMENT OUTPUT SELECT CLOCK SERIAL PORT ENABLE SERIAL DATA IN SERIAL DATA OUT SERIAL PORT DATA INPUT SERIAL PORT DATA OUTPUT SERIAL PORT R/W ENABLE SERIAL PORT READ CLOCK SERIAL PORT WRITE CLOCK SUB CODE Q CLOCK SUB CODE Q DATA READ CLOCK SERIAL DATA SRAM ADDRESS BUS SRAM DATA BUS 0~7 START/STOP STATUS STREAM DATA CLOCK STREAM DATA STREAM DATA INPUT ENABLE SOURCE START PULSE STREAM DATA POLARITY SELECT GATE DRIVER SCAN START PULSE

INITIAL/LOGO	ABBREVIATIONS
	STVALID STREAM DATA VALIDITY SUBC SUB CODE SERIAL SBCK SUB CODE CLOCK SUBQ SUB CODE Q DATA SYSCLK SYSTEM CLOCK
T	TE TRACKING ERROR TIBAL BALANCE CONTROL TID BALANCE OUTPUT 1 TIN BALANCE INPUT TIP BALANCE INPUT TIS BALANCE OUTPUT 2 TPSN OP AMP INPUT TPSO OP AMP OUTPUT TPSP OP AMP INVERTED INPUT TRCRS TRACK CROSS SIGNAL TRON TRACKING ON TRSON TRAVERSE SERVO ON
V	VBLANK V BLANKING VCC COLLECTOR POWER SUPPLY VOLTAGE VCDCONT VIDEO CD CONTROL (TRACKING BALANCE) VDD DRAIN POWER SUPPLY VOLTAGE VFB VIDEO FEED BACK VREF VOLTAGE REFERENCE VSS SOURCE POWER SUPPLY VOLTAGE
W	WAIT BUS CYCLE WAIT WDCK WORD CLOCK WEH WRITE ENABLE HIGH WSR WORD SELECT RECEIVER
X	X X' TAL XALE X ADDRESS LATCH ENABLE XAREQ X AUDIO DATA REQUEST XCDROM X CD ROM CHIP SELECT XCS X CHIP SELECT XCSYNC X COMPOSITE SYNC XDS X DATA STROBE XHSYNCO X HORIZONTAL SYNC OUTPUT XHINT XH INTERRUPT REQUEST XI X' TAL OSCILLATOR INPUT XINT X INTERRUPT XMW X MEMORY WRITE ENABLE XO X' TAL OSCILLATOR OUTPUT XRE X READ ENABLE XSRMCE X SRAM CHIP ENABLE XSRMOE X SRAM OUTPUT ENABLE XSRMWE X SRAM WRITE ENABLE XVCS X V-DEC CHIP SELECT XVDS X V-DEC CONTROL BUS STROBE XVSYNCO X VERTICAL SYNC OUTPUT

## S7. Replacement Parts List

- Note: 1.\* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE  
Components identified with the mark  $\triangle$  have the special characteristics for safety.  
When replacing any of these components, use only the same type.
3. Unless otherwise specified,  
All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICRO-FARADS (uf), P=uuF.
4. The marking (RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.

**E.S.D. standards for Electrostatically Sensitive Devices, refer to “PREVENTION OF ELECTROSTATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES” section.**

DMP-BD30PP-K

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
##	RFKB76160A	DIGITAL P.C.B.		(RTL)	C51123	F1L1A104A009	10V 0.1U	1	
C51001	ECJ0EB1C103K	16V 0.01U	1		C51124	ECJ0EB0J105K	6.3V 1U	1	
C51002	F1G1A104A012	10V 0.1U	1		C51125	F1L1A104A009	10V 0.1U	1	
C51003	F1G1A104A012	10V 0.1U	1		C51126	ECJ2FB0J106K	6.3V 10U	1	
C51004	ECJ0EB1C103K	16V 0.01U	1		C51127	ECJ0EB0J105K	6.3V 1U	1	
C51005	F1G1A104A012	10V 0.1U	1		C51128	F1L1A104A009	10V 0.1U	1	
C51006	F1G1A104A012	10V 0.1U	1		C51129	ECJ0EB0J105K	6.3V 1U	1	
C51007	F1G1A104A012	10V 0.1U	1		C51130	F1L1A104A009	10V 0.1U	1	
C51008	F1G1A104A012	10V 0.1U	1		C51605	F1G1A104A012	10V 0.1U	1	
C51009	F1G1A104A012	10V 0.1U	1		C51610	F1G1A104A012	10V 0.1U	1	
C51010	F1G1A104A012	10V 0.1U	1		C52001	F1G1A104A012	10V 0.1U	1	
C51011	F1G1A104A012	10V 0.1U	1		C52002	F1G1A104A012	10V 0.1U	1	
C51012	F1G1A104A012	10V 0.1U	1		C52003	F1G1A104A012	10V 0.1U	1	
C51013	ECJ0EC1H070C	50V 7P	1		C52004	F1G1A104A012	10V 0.1U	1	
C51014	ECJ0EC1H070C	50V 7P	1		C52006	ECJ2FB0J106K	6.3V 10U	1	
