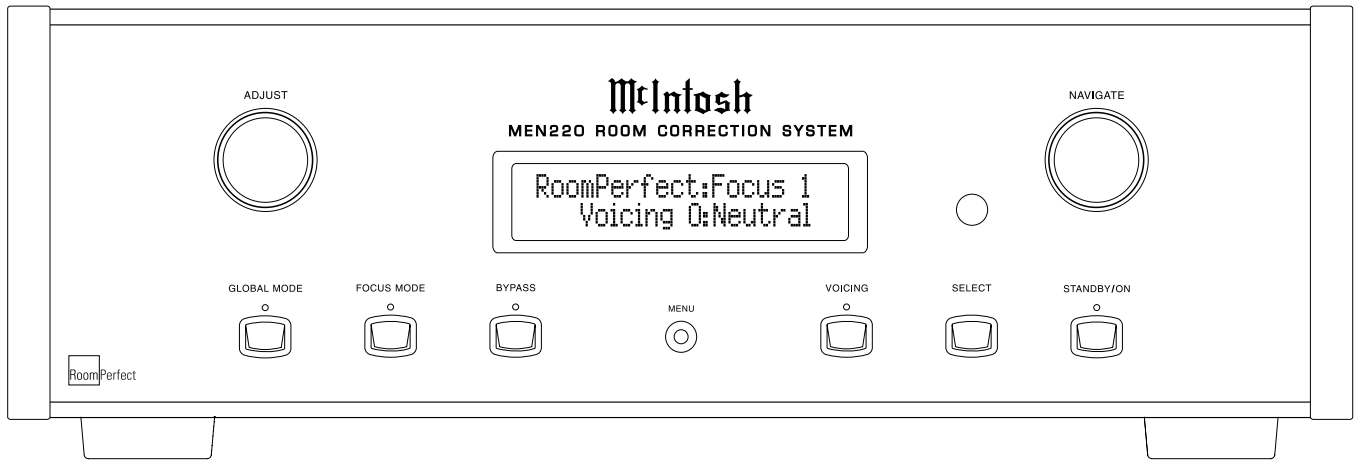




MEN220

ROOM CORRECTION SYSTEM

SERIAL NO. ZN1001 And Above



CONTENTS

Performance Specifications.....	2	Main Schematic and PCB	9 - 30
Notes.....	2	SP01 Schematic and PCB	31 - 38
Rear Panel	3	AD01 Schematic and PCB	39 - 42
Section Location.....	3	Display/Keyboard Schematic and PCB.....	43 - 46
Block Diagram	5 - 6	Parts List	47 - 68
Interconnection Diagram.....	7 - 8	Repacking Instruction	69

SERVICE MANUAL

PERFORMANCE SPECIFICATIONS

Audio Specifications:

Unless otherwise noted, the below MEN220 Specifications were taken with RoomPerfect set to Bypass Mode and Voicing Mode set to Neutral.

Frequency Response

+0, -0.5dB from 20Hz to 20,000Hz

Total Harmonic Distortion

0.002% from 20Hz to 20,000Hz

Maximum Input Voltage

4.5V Unbalanced and Balanced (Preamp-Power Amp)
2.25V Unbalanced and Balanced (Processor Loop)

Maximum Output Voltage

4.5V Unbalanced and Balanced (Preamp-Power Amp)
2.25V Unbalanced and Balanced (Processor Loop)

Signal To Noise Ratio (A-Weighted)

100dB

Input Impedance

10K ohms Unbalanced and Balanced

Voltage Gain

0dB

Output Impedance

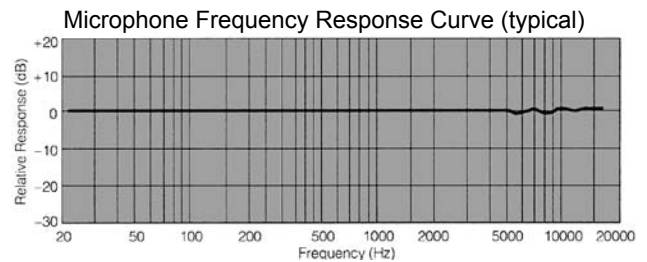
50 ohms

Crossover Filter Types, Order and Slope

Butterworth, 1st order, 6 dB/octave
Butterworth, 2nd order, 12 dB/octave
Butterworth, 4th order, 24 dB/octave
Linkwitz-Riley, 2nd order, 12 dB/octave
Linkwitz-Riley, 4th order, 24 dB/octave
Linkwitz-Riley, 8th order, 48 dB/octave

Measurement Microphone

Omnidirectional Electret Condenser Microphone



General Specifications:

Power Requirements

100V ~ 50/60Hz at 35 watts
110V ~ 50/60Hz at 35 watts
120V ~ 50/60Hz at 35 watts
220V ~ 50/60Hz at 35 watts
230V ~ 50/60Hz at 35 watts
240V ~ 50/60Hz at 35 watts
Standby, less than 1 watt

Note: Refer to the rear panel of the MEN220 for the correct voltage.

Overall Dimensions

Width is 17-1/2 inches (44.45cm)
Height is 6 inches (15.24cm) including feet
Depth is 18 inches (45.72cm) including the Front Panel, Knobs and Cables


Weight

25.5 pounds (11.6 kg) net, 41.9 pounds (19.0 kg) in shipping carton

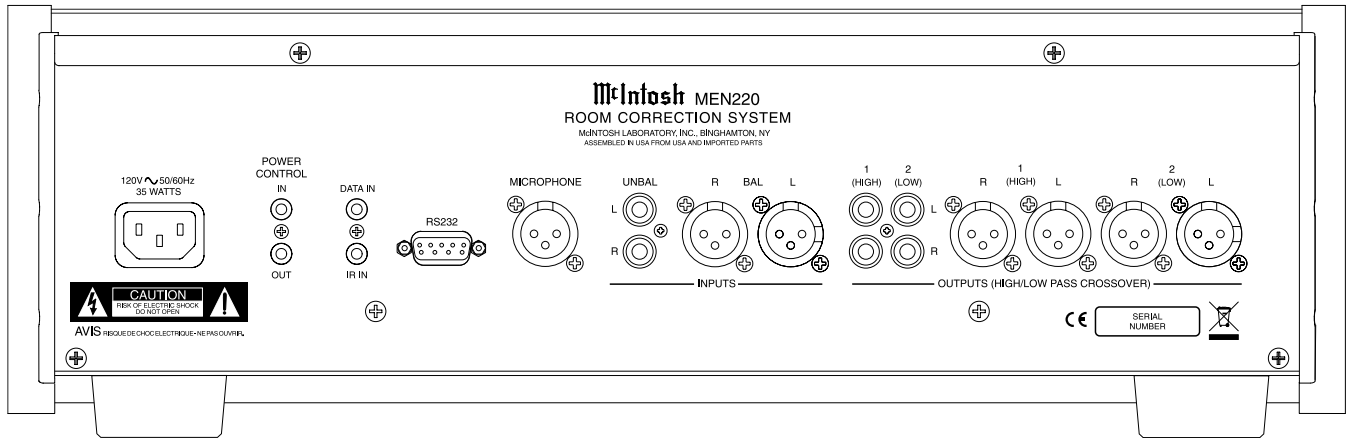
Shipping Carton Dimensions

Width is 26-1/2 inches (67.3cm)
Depth is 24-1/4 inches (62.2cm)
Height is 11-3/4 inches (29.9cm)