C51017	ECJ0EB0J105K	6.3V 1U	1		C52011	ECJ2FB0J106K	6.3V 10U	1	
C51018	ECJ0EB0J105K	6.3V 1U	1		C52016	ECJ2FB0J106K	6.3V 10U	1	
C51022	F1G1A104A012	10V 0.1U	1		C52018	ECJ2FB0J106K	6.3V 10U	1	
C51023	F1G1A104A012	10V 0.1U	1		C52030	F1G1A104A012	10V 0.1U	1	
C51024	F1G1A104A012	10V 0.1U	1		C52036	F1G1A104A012	10V 0.1U	1	
C51026	F1G1A104A012	10V 0.1U	1		C52046	ECJ2FB0J106K	6.3V 10U	1	
C51027	F1G1A104A012	10V 0.1U	1		C52054	F1G1A104A012	10V 0.1U	1	
C51028	F1G1A104A012	10V 0.1U	1		C52055	F1G1A104A012	10V 0.1U	1	
C51030	F1G1A104A012	10V 0.1U	1		C52060	ECJ2FB0J106K	6.3V 10U	1	
C51036	F1G1A104A012	10V 0.1U	1		C52065	F1G1A104A012	10V 0.1U	1	
C51039	F1G1A104A012	10V 0.1U	1		C52085	F1G1A104A012	10V 0.1U	1	
C51040	ECJ2FB0J106K	6.3V 10U	1		C52086	ECJ2FB0J106K	6.3V 10U	1	
C51041	ECJ0EB1C103K	16V 0.01U	1		C52094	ECJ2FB0J106K	6.3V 10U	1	
C51042	ECJ0EB1C103K	16V 0.01U	1		C52143	F1G1A104A012	10V 0.1U	1	
C51043	ECJ0EB1C103K	16V 0.01U	1		C52144	F1G1A104A012	10V 0.1U	1	
C51047	ECJ2FB0J106K	6.3V 10U	1		C52147	F1G1A104A012	10V 0.1U	1	
C51048	ECJ0EB1C103K	16V 0.01U	1		C52150	F1G1A104A012	10V 0.1U	1	
C51049	ECJ0EB1C103K	16V 0.01U	1		C52153	F1G1A104A012	10V 0.1U	1	
C51050	ECJ0EB1C103K	16V 0.01U	1		C52154	F1G1A104A012	10V 0.1U	1	
C51057	ECJ2FB0J106K	6.3V 10U	1		C52156	F1G1A104A012	10V 0.1U	1	
C51058	ECJ0EB1C103K	16V 0.01U	1		C52157	F1G1A104A012	10V 0.1U	1	
C51059	ECJ0EB1C103K	16V 0.01U	1		C52160	F1G1A104A012	10V 0.1U	1	
C51062	ECJ2FB0J106K	6.3V 10U	1		C52163	F1G1A104A012	10V 0.1U	1	
C51063	ECJ0EB1C103K	16V 0.01U	1		C52164	F1G1A104A012	10V 0.1U	1	
C51064	ECJ0EB1C103K	16V 0.01U	1		C52166	F1G1A104A012	10V 0.1U	1	
C51065	ECJ0EB1C103K	16V 0.01U	1		C52167	F1G1A104A012	10V 0.1U	1	
C51069	ECJ2FB0J106K	6.3V 10U	1		C52170	F1G1A104A012	10V 0.1U	1	
C51070	ECJ0EB1C103K	16V 0.01U	1		C52173	F1G1A104A012	10V 0.1U	1	
C51071	ECJ0EB1C103K	16V 0.01U	1		C52174	F1G1A104A012	10V 0.1U	1	
C51072	ECJ0EB1C103K	16V 0.01U	1		C52176	F1G1A104A012	10V 0.1U	1	
C51074	ECJ2FB0J106K	6.3V 10U	1		C52177	F1G1A104A012	10V 0.1U	1	
C51075	ECJ0EB1C103K	16V 0.01U	1		C52180	F1G1A104A012	10V 0.1U	1	
C51076	F1L1A104A009	10V 0.1U	1		C52201	F1G1A104A012	10V 0.1U	1	
C51077	ECJ0EB0J105K	6.3V 1U	1		C52202	F1G1A104A012	10V 0.1U	1	
C51079	ECJ2FB0J106K	6.3V 10U	1		C52204	F1G1A104A012	10V 0.1U	1	
C51080	ECJ0EB1C103K	16V 0.01U	1		C52205	F1G1A104A012	10V 0.1U	1	
C51081	ECJ0EB1C103K	16V 0.01U	1		C52206	F1G1A104A012	10V 0.1U	1	
C51082	ECJ0EB1C103K	16V 0.01U	1		C52209	ECJ2FB0J106K	6.3V 10U	1	
C51083	ECJ0EB0J105K	6.3V 1U	1		C52212	F1G1A104A012	10V 0.1U	1	
C51086	ECJ2FB0J106K	6.3V 10U	1		C52214	ECJ2FB0J106K	6.3V 10U	1	
C51087	ECJ0EB1C103K	16V 0.01U	1		C52216	F1G1A104A012	10V 0.1U	1	
C51088	ECJ0EB0J105K	6.3V 1U	1		C52218	F1G1A104A012	10V 0.1U	1	
C51089	F1L1A104A009	10V 0.1U	1		C52221	F1G1A104A012	10V 0.1U	1	
C51095	ECJ0EC1H120J	50V 12P	1		C52223	F1G1A104A012	10V 0.1U	1	
C51096	F1G1A104A012	10V 0.1U	1		C52225	ECJ2FB0J106K	6.3V 10U	1	
C51097	ECJ0EC1H150J	50V 15P	1		C52227	F1G1A104A012	10V 0.1U	1	
C51101	ECJ2FB0J106K	6.3V 10U	1		C52228	F1G1A104A012	10V 0.1U	1	
C51102	ECJ0EB0J105K	6.3V 1U	1		C52230	ECJ2FB0J106K	6.3V 10U	1	
C51103	ECJ0EB0J105K	6.3V 1U	1		C52231	F1G1A104A012	10V 0.1U	1	
C51104	F1L1A104A009	10V 0.1U	1		C52233	F1G1A104A012	10V 0.1U	1	
C51107	F1L1A104A009	10V 0.1U	1		C52237	F1G1A104A012	10V 0.1U	1	
C51116	ECJ2FB0J106K	6.3V 10U	1		C52239	F1G1A104A012	10V 0.1U	1	
C51117	ECJ0EB0J105K	6.3V 1U	1		C52241	F1G1A104A012	10V 0.1U	1	
C51118	F1L1A104A009	10V 0.1U	1		C52249	F1G1A104A012	10V 0.1U	1	
C51119	ECJ0EB0J105K	6.3V 1U	1		C54012	ECJ1VC1H820J	50V 82P	1	
C51120	F1L1A104A009	10V 0.1U	1		C54013	ECJ1VC1H820J	50V 82P	1	
C51121	ECJ2FB0J106K	6.3V 10U	1		C54014	ECJ1XB1C104K	16V 0.1U	1	
C51122	ECJ0EB0J105K	6.3V 1U	1		C54015	ECJ1XB1C104K	16V 0.1U	1	
					C54026	F1G1A104A012	10V 0.1U	1	
					C54031	D0YAR000007	1/16W 0	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C54033	F1G1A104A012	10V 0.1U	1		C58038	ECJ2FB1E105K	25V 1U	1	
C54034	F2G0J101A083	6.3V 100U	1		C58041	ECJ0EB1C153K	16V 0.015U	1	
C54035	F1G1A104A012	10V 0.1U	1		C58043	ECJ1VB1A105K	10V 1U	1	
C54036	F1G1A104A012	10V 0.1U	1		C58049	ECJ1XB1C104K	16V 0.1U	1	
C54037	D0YAR0000007	1/16W 0	1		C58052	ECGCD0E121E	2.5V 120U	1	
C54038	F2G0J101A083	6.3V 100U	1		C58053	ECJ0EC1H221J	50V 220P	1	
C54039	D0YAR0000007	1/16W 0	1		C58054	ECJ1XB1C104K	16V 0.1U	1	
C54040	ECJ1VC1H820J	50V 82P	1		C58055	ECGCD0D151E	2V 150U	1	
C54042	ECJ1VC1H820J	50V 82P	1		C58078	F1K1C1060001	16V 10U	1	
C54044	ECJ1XB1C104K	16V 0.1U	1		C58079	F1K1C1060001	16V 10U	1	
C54045	ECJ1XB1C104K	16V 0.1U	1		C58080	F1K1C1060001	16V 10U	1	
C54050	F2G1C470A096	16V 47U	1		C58082	ECJ1XB1C104K	16V 0.1U	1	
C54051	F2G1C470A096	16V 47U	1		C58301	F1J1A2250011	10V 2.2U	1	
C54052	ECJ1VC1H820J	50V 82P	1		C58302	ECJ1VB1A105K	10V 1U	1	
C54053	ECJ1VC1H820J	50V 82P	1		C58303	ECJ0EB1C103K	16V 0.01U	1	
C54054	ECJ1VC1H820J	50V 82P	1		C58307	ECJ1VB1A105K	10V 1U	1	
C54055	ECJ1VC1H820J	50V 82P	1		C58309	ECJ2FB0J106K	6.3V 10U	1	
C54056	ECJ1XB1C104K	16V 0.1U	1		C58312	ECJ1VB1A105K	10V 1U	1	
C54057	ECJ1XB1C104K	16V 0.1U	1		C58314	ECJ1VB1A105K	10V 1U	1	
C54058	ECJ1XB1C104K	16V 0.1U	1		C58315	F1G1H1020008	50V 1000P	1	
C54059	ECJ1XB1C104K	16V 0.1U	1		C58320	ECJ3YB1E475K	25V 4.7U	1	
C54060	F1G1A104A012	10V 0.1U	1		C58321	ECJ1XB1C104K	16V 0.1U	1	
C55058	ECJ0EB1C103K	16V 0.01U	1		C58322	F2G1C4700014	16V 47U	1	
C55059	ECJ0EB1C103K	16V 0.01U	1						
C55062	ECJ0EB1C103K	16V 0.01U	1		D58002	B0JCPD000021	DIODE	1	
C55063	ECJ0EB1C103K	16V 0.01U	1		D58004	MA2SD3200L	DIODE	1	
C55064	F1G0J105A022	6.3V 1U	1		D58005	MA22D3900L	DIODE	1	
C55065	F2G0J2200034	6.3V 22U	1		D58007	MA2J11100L	DIODE	1	
C55066	F1G1A104A012	10V 0.1U	1		D58008	MA22D3900L	DIODE	1	
C55067	ECJ2FB0J106K	6.3V 10U	1						
C56002	F1G1A104A012	10V 0.1U	1		FL51001	ECJ1VB0J474K	6.3V 0.47U	1	
C56003	F1G1A104A012	10V 0.1U	1		FL51002	ECJ1VB0J474K	6.3V 0.47U	1	
C56004	F1G1A104A012	10V 0.1U	1		FL51003	ECJ1VB0J474K	6.3V 0.47U	1	
C56005	F1G1A104A012	10V 0.1U	1		FL51004	ECJ1VB0J474K	6.3V 0.47U	1	
C56006	F1G1A104A012	10V 0.1U	1		FL51005	ECJ1VB0J474K	6.3V 0.47U	1	
C56007	F1G1A104A012	10V 0.1U	1		FL51006	ECJ1VB0J474K	6.3V 0.47U	1	
C56009	F1G1A104A012	10V 0.1U	1		FL51007	ECJ1VB0J474K	6.3V 0.47U	1	
C56010	F1G1A104A012	10V 0.1U	1		FL51009	ECJ1VB0J474K	6.3V 0.47U	1	
C56011	F1G1A104A012	10V 0.1U	1		FL51011	ECJ1VB0J474K	6.3V 0.47U	1	
C56012	F1G1A104A012	10V 0.1U	1		FL51012	ECJ1VB0J474K	6.3V 0.47U	1	
C56013	F1G1A104A012	10V 0.1U	1		FL51014	ECJ1VB0J474K	6.3V 0.47U	1	
C56014	F1G1A104A012	10V 0.1U	1		FL51018	ECJ1VB0J474K	6.3V 0.47U	1	
C56016	F1G1A104A012	10V 0.1U	1		FL51021	ECJ1VB0J474K	6.3V 0.47U	1	