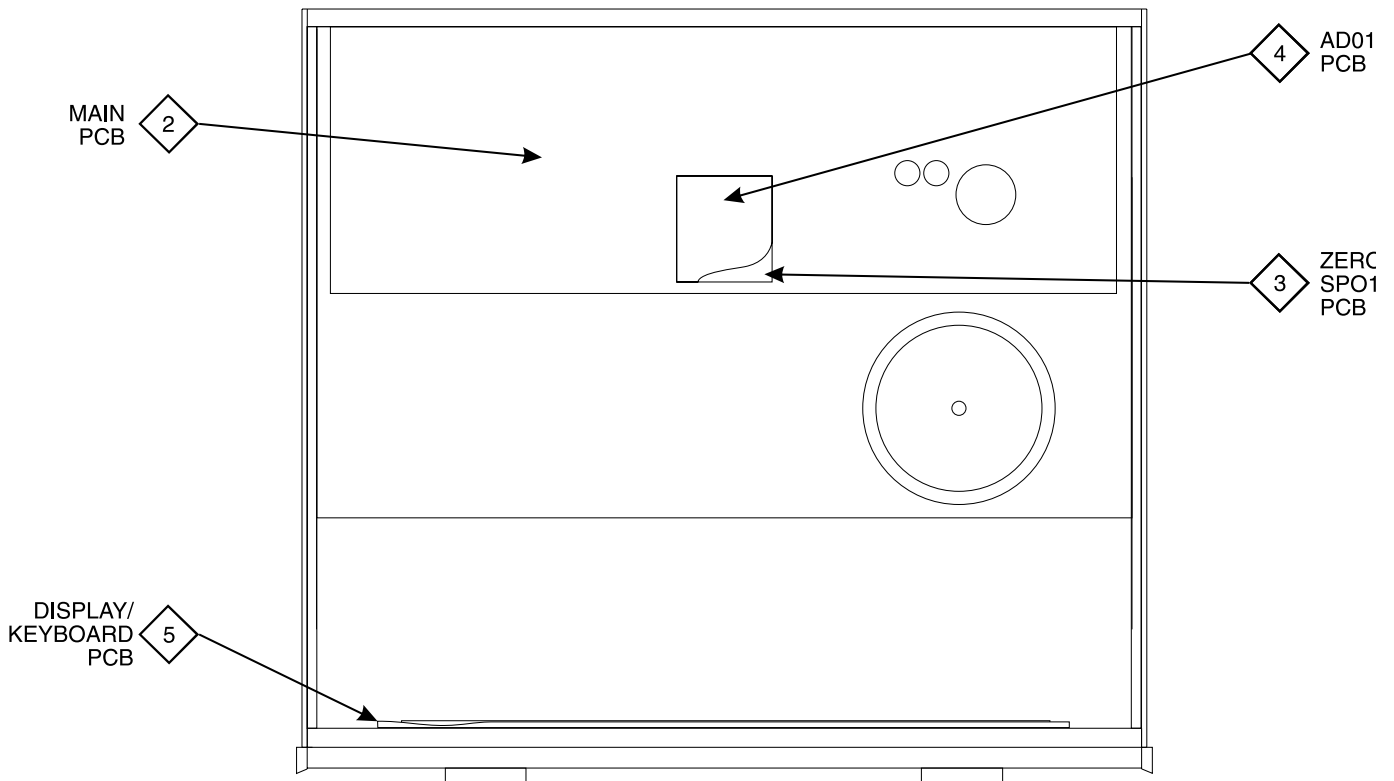
NOTES

1. Unless otherwise noted, all voltages indicated on the schematics are measured under the following conditions:
 - a. AC input at rated voltage marked on rear panel.
 - b. All voltages are +/-10% with respect to ground. A high impedance (10 megaohm) voltmeter must be used.
2. Unless otherwise specified:
 - a. Resistor values are in ohms.
 - b. Capacitor values are microfarads (uF).
 - c. Inductor values are in microhenries (uH)
3. On PC board drawings, Square pad indicates:
 - a. Polarized Capacitors - Positive
 - b. Diodes - Cathode
 - c. Others - Pin 1
4. **WARNING**
Parts marked with the symbol  have critical characteristics. Use only replacement parts recommended by the manufacturer.
5. Use McIntosh Remote Control Model HR063.

REAR PANEL

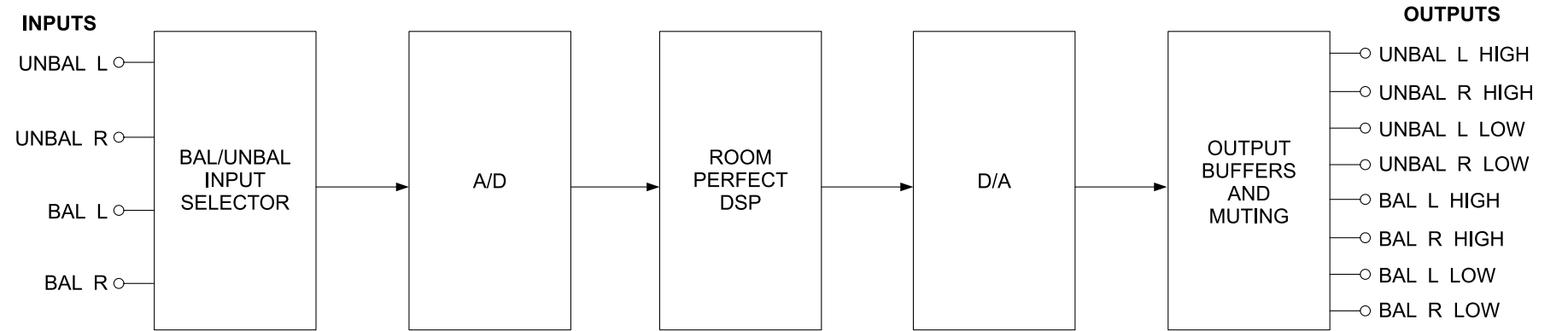
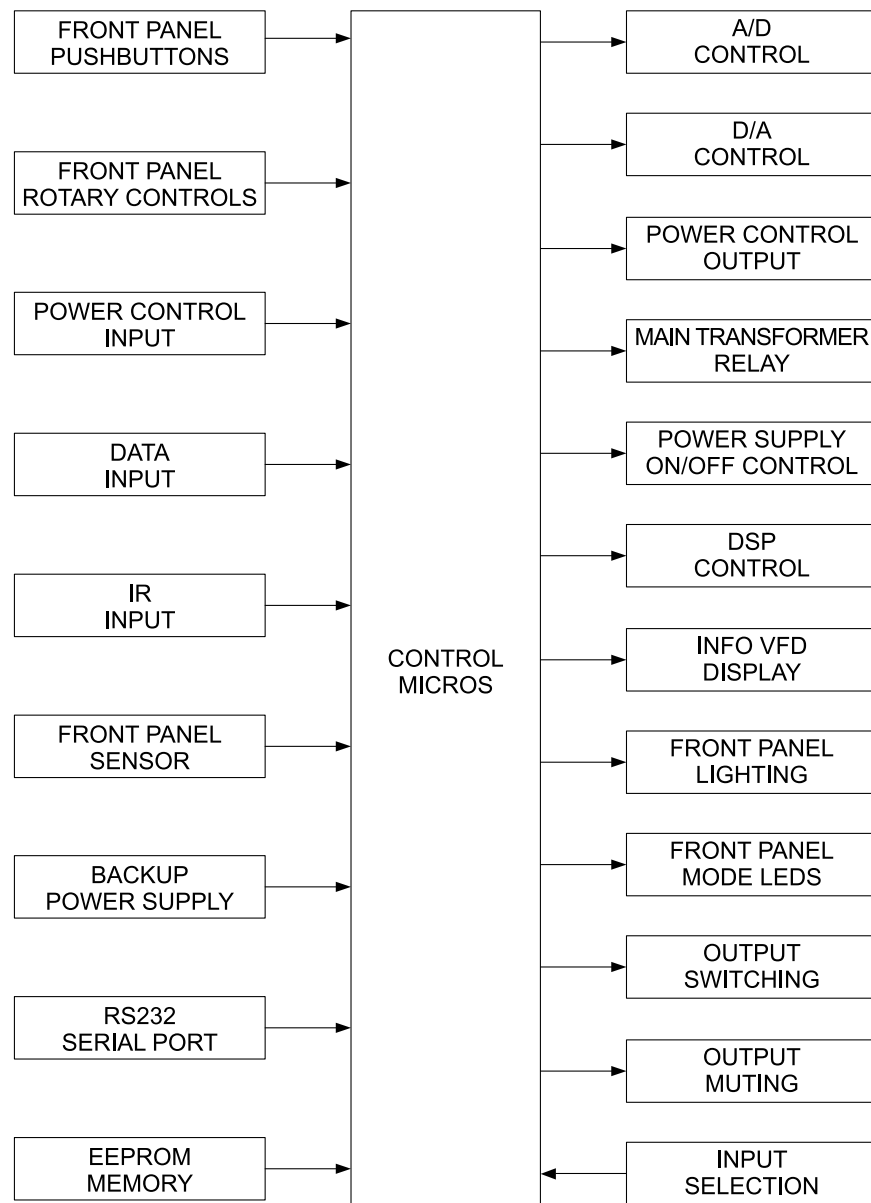


SECTION LOCATIONS

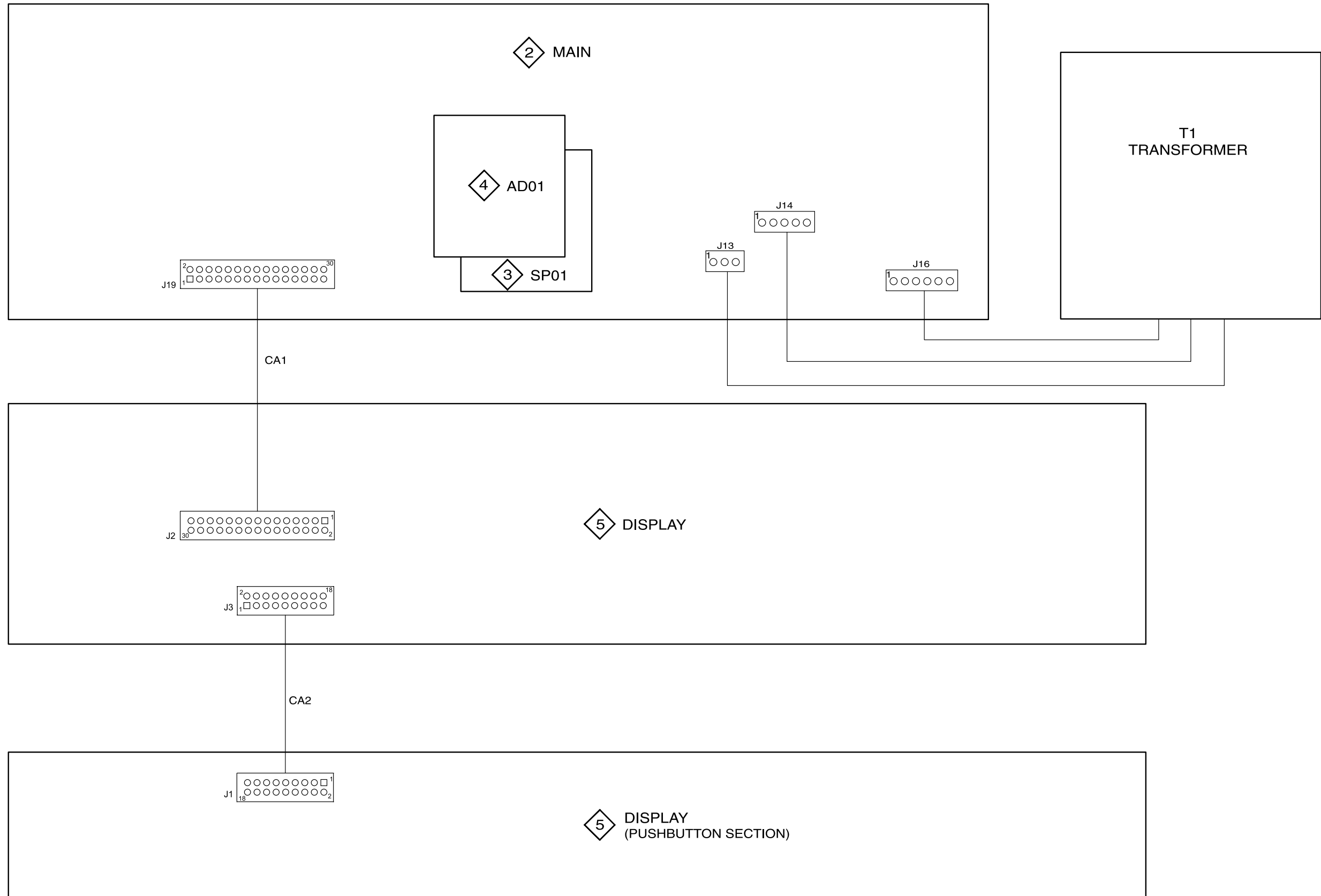


NOTES

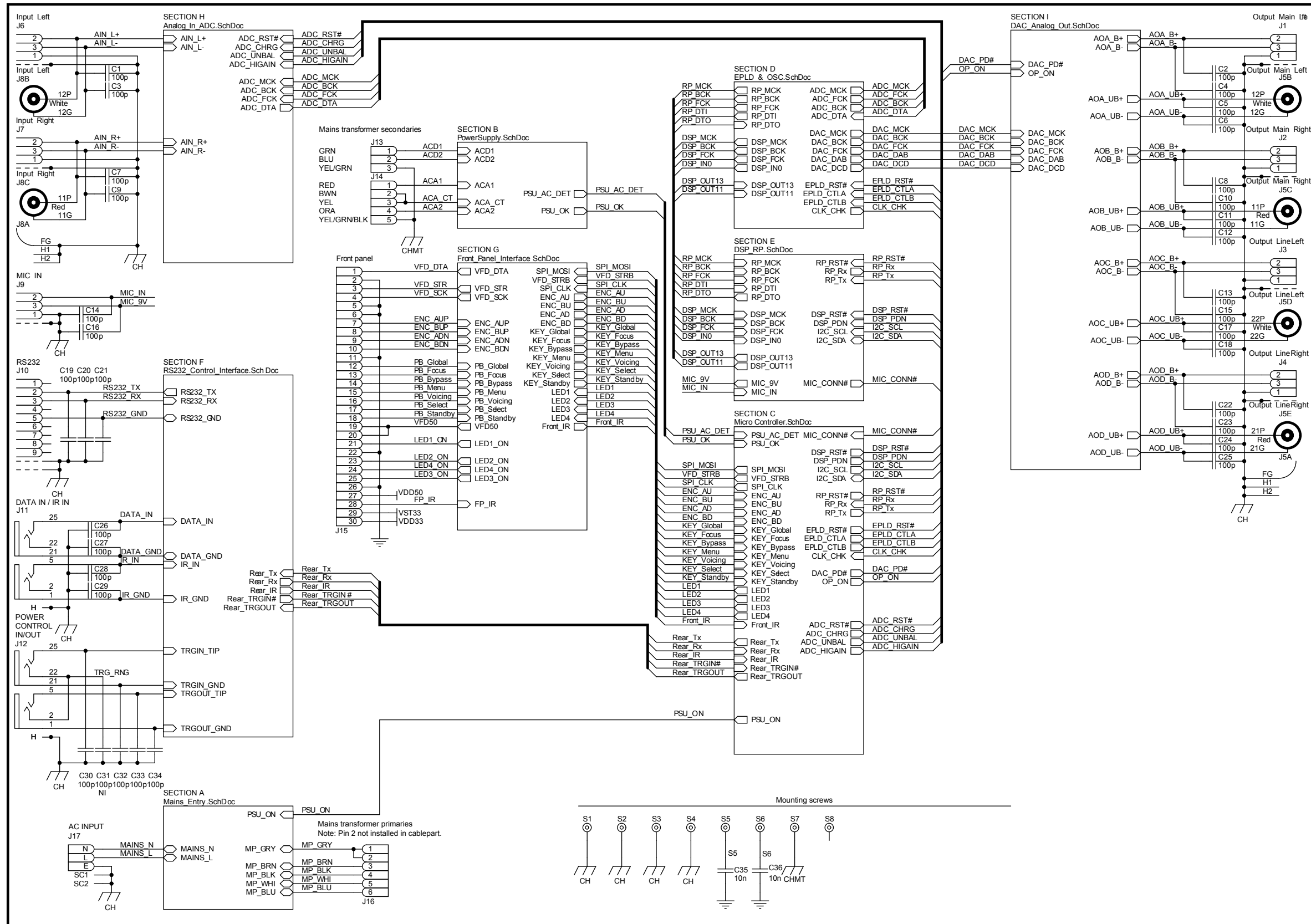
BLOCK DIAGRAM



1 INTERCONNECT

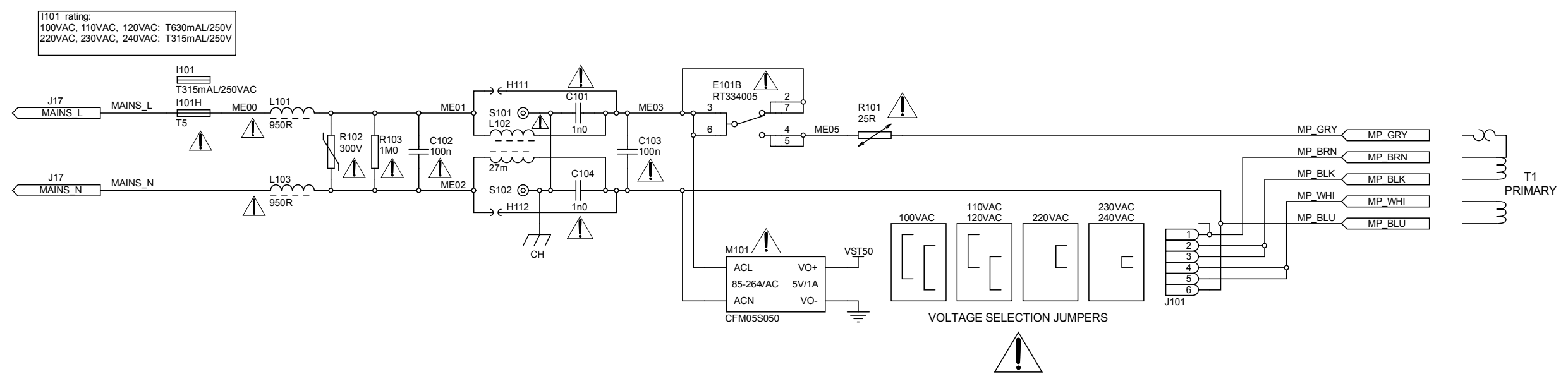


2 MB16G MAIN SCH 1 of 11



2 MB16G MAIN SCH 2 of 11

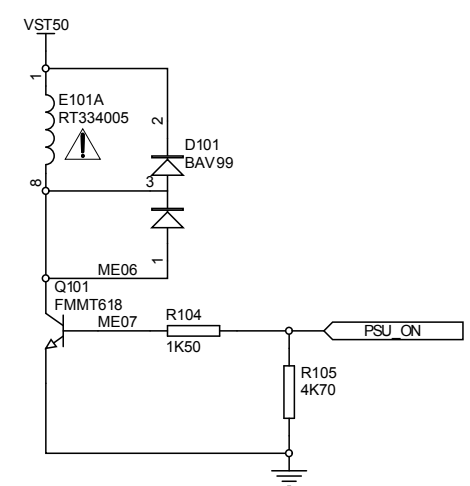
SECTION A: MAINS ENTRY



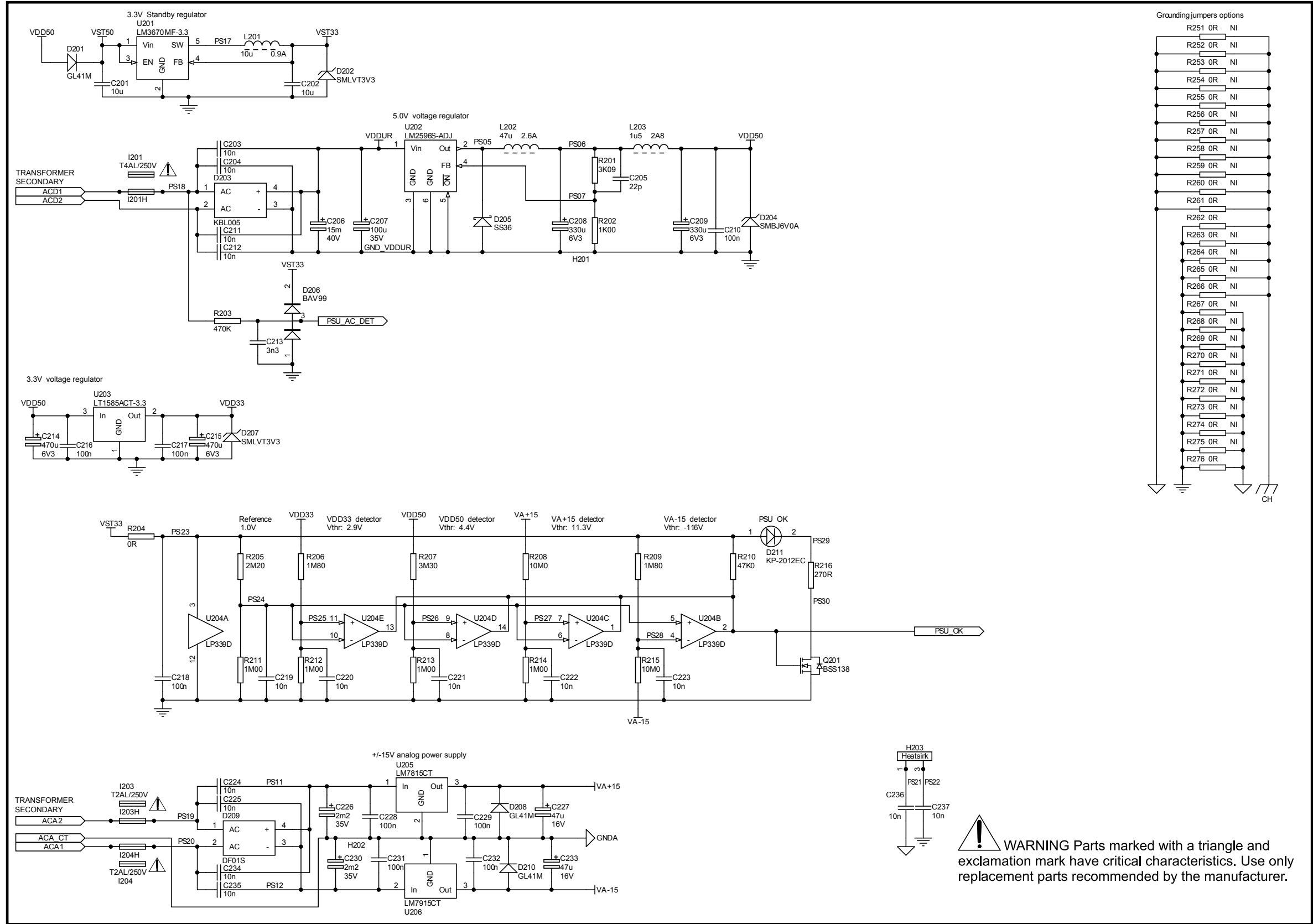
I101 rating:
 100VAC, 110VAC, 120VAC: T630mAL/250V
 220VAC, 230VAC, 240VAC: T315mAL/250V