C56017	F1G1A104A012	10V 0.1U	1		FL51022	ECJ1VB0J474K	6.3V 0.47U	1	
C56018	F1G1A104A012	10V 0.1U	1		FL51023	ECJ1VB0J474K	6.3V 0.47U	1	
C56020	F1G1A104A012	10V 0.1U	1		FL51024	ECJ1VB0J474K	6.3V 0.47U	1	
C56022	F1G1A104A012	10V 0.1U	1		FL51025	ECJ1VB0J474K	6.3V 0.47U	1	
C56023	F1G1A104A012	10V 0.1U	1		FL51026	ECJ1VB0J474K	6.3V 0.47U	1	
C56024	F1G1A104A012	10V 0.1U	1		FL51027	ECJ1VB0J474K	6.3V 0.47U	1	
C56025	F1G1A104A012	10V 0.1U	1		FL51028	ECJ1VB0J474K	6.3V 0.47U	1	
C56026	F1G1A104A012	10V 0.1U	1		FL51029	ECJ1VB0J474K	6.3V 0.47U	1	
C56029	F1G1A104A012	10V 0.1U	1		FL51030	ECJ1VB0J474K	6.3V 0.47U	1	
C56030	F1G1A104A012	10V 0.1U	1		FL51032	ECJ1VB0J474K	6.3V 0.47U	1	
C56031	ECJ0EB1E331K	25V 330P	1		FL51033	ECJ1VB0J474K	6.3V 0.47U	1	
C56032	ECJ0EC1H221J	50V 220P	1		FL51034	ECJ1VB0J474K	6.3V 0.47U	1	
C58008	ECJ1VB1H103K	50V 0.01U	1		FL51037	ECJ1VB0J474K	6.3V 0.47U	1	
C58009	F1G1H1020008	50V 1000P	1		FL51301	ECJ1VB0J474K	6.3V 0.47U	1	
C58011	ECJ1XB1C104K	16V 0.1U	1		FL51302	ECJ1VB0J474K	6.3V 0.47U	1	
C58012	ECJ1XB1C104K	16V 0.1U	1		FL51601	ECJ1VB0J474K	6.3V 0.47U	1	
C58013	ECJ1XB1C104K	16V 0.1U	1		FL52001	ECJ1VB0J474K	6.3V 0.47U	1	
C58014	ECJ1VB1A105K	10V 1U	1		FL52002	ECJ1VB0J474K	6.3V 0.47U	1	
C58015	F1K1C1060001	16V 10U	1		FL52003	ECJ1VB0J474K	6.3V 0.47U	1	
C58016	ECJ0EB1E331K	25V 330P	1		FL52004	ECJ1VB0J474K	6.3V 0.47U	1	
C58017	ECJ2FB0J106K	6.3V 10U	1		FL52010	ECJ1VB0J474K	6.3V 0.47U	1	
C58018	ECJ2FB0J106K	6.3V 10U	1		FL52013	ECJ1VB0J474K	6.3V 0.47U	1	
C58020	ECJ2FB0J106K	6.3V 10U	1		FL52014	ECJ1VB0J474K	6.3V 0.47U	1	
C58023	F1G1A104A012	10V 0.1U	1		FL52017	ECJ1VB0J474K	6.3V 0.47U	1	
C58024	ECJ0EB1C183K	16V 0.018U	1		FL52018	ECJ1VB0J474K	6.3V 0.47U	1	
C58025	ECJ0EC1H221J	50V 220P	1		FL52201	ECJ1VB0J474K	6.3V 0.47U	1	
C58026	F1G1H1020008	50V 1000P	1		FL52202	ECJ1VB0J474K	6.3V 0.47U	1	
C58032	ECJ1XB1C104K	16V 0.1U	1		FL52203	ECJ1VB0J474K	6.3V 0.47U	1	
C58033	F1K1C1060001	16V 10U	1		FL52204	ECJ1VB0J474K	6.3V 0.47U	1	
C58035	ECJ2FB0J475K	6.3V 4.7U	1		FL52205	ECJ1VB0J474K	6.3V 0.47U	1	
C58036	ECJ1XB1C104K	16V 0.1U	1		FL55003	ECJ1VB0J474K	6.3V 0.47U	1	
C58037	F1K1C1060001	16V 10U	1		FL56001	ECJ1VB0J474K	6.3V 0.47U	1	



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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
FL56002	ECJ1VB0J474K	6.3V 0.47U	1		LB52018	ERJ3GEY0R00	1/10W 0	1	
FL56003	ECJ1VB0J474K	6.3V 0.47U	1		LB52201	J0JGC0000020	COIL	1	
FL56004	ECJ1VB0J474K	6.3V 0.47U	1		LB52202	ERJ3GEY0R00	1/10W 0	1	
					LB52203	ERJ3GEY0R00	1/10W 0	1	
IC51001	RFKB76160A	IC	1		LB52204	ERJ3GEY0R00	1/10W 0	1	
IC51002	C0EBE000368	IC	1		LB52205	ERJ3GEY0R00	1/10W 0	1	
IC51003	C1CB00002777	IC	1		LB55013	J0JYC0000070	COIL	1	
IC51005	C1CB00002408	IC	1		LB55014	J0JYC0000070	COIL	1	
IC51302	RFKB76160A	IC	1		LB56002	ERJ3GEY0R00	1/10W 0	1	
IC51303	C3ZBL0000027	IC	1		LB56003	ERJ3GEY0R00	1/10W 0	1	
IC52001	C3ABSC000018	IC	1		LB56004	ERJ3GEY0R00	1/10W 0	1	
IC52002	C3ABSC000018	IC	1		LB56005	ERJ3GEY0R00	1/10W 0	1	
IC52003	C3ABSC000018	IC	1		LB56006	ERJ3GEY0R00	1/10W 0	1	
IC52006	C1CB00002678	IC	1		LB56007	ERJ3GEY0R00	1/10W 0	1	
IC52010	C3ABSC000018	IC	1		LB56008	ERJ3GEY0R00	1/10W 0	1	
IC52240	C1CB00002678	IC	1		LB58004	ERJ6GEY0R00V	1/8W 0	1	
IC52271	C3ABSG000051	IC	1		LB58016	ERJ3GEY0R00	1/10W 0	1	