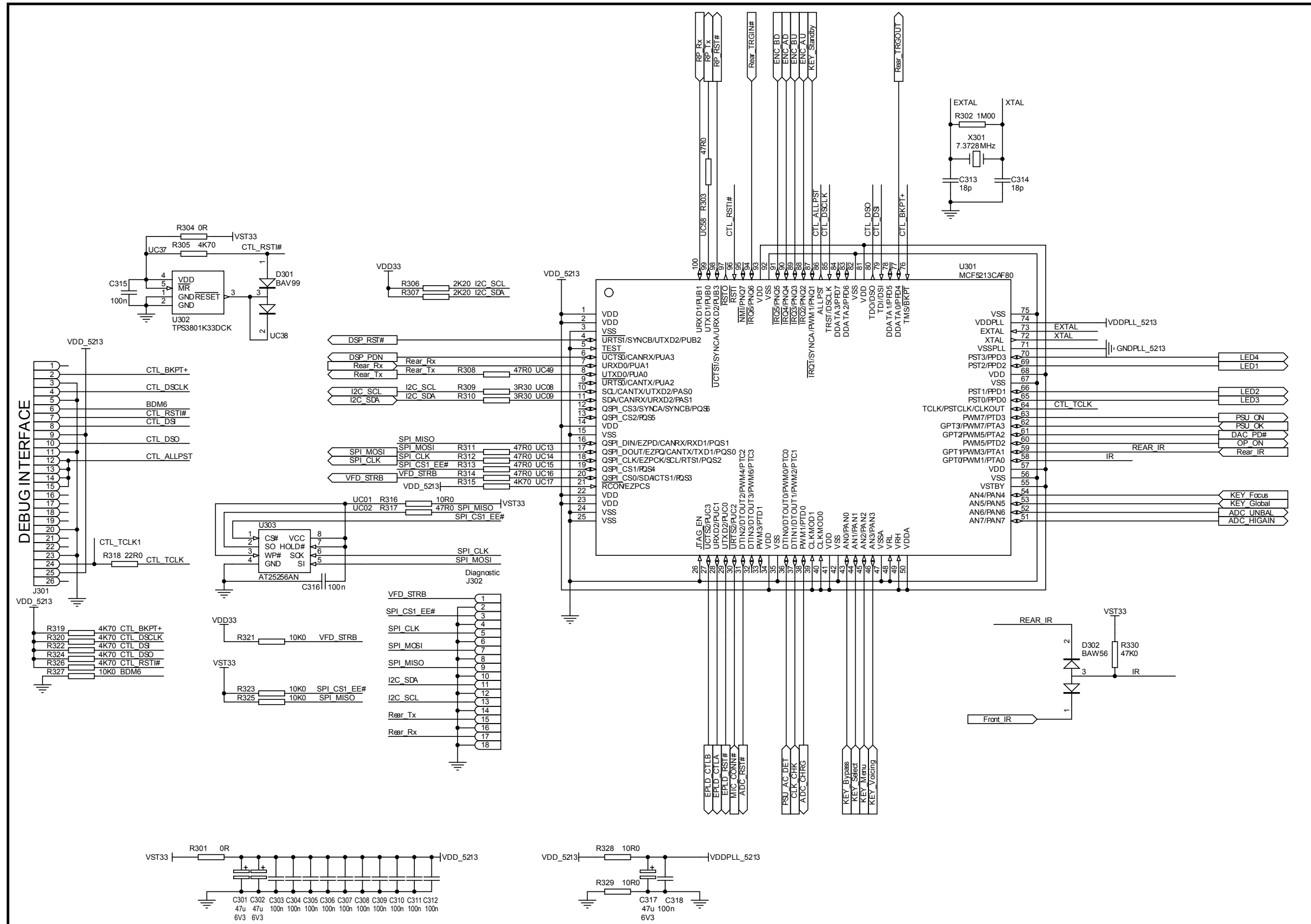
- MainsNF (J) MAINS_L
- Mains (J) MAINS_N
- Mains (J) ME00
- Mains (J) ME01
- Mains (J) ME02
- Mains (J) ME03
- Mains (J) ME05
- Mains (J) MP_GRY
- Mains (J) MP_BRN
- Mains (J) MP_BLK
- Mains (J) MP_WHI
- Mains (J) MP_BLU

WARNING Parts marked with a triangle and exclamation mark have critical characteristics. Use only replacement parts recommended by the manufacturer.

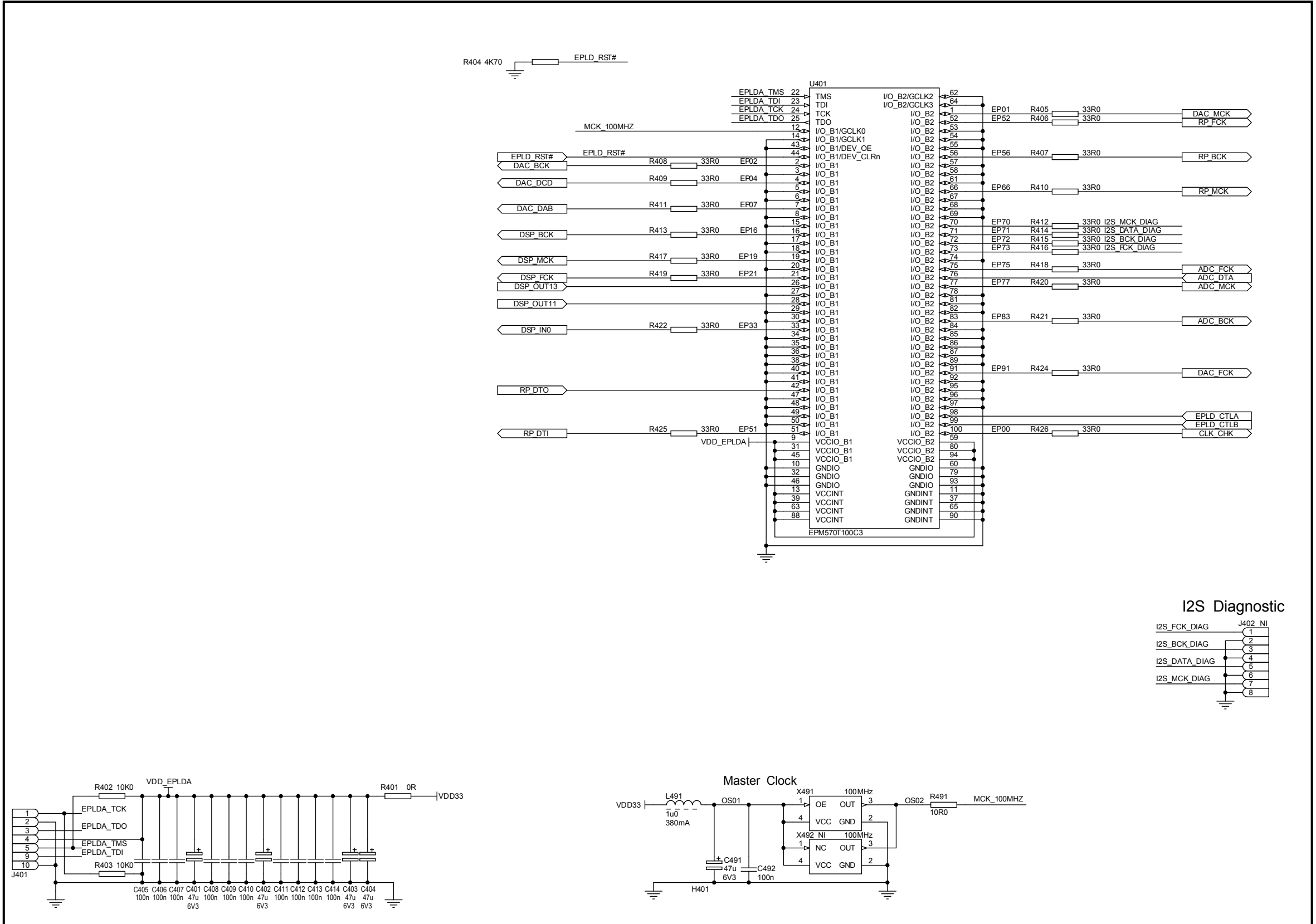


2 MB16G MAIN SCH 3 of 11
SECTION B: POWER SUPPLY

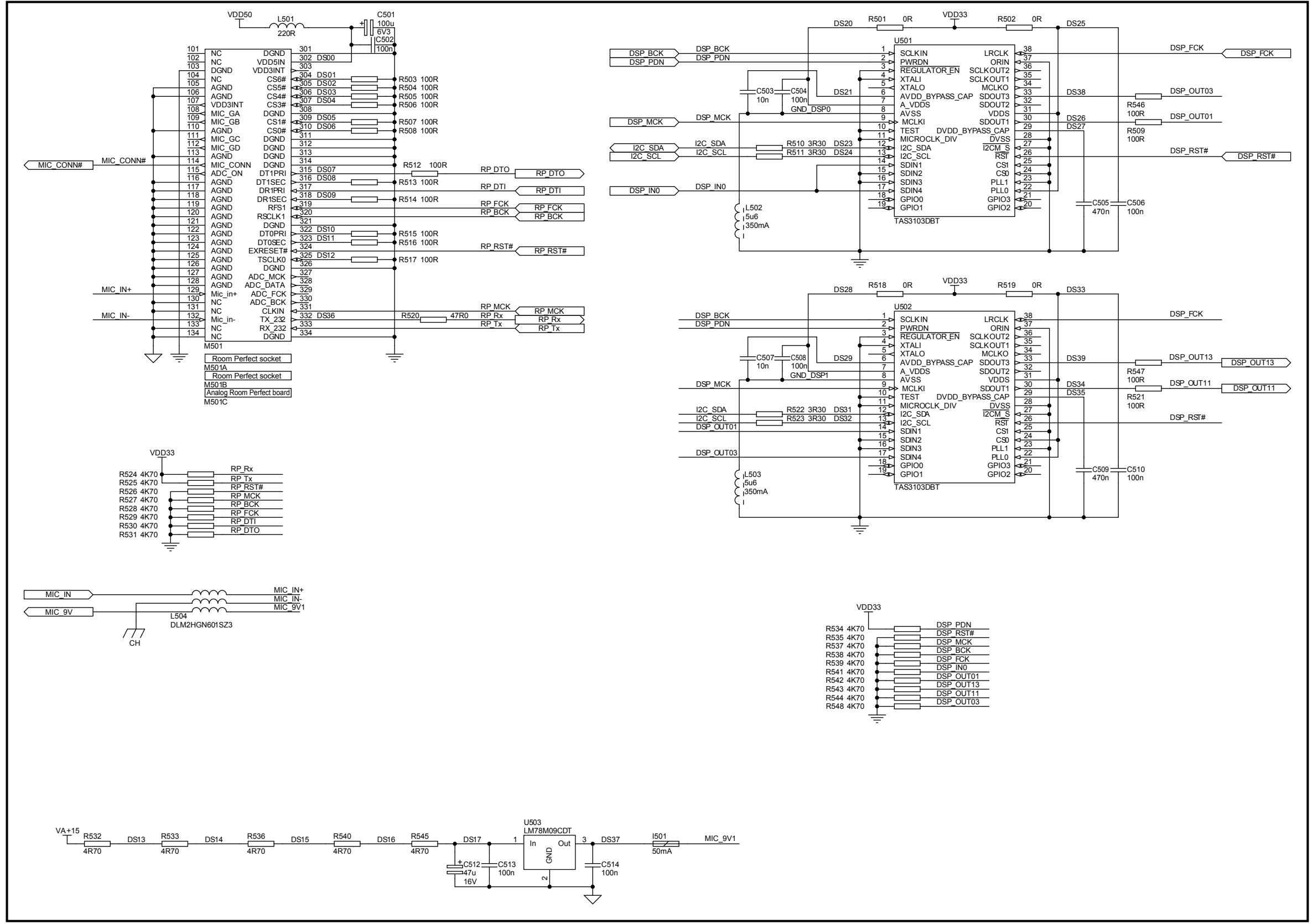




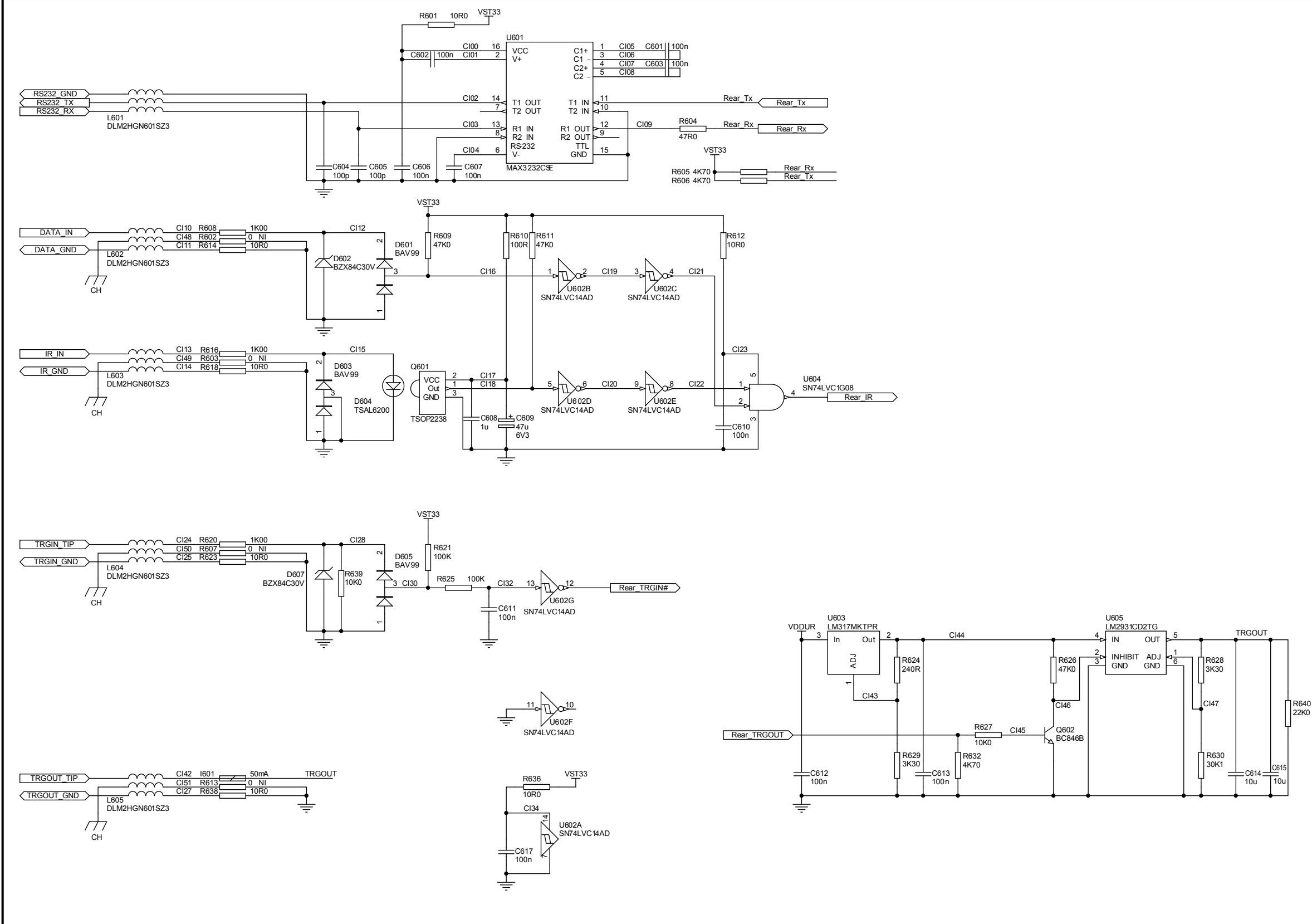
2 MB16G MAIN SCH 5 of 11
SECTION D: EPLO AND OSC