IC52272	C3ABSG000051	IC	1		LB58301	J0JHC0000045	COIL	1	
IC54012	C0ABB000230	IC	1		LB58302	ERJ3GEY0R00	1/10W 0	1	
IC54023	C0FBK000050	IC	1		LB58303	ERJ3GEY0R00	1/10W 0	1	
IC54024	C0ABB000230	IC	1		LB58304	ERJ3GEY0R00	1/10W 0	1	
IC54026	C0ABB000230	IC	1		LB58305	ERJ3GEY0R00	1/10W 0	1	
IC54027	C0ABB000230	IC	1		LB58306	ERJ3GEY0R00	1/10W 0	1	
IC56002	MN864704KP	IC	1		LB58307	ERJ3GEY0R00	1/10W 0	1	
IC58001	C0DBAYY00317	IC	1		LB58310	ERJ3GEY0R00	1/10W 0	1	
IC58003	C0DBAYY00273	IC	1		LB58311	ERJ3GEY0R00	1/10W 0	1	
IC58004	C0DBAYH00003	IC	1		LB58312	ERJ3GEY0R00	1/10W 0	1	
IC58301	C0CBDD00004	IC	1		LB58313	ERJ3GEY0R00	1/10W 0	1	
IC58303	C0DBEYY00016	IC	1		LB58314	ERJ3GEY0R00	1/10W 0	1	
△ IC58304	C0DBGFD00024	IC	1		LB58315	ERJ3GEY0R00	1/10W 0	1	
△ IP58301	ERBSE3R00U	IC PROTECTOR	1		LB58316	ERJ3GEY0R00	1/10W 0	1	
					LB58317	ERJ3GEY0R00	1/10W 0	1	
					LB58318	ERJ3GEY0R00	1/10W 0	1	
JK56001	K1FA119E0013	JACK,HDMI	1		LB58319	ERJ3GEY0R00	1/10W 0	1	
					LB58320	ERJ3GEY0R00	1/10W 0	1	
L56001	VLQ0911K100	COIL 10UH	1		LB58321	ERJ3GEY0R00	1/10W 0	1	
L56002	VLQ0911K100	COIL 10UH	1		LB58322	ERJ3GEY0R00	1/10W 0	1	
L56003	J0MAB0000224	COIL	1		LB58323	J0JHC0000045	COIL	1	
L56004	J0MAB0000224	COIL	1		LB58324	VL0332A420T	COIL	1	
L56005	J0MAB0000224	COIL	1		LB58325	ERJ3GEY0R00	1/10W 0	1	
L56006	J0MAB0000224	COIL	1						
L58001	G1C100M00041	COIL	1		P51601	K1KA06AA0083	CONNECTOR(6P)	1	
L58003	G1C4R7Z00014	COIL	1		P51603	K1MN40AA0082	CONNECTOR(40P)	1	
L58005	G1C2R2Z00006	COIL	1		P58002	K1KY23AA0607	CONNECTOR(23P)	1	
					P58003	K1KY23AA0607	CONNECTOR(23P)	1	
LB51001	J0JYC0000070	COIL	1		P58004	K1KY23AA0607	CONNECTOR(23P)	1	
LB51002	J0JYC0000070	COIL	1		P58005	K1KY23AA0607	CONNECTOR(23P)	1	
LB51003	J0JYC0000070	COIL	1		P58006	K1KA03AA0083	CONNECTOR(3P)	1	
LB51004	J0JYC0000070	COIL	1		P58007	K1KY09AA0607	CONNECTOR(9P)	1	
LB51005	J0JYC0000070	COIL	1						
LB51007	J0JGC0000020	COIL	1		Q55015	2SA1532	TRANSISTOR	1	
LB51008	J0JGC0000020	COIL	1		Q55016	2SA1532	TRANSISTOR	1	
LB51012	J0JGC0000020	COIL	1		Q55017	2SA1532	TRANSISTOR	1	
LB51013	J0JGC0000020	COIL	1		Q55018	B1ADCF000154	TRANSISTOR	1	
LB51014	J0JGC0000020	COIL	1		Q55019	B1ADCF000154	TRANSISTOR	1	
LB51015	J0JGC0000020	COIL	1		Q56004	B1ABDF000026	TRANSISTOR	1	
LB51016	J0JGC0000020	COIL	1		Q56005	B1ABDF000026	TRANSISTOR	1	
LB51017	J0JGC0000020	COIL	1		Q56006	B1ABDF000026	TRANSISTOR	1	
LB51018	J0JGC0000020	COIL	1		Q56007	B1ABDF000026	TRANSISTOR	1	
LB51019	J0JGC0000020	COIL	1		Q56008	B1ABDF000026	TRANSISTOR	1	
LB51022	ERJ3GEY0R00	1/10W 0	1		Q58001	2SB1218A	TRANSISTOR	1	
LB51025	ERJ3GEY0R00	1/10W 0	1		△ Q58002	B1CHQD000008	TRANSISTOR	1	
LB51026	ERJ3GEY0R00	1/10W 0	1		Q58004	B1MBDDA00015	TRANSISTOR	1	
LB51027	ERJ3GEY0R00	1/10W 0	1		△ Q58005	B1CFRD000023	TRANSISTOR	1	
LB51301	J0JYC0000070	COIL	1						
LB51302	J0JYC0000070	COIL	1		QR51001	B1GDCFGG0028	TRANSISTOR	1	
LB51601	J0JGC0000020	COIL	1		QR51002	B1GDCFGG0028	TRANSISTOR	1	
LB52001	ERJ3GEY0R00	1/10W 0	1		QR51003	B1GBCFGG0024	TRANSISTOR	1	
LB52002	ERJ3GEY0R00	1/10W 0	1		QR51004	B1GBCFGG0024	TRANSISTOR	1	
LB52007	ERJ3GEY0R00	1/10W 0	1		QR51603	B1GBCFJN0039	TRANSISTOR	1	
LB52008	ERJ3GEY0R00	1/10W 0	1		QR54005	B1GBCFJJ0040	TRANSISTOR	1	
LB52010	J0JGC0000020	COIL	1		QR58001	UNR9213J	TRANSISTOR	1	
LB52013	ERJ3GEY0R00	1/10W 0	1						