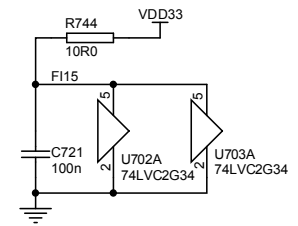
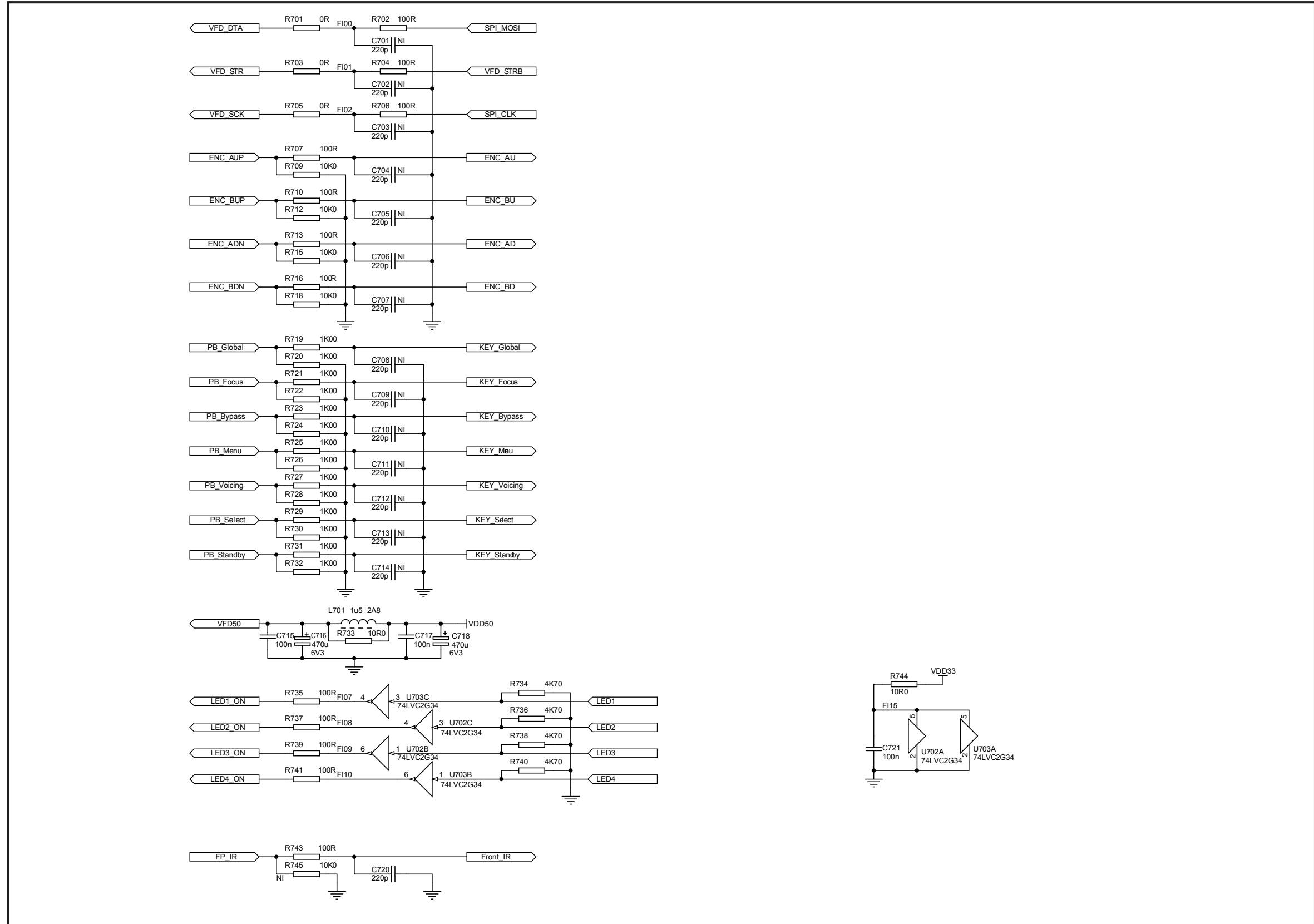
2 MB16G MAIN SCH 6 of 11
SECTION E: DSP RP



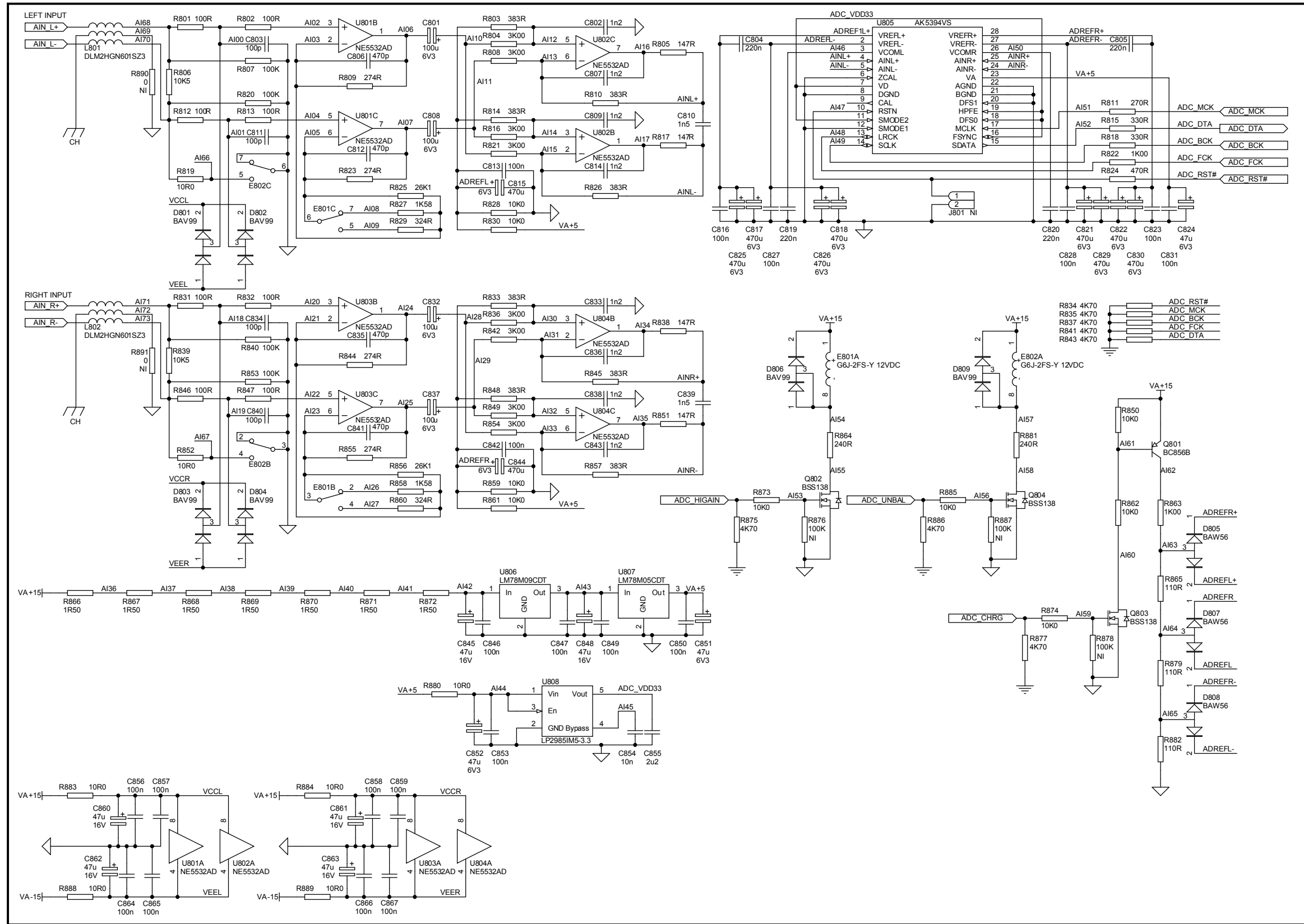
2 MB16G MAIN SCH 7 of 11
SECTION F: RS232 CONTROL INTERFACE