LB52014	ERJ3GEY0R00	1/10W 0	1		R51001	ERJ2GEJ103	1/16W 10K	1	
LB52017	ERJ3GEY0R00	1/10W 0	1		R51002	ERJ2GEJ181	1/16W 180	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R51003	ERJ2GEJ181	1/16W 180	1		R52008	ERJ2GEJ103	1/16W 10K	1	
R51006	D0YAR0000007	1/16W 0	1		R52009	ERJ2GEJ103	1/16W 10K	1	
R51008	ERJ2GEJ152	1/16W 1.5K	1		R52011	ERJ2GEJ201	1/16W 200	1	
R51009	ERJ2RHD272	1/16W 2.7K	1		R52012	ERJ2GEJ201	1/16W 200	1	
R51013	ERJ2RHD682X	1/16W 6.8K	1		R52016	ERJ2GEJ201	1/16W 200	1	
R51014	ERJ2RHD682X	1/16W 6.8K	1		R52018	D0HA271ZA001	1/16W 270	1	
R51018	ERJ2GEJ470	1/16W 47	1		R52019	D0HA271ZA001	1/16W 270	1	
R51019	ERJ2GEJ513X	1/16W 51K	1		R52027	ERJ2GEJ201	1/16W 200	1	
R51023	ERJ2GEJ391	1/16W 390	1		R52028	ERJ2GEJ151	1/16W 150	1	
R51031	ERJ2GEJ470	1/16W 47	1		R52044	ERJ2GEJ101	1/16W 100	1	
R51033	ERJ2GEJ470	1/16W 47	1		R52045	D0HA271ZA001	1/16W 270	1	
R51038	ERJ2GEJ470	1/16W 47	1		R52046	D0HA271ZA001	1/16W 270	1	
R51039	ERJ2GEJ470	1/16W 47	1		R52116	ERJ2GEJ560X	1/16W 56	1	
R51045	ERJ2GEJ101	1/16W 100	1		R52117	ERJ2GEJ560X	1/16W 56	1	
R51046	ERJ2GEJ101	1/16W 100	1		R52118	ERJ2RKD330	1/16W 33	1	
R51050	ERJ2GEJ103	1/16W 10K	1		R52201	ERJ2GEJ100	1/16W 10	1	
R51053	ERJ2GEJ470	1/16W 47	1		R52202	ERJ2GEJ100	1/16W 10	1	
R51054	ERJ2GEJ470	1/16W 47	1		R52203	ERJ2GEJ151	1/16W 150	1	
R51303	ERJ2GEJ103	1/16W 10K	1		R52204	ERJ2GEJ101	1/16W 100	1	
R51305	ERJ2GEJ560X	1/16W 56	1		R52205	ERJ2GEJ103	1/16W 10K	1	
R51306	D0YAR0000007	1/16W 0	1		R52208	ERJ2GEJ101	1/16W 100	1	
R51307	ERJ2GEJ103	1/16W 10K	1		R52209	ERJ2GEJ820	1/16W 82	1	
R51310	ERJ2GEJ103	1/16W 10K	1		R52210	ERJ2GEJ820	1/16W 82	1	
R51312	ERJ2GEJ222	1/16W 2.2K	1		R52211	ERJ2GEJ470	1/16W 47	1	
R51313	ERJ2GEJ222	1/16W 2.2K	1		R52214	ERJ2GEJ103	1/16W 10K	1	
R51314	ERJ2GEJ560X	1/16W 56	1		R52221	ERJ2GEJ301	1/16W 300	1	
R51316	ERJ2GEJ472	1/16W 4.7K	1		R52222	D0HA271ZA001	1/16W 270	1	
R51317	ERJ2GEJ472	1/16W 4.7K	1		R52223	D0HA271ZA001	1/16W 270	1	
R51318	ERJ2GEJ472	1/16W 4.7K	1		R52226	ERJ2GEJ301	1/16W 300	1	
R51601	ERJ2GEJ470	1/16W 47	1		R52227	D0HA271ZA001	1/16W 270	1	
R51602	ERJ2GEJ560X	1/16W 56	1		R52228	D0HA271ZA001	1/16W 270	1	
R51604	ERJ2GEJ470	1/16W 47	1		R54008	ERJ2GEJ470	1/16W 47	1	
R51605	D0YAR0000007	1/16W 0	1		R54010	ERJ2GEJ470	1/16W 47	1	
R51606	D0YAR0000007	1/16W 0	1		R54011	ERJ2GEJ101	1/16W 100	1	
R51608	ERJ2GEJ103	1/16W 10K	1		R54012	ERJ2GEJ101	1/16W 100	1	
R51609	ERJ2GEJ103	1/16W 10K	1		R54013	ERJ2GEJ101	1/16W 100	1	
R51610	ERJ2GEJ103	1/16W 10K	1		R54014	ERJ2GEJ101	1/16W 100	1	
R51613	ERJ2GEJ103	1/16W 10K	1		R54015	ERJ2GEJ101	1/16W 100	1	
R51616	ERJ2GEJ560X	1/16W 56	1		R54016	ERJ2GEJ101	1/16W 100	1	
R51617	ERJ2GEJ560X	1/16W 56	1		R54017	D0HD153ZA002	1/10W 15K	1	
R51618	ERJ2GEJ560X	1/16W 56	1		R54018	D0HD103ZA002	1/10W 10K	1	
R51619	ERJ2GEJ470	1/16W 47	1		R54019	D0HD153ZA002	1/10W 15K	1	
R51620	ERJ2GEJ470	1/16W 47	1		R54022	ERJ2GEJ333	1/16W 33K	1	
R51625	ERJ2GEJ470	1/16W 47	1		R54023	D0HD103ZA002	1/10W 10K	1	
R51626	ERJ2GEJ470	1/16W 47	1		R54027	ERJ2GEJ333	1/16W 33K	1	
R51628	ERJ2GEJ103	1/16W 10K	1		R54029	ERJ2GEJ103	1/16W 10K	1	
R51632	ERJ2GEJ560X	1/16W 56	1		R54031	ERJ2GEJ103	1/16W 10K	1	
R51634	ERJ2GEJ473	1/16W 47K	1		R54034	ERJ2GEJ333	1/16W 33K	1	
R51638	ERJ2GEJ103	1/16W 10K	1		R54036	ERJ2GEJ333	1/16W 33K	1	
R51640	ERJ2GEJ103	1/16W 10K	1		R54037	ERJ2GEJ470	1/16W 47	1	
R51651	ERJ2GEJ103	1/16W 10K	1		R54038	ERJ2GEJ470	1/16W 47	1	
R51652	ERJ2RKD330	1/16W 33	1		R54039	ERJ2GEJ101	1/16W 100	1	
R51653	ERJ2RKD330	1/16W 33	1		R54040	ERJ2GEJ101	1/16W 100	1	
R51654	ERJ2RKD330	1/16W 33	1		R54041	ERJ2GEJ101	1/16W 100	1	
R51655	ERJ2GEJ820	1/16W 82	1		R54042	ERJ2GEJ101	1/16W 100	1	
R51656	ERJ2GEJ820	1/16W 82	1		R54043	ERJ2GEJ101	1/16W 100	1	
R51657	ERJ2GEJ472	1/16W 4.7K	1		R54044	ERJ2GEJ470	1/16W 47	1	
R51658	ERJ2GEJ820	1/16W 82	1		R54048	ERJ2GEJ333	1/16W 33K	1	
R51659	D0YAR0000007	1/16W 0	1		R54049	ERJ2GEJ333	1/16W 33K	1	
R51660	ERJ2GEJ562	1/16W 5.6K	1		R54051	ERJ2GEJ333	1/16W 33K	1	
R51672	ERJ2GEJ102X	1/16W 1K	1		R54063	D0HB153ZA002	1/10W 15K	1	
R51673	ERJ2GEJ333	1/16W 33K	1		R54065	ERJ3RBD103	1/16W 10K	1	
R51674	ERJ2GEJ333	1/16W 33K	1		R54067	ERJ3GEYJ222	1/10W 2.2K	1	
R51675	D0YAR0000007	1/16W 0	1		R54068	D0HB153ZA002	1/10W 15K	1	
R51676	ERJ2GEJ220	1/16W 22	1		R54072	ERJ3RBD103	1/16W 10K	1	
R51690	ERJ2GEJ560X	1/16W 56	1		R54080	ERJ3GEY0R00	1/10W 0	1	
R51691	ERJ2GEJ560X	1/16W 56	1		R54081	ERJ3GEY0R00	1/10W 0	1	
R51692	ERJ2GEJ103	1/16W 10K	1		R54082	ERJ3GEY0R00	1/10W 0	1	
R52001	ERJ2GEJ100	1/16W 10	1		R54083	D0HD153ZA002	1/10W 15K	1	
R52002	ERJ2GEJ100	1/16W 10	1		R54084	JAR0816P273D	1/16W 27K	1	
R52003	ERJ2RKD750	1/16W 75	1		R54085	D0HD103ZA002	1/10W 10K	1	
R52004	ERJ2GEJ301	1/16W 300	1		R54086	ERJ3RBD103	1/16W 10K	1	
R52005	ERJ2RKD750	1/16W 75	1		R54087	D0HD153ZA002	1/10W 15K	1	
R52006	ERJ2RKD750	1/16W 75	1		R54088	D0HB153ZA002	1/10W 15K	1	
R52007	ERJ2GEJ101	1/16W 100	1		R54091	D0HD103ZA002	1/10W 10K	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R54093	ERJ3RBD103	1/16W 10K	1		R58006	ERJ3GEY0R00	1/10W 0	1	
R54099	ERJ3GEY0R00	1/10W 0	1		R58008	ERJ2GEJ224	1/16W 220K	1	
R54100	ERJ3GEY0R00	1/10W 0	1		R58009	ERJ2GED273X	1/16W 56K	1	
R54101	DOYAR0000007	1/16W 0	1		R58010	ERJ2GEJ101	1/16W 100	1	
R54102	ERJ3GEY0R00	1/10W 0	1		R58011	ERJ2GEJ473	1/16W 47K	1	
R54103	ERJ3GEY0R00	1/10W 0	1		R58013	ERJ2RHD272	1/16W 2.7K	1	
R54104	ERJ3GEY0R00	1/10W 0	1		R58015	ERJ2GEJ101	1/16W 100	1	
R54105	ERJ3GEY0R00	1/10W 0	1		R58016	ERJ2GEJ393	1/16W 39K	1	
R54106	ERJ2GEJ470	1/16W 47	1		R58018	ERJ2GEJ104	1/16W 100K	1	
R54107	ERJ2GEJ470	1/16W 47	1		R58019	D1BDR027A101	2W 0.027U	1	
R55035	ERJ2GEJ333	1/16W 33K	1		R58020	ERJ3RBD561	1/16W 560	1	
R55038	ERJ3GEY0R00	1/10W 0	1		R58021	ERJ3RBD103	1/16W 10K	1	
R55100	ERJ2RHD123X	1/16W 12K	1		R58022	ERJ3RBD242	1/16W 2.4K	1	
R55101	ERJ2RHD243	1/16W 24K	1		R58026	ERJ2GEJ393	1/16W 39K	1	
R55102	ERJ2RHD103	1/16W 10K	1		R58027	ERJ2GEJ473	1/16W 47K	1	
R55103	ERJ2RKD680	1/16W 68	1		R58033	ERJ2GEJ101	1/16W 100	1	
R55104	ERJ2RKD120	1/16W 12	1		R58034	DOYAR0000007	1/16W 0	1	
R55106	ERJ2RKD330	1/16W 33	1		R58035	ERJ2GEJ221	1/16W 220	1	
R55107	ERJ3GEYJ681	1/10W 680	1		R58036	ERJ3GEYJ222	1/10W 2.2K	1	
R55108	ERJ2RKD680	1/16W 68	1		R58038	ERJ2GEJ2R2X	1/16W 2.2	1	
R55109	ERJ2RKD120	1/16W 12	1		R58040	ERJ2GEJ473	1/16W 47K	1	
R55111	ERJ2RKD330	1/16W 33	1		R58041	DOYAR0000007	1/16W 0	1	
R55112	ERJ3GEYJ681	1/10W 680	1		R58042	DOYAR0000007	1/16W 0	1	
R55113	ERJ2RKD680	1/16W 68	1		R58043	ERJ2GEJ2R2X	1/16W 2.2	1	
R55114	ERJ2RKD120	1/16W 12	1		R58044	ERJ3GEY0R00	1/10W 0	1	
R55116	ERJ2RKD330	1/16W 33	1		R58050	D1BDR015A101	2W 15	1	