SECTION G: FRONT PANEL INTERFACE

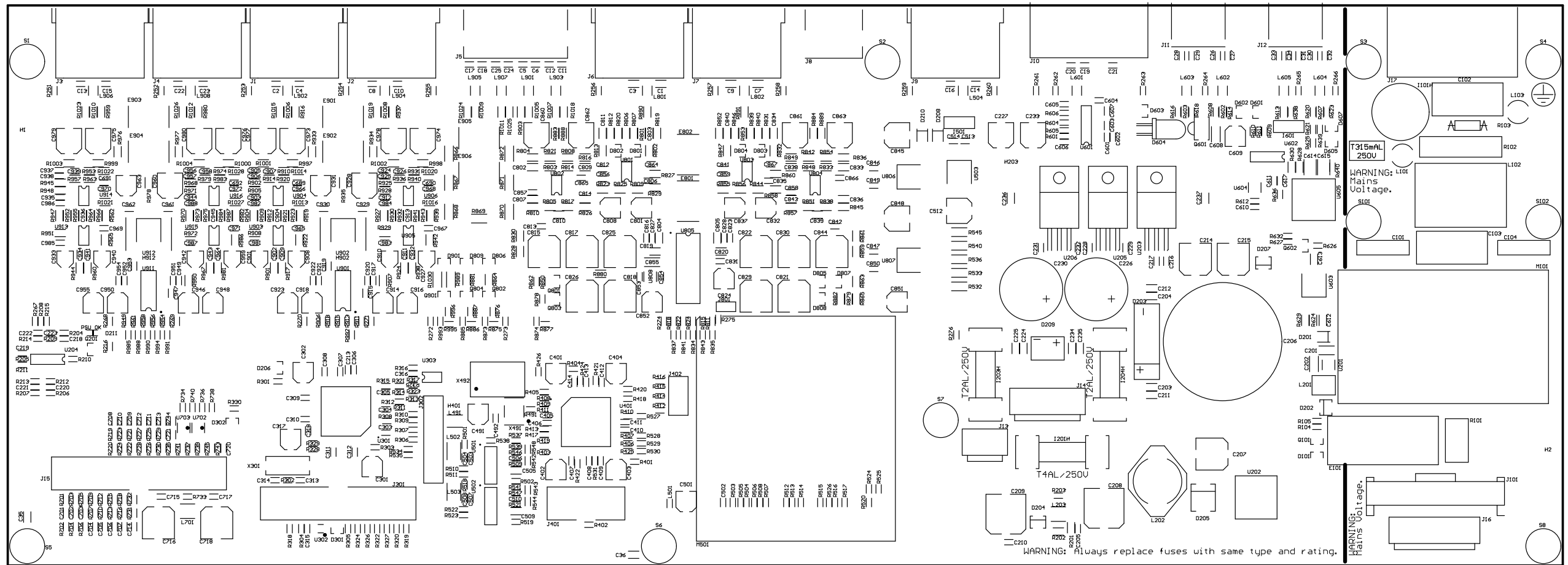


2 MB16G MAIN SCH 9 of 11
SECTION H: ANALOG IN ADC

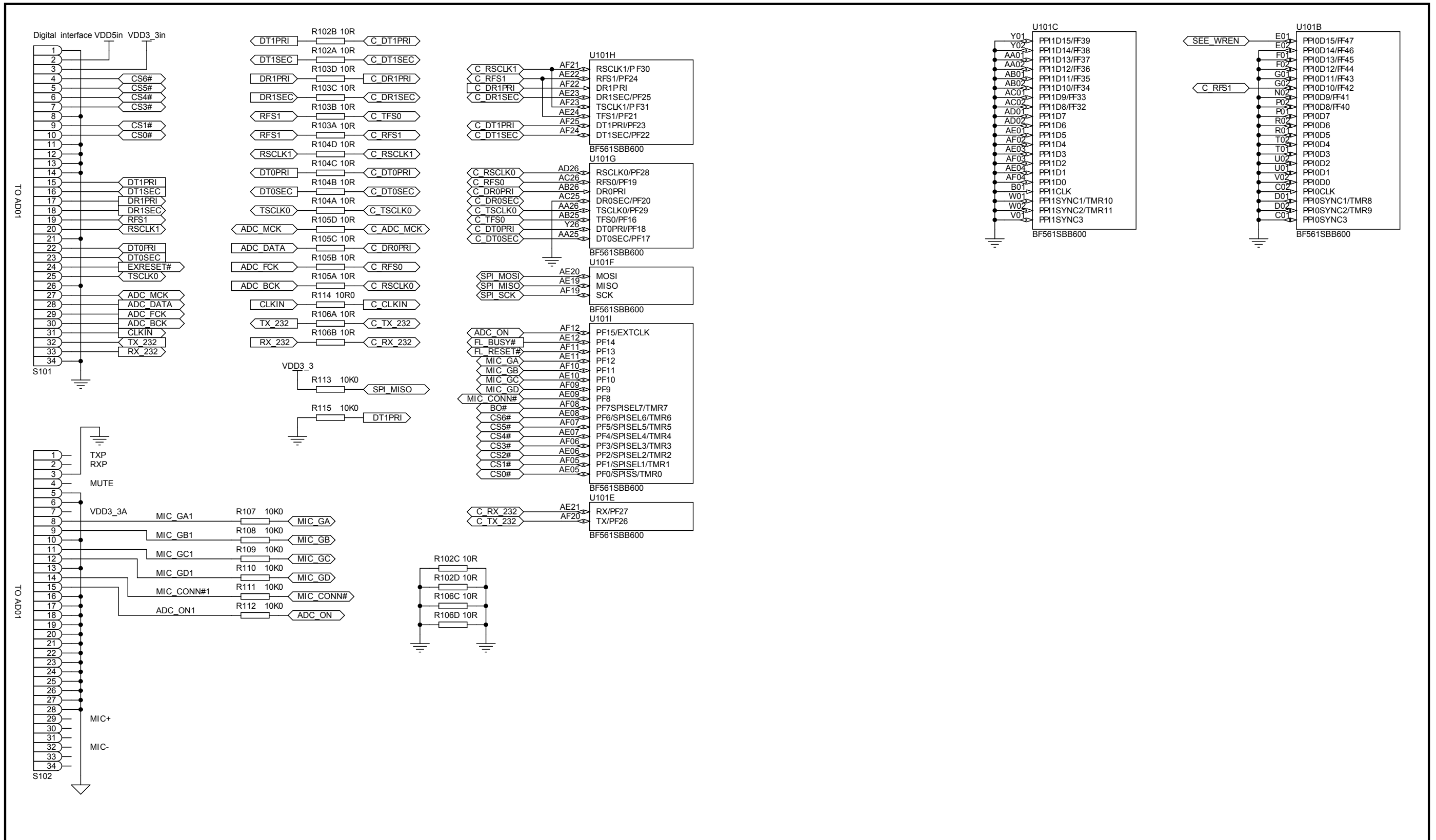


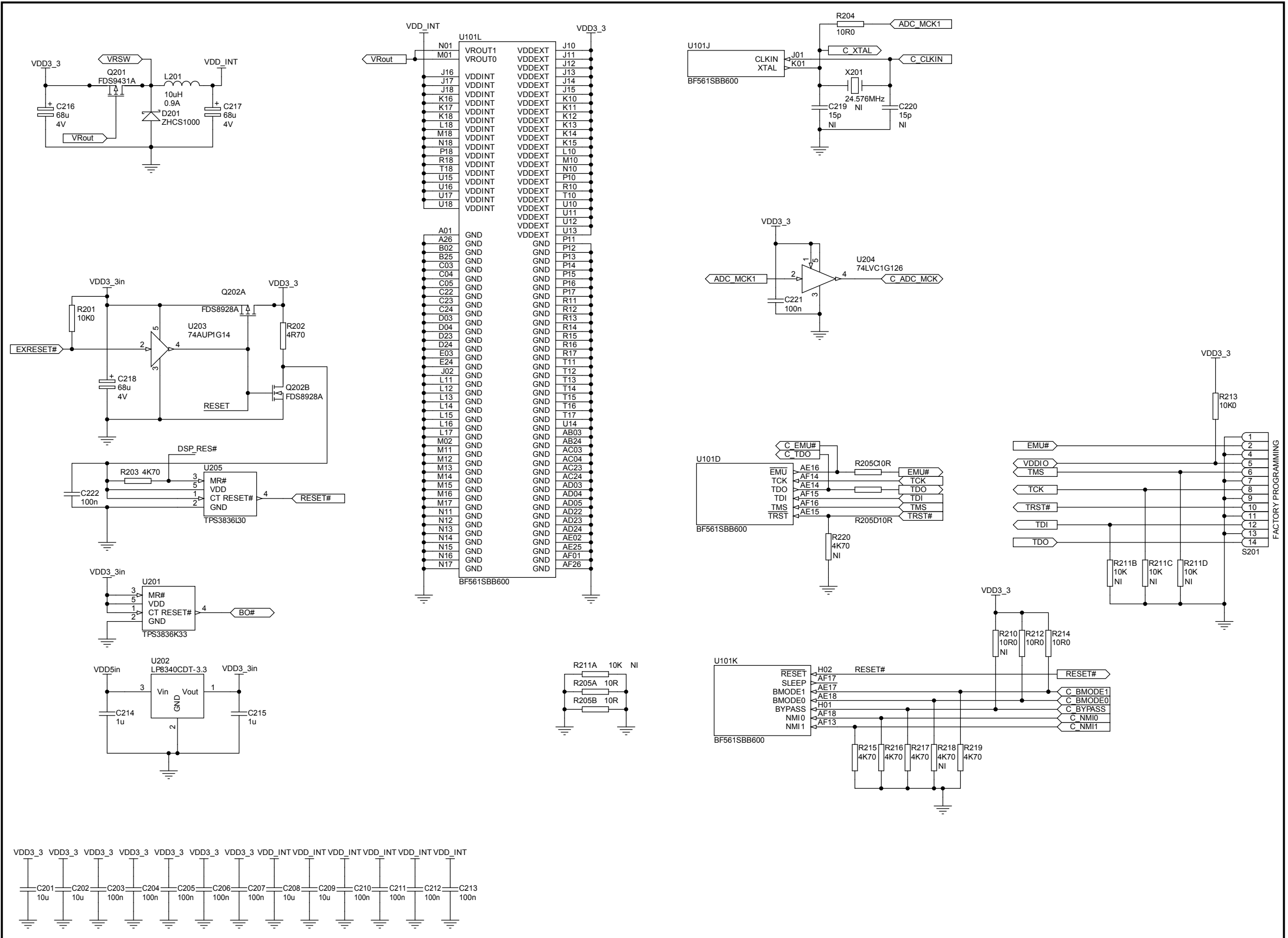
2 MB16G MAIN SCH 11 of 11 and PCB

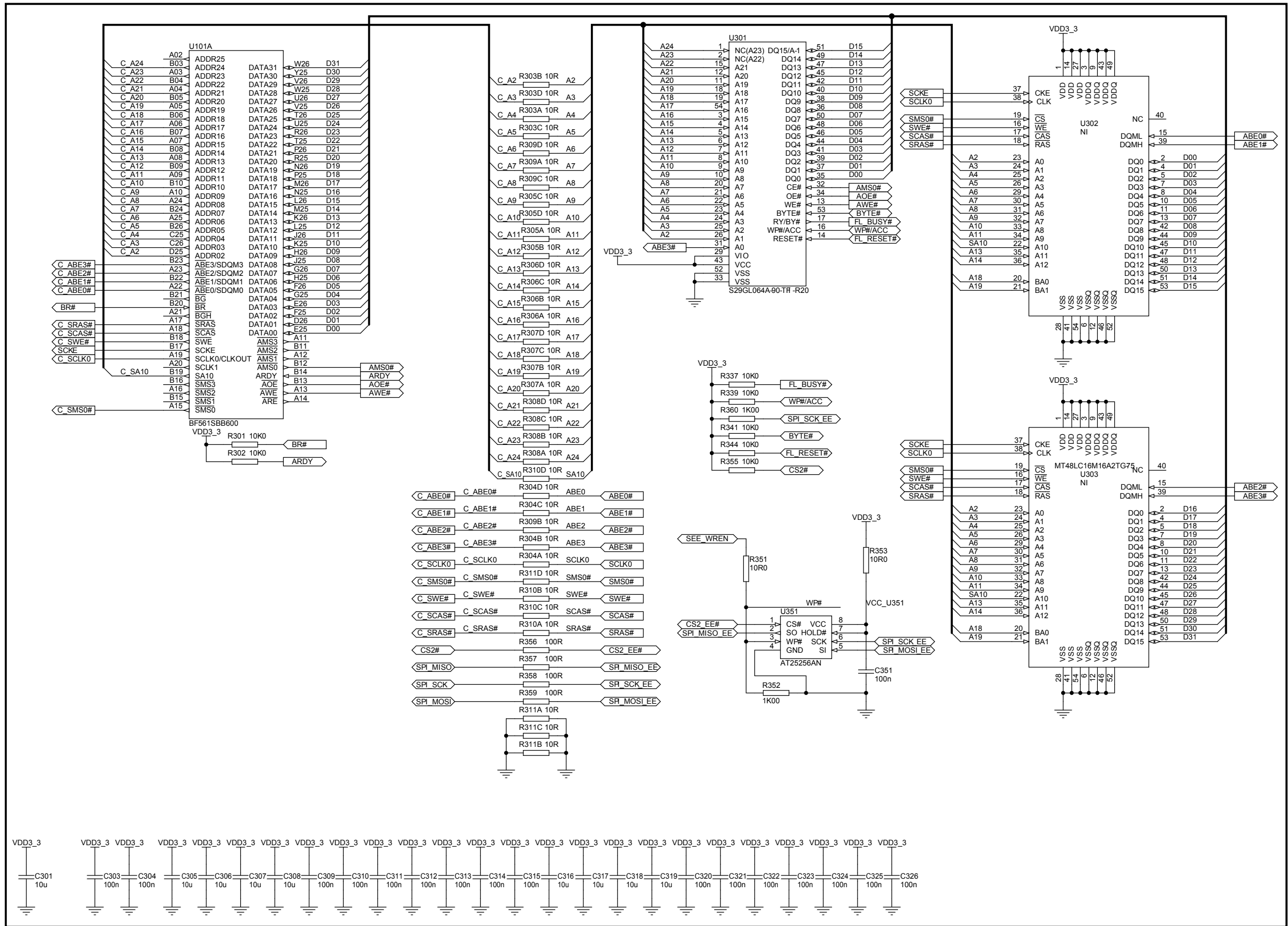
- J6: Balanced Input Left.
Connector: XLR3F.
1: Chassis.
2: In +.
3: In -.
Shell: Chassis.
- J8 upper: Unbalanced Input Left.
Connector: RCA.
Ring: In - (10R to GND).
Tip: In +.
- J7: Balanced Input Right.
Connector: XLR3F.
1: Chassis.
2: In +.
3: In -.
Shell: Chassis.
- J8 lower: Unbalanced Input Right.
Connector: RCA.
Ring: In - (10R to GND).
Tip: In +.
- J9: Microphone Input.
Connector: XLR3F.
1: Chassis.
2: Mic. Signal.
3: Mic. +9V.
Shell: Chassis.
- J10: RS-232 Interface
Connector: DB-9F.
2: MEN220 Tx.
3: MEN220 Rx.
Shell: Chassis.
- J11 upper: Remote Data In.
Connector: 35mm jack.
Tip: Data In.
GND: GND (via 10R).
- J11 lower: Remote IR In.
Connector: 35mm jack.
Tip: IR In.
GND: GND (via 10R).
- J12 upper: Trig In.
Connector: 35mm jack.
Tip: Trig In.
Ring: J12 upper Ring
GND: GND (via 10R).
- J12 lower: Trig Out.
Connector: 35mm jack.
Tip: Trig Out.
Ring: J12 upper Ring
GND: GND (via 10R).