R55117	ERJ3GEYJ681	1/10W 680	1		R58053	ERJ3RBD102	1/16W 1K	1	
R55118	ERJ2RKD680	1/16W 68	1		R58054	ERJ3RBD752	1/16W 7.5K	1	
R55119	ERJ2RKD150	1/16W 15	1		R58055	ERJ3RBD103	1/16W 10K	1	
R55121	ERJ2RKD330	1/16W 33	1		R58057	ERJ3RBD562	1/16W 5.6K	1	
R55122	ERJ3GEYJ681	1/10W 680	1		R58065	ERJ3RBD273	1/16W 27K	1	
R55123	ERJ2RKD680	1/16W 68	1		R58066	ERJ3RBD393	1/16W 39K	1	
R55124	ERJ2RKD120	1/16W 12	1		R58069	ERJ2GEJ473	1/16W 47K	1	
R55126	ERJ2RKD330	1/16W 33	1		R58076	ERJ2GEJ101	1/16W 100	1	
R55127	ERJ3GEYJ681	1/10W 680	1		R58301	ERJ3GEYJ121	1/10W 120	1	
R55128	DOYAR0000007	1/16W 0	1		R58302	ERJ3GEY0R00	1/10W 0	1	
R55129	DOYAR0000007	1/16W 0	1		R58304	ERJ3RBD182	1/16W 1.8K	1	
R55130	DOYAR0000007	1/16W 0	1		R58305	ERJ3RBD153	1/16W 15K	1	
R55131	DOYAR0000007	1/16W 0	1		R58306	ERJ3RBD103	1/16W 10K	1	
R55132	DOYAR0000007	1/16W 0	1		R58311	ERJ3GEY0R00	1/10W 0	1	
R56005	ERJ2GEJ470	1/16W 47	1		R58312	ERJ3GEY0R00	1/10W 0	1	
R56006	ERJ2RKD330	1/16W 33	1		R58313	ERJ3GEY0R00	1/10W 0	1	
R56007	ERJ2RKD330	1/16W 33	1		R58316	ERJ3GEY0R00	1/10W 0	1	
R56010	ERJ3GEY0R00	1/10W 0	1		R58318	ERJ2GEJ103	1/16W 10K	1	
R56012	ERJ2GEJ103	1/16W 10K	1		R58319	ERJ3GEY0R00	1/10W 0	1	
R56013	DOYAR0000007	1/16W 0	1		R58320	ERJ6GEY0R00V	1/8W 0	1	
R56014	ERJ2RKD330	1/16W 33	1		R58321	ERJ3GEY0R00	1/10W 0	1	
R56015	ERJ2GEJ103	1/16W 10K	1		R58322	ERJ3GEY0R00	1/10W 0	1	
R56017	ERJ2GEJ751	1/16W 750	1		R58323	DOYAR0000007	1/16W 0	1	
R56018	ERJ2GEJ103	1/16W 10K	1		R59009	ERJ2GEJ103	1/16W 10K	1	
R56019	ERJ2GEJ101	1/16W 100	1		R59032	ERJ3GEY0R00	1/10W 0	1	
R56020	ERJ2GEJ101	1/16W 100	1						
R56021	ERJ2GEJ103	1/16W 10K	1		RX51001	D1H84724A024	RESISTOR-RESISTOR	1	
R56022	DOYAR0000007	1/16W 0	1		RX51002	D1H83334A024	RESISTOR-RESISTOR	1	
R56023	DOYAR0000007	1/16W 0	1		RX51003	D1H83334A024	RESISTOR-RESISTOR	1	
R56024	ERJ2GEJ511	1/16W 510	1		RX51004	D1H83334A024	RESISTOR-RESISTOR	1	
R56025	DOYAR0000007	1/16W 0	1		RX51005	D1H83334A024	RESISTOR-RESISTOR	1	
R56026	ERJ2GEJ222	1/16W 2.2K	1		RX51006	D1H83334A024	RESISTOR-RESISTOR	1	
R56028	DOYAR0000007	1/16W 0	1		RX51007	D1H83334A024	RESISTOR-RESISTOR	1	
R56030	DOYAR0000007	1/16W 0	1		RX51008	D1H83334A024	RESISTOR-RESISTOR	1	
R56031	ERJ2GEJ222	1/16W 2.2K	1		RX51009	D1H83334A024	RESISTOR-RESISTOR	1	
R56034	ERJ2GED273X	1/16W 56K	1		RX51301	D1H85604A024	RESISTOR-RESISTOR	1	
R56035	ERJ2GED273X	1/16W 56K	1		RX51302	D1H85604A024	RESISTOR-RESISTOR	1	
R56036	ERJ2GEJ221	1/16W 220	1		RX51303	D1H85604A024	RESISTOR-RESISTOR	1	
R56037	ERJ2GEJ473	1/16W 47K	1		RX51304	EXB28V103JX	RESISTOR-RESISTOR	1	
R56038	ERJ2GEJ333	1/16W 33K	1		RX51305	D1H85604A024	RESISTOR-RESISTOR	1	
R56039	ERJ2GEJ225	1/16W 2.2M	1		RX51306	D1H85604A024	RESISTOR-RESISTOR	1	
R56040	ERJ2GEJ103	1/16W 10K	1		RX51307	D1H85604A024	RESISTOR-RESISTOR	1	
R56041	ERJ2GEJ224	1/16W 220K	1		RX51308	D1H85604A024	RESISTOR-RESISTOR	1	
R56042	ERJ2GEJ104	1/16W 100K	1		RX51309	D1H85604A024	RESISTOR-RESISTOR	1	
R56043	ERJ2GEJ104	1/16W 100K	1		RX51310	D1H85604A024	RESISTOR-RESISTOR	1	
R56049	ERJ2GEJ333	1/16W 33K	1		RX51311	D1H85604A024	RESISTOR-RESISTOR	1	
R56050	ERJ2GEJ470	1/16W 47	1		RX51312	D1H85604A024	RESISTOR-RESISTOR	1	
R56051	ERJ2GEJ470	1/16W 47	1		RX51313	D1H85604A024	RESISTOR-RESISTOR	1	
R56052	ERJ2GEJ470	1/16W 47	1		RX51314	D1H85604A024	RESISTOR-RESISTOR	1	