- J17: Mains In.
Connector: IEC320.
L: Mains Phase
N: Mains Neutral.
E: Safety Earth.
- J13: Mains Transformer Secondary for Digital Section.
Connector: JST VH-3.
1: Secondary 1(Green).
2: Secondary 1(Blue).
3: Static Shield 1 (Yellow/Green).
- J14: Mains Transformer Secondary for Analog Section.
Connector: JST VH-5.
1: Secondary 2(Red).
2: Secondary 2(Brown).
3: Secondary 3(Yellow).
4: Secondary 3(Orange).
5: Static Shield 2 (Yellow/Green/Black).
- J15: Front Panel Interface.
Connector: Box Connector, 2x15 pins.
1: VFD Data.
2: GND.
3: VFD_STR.
4: VFD_SCK.
5: GND.
6: GND.
7: Encoder A Up.
8: Encoder B Up.
9: Encoder A Down.
10: Encoder B Down.
11: GND.
12: Push Button Global.
13: Push Button Focus.
14: Push Button Bypass.
15: Push Button Menu.
16: Push Button Voicing.
17: Push Button Select.
18: Push Button Standby.
19: +5V for VFD.
20: +5V for VFD.
21: LED 1 On.
22: GND.
23: LED 2 On.
24: LED 4 On.
25: LED 3 On.
26: GND.
27: +5V Supply (Inactive in Standby).
28: IR from Front Panel.
29: +3.3V Supply (Active in Standby).
30: +3.3V Supply (Inactive in Standby).
- J16: Mains Transformer Primaries.
Connector: JST VH-6.
1: Thermal Fuse (Gray).
2: Thermal Fuse (Connected on PCB, but not in header).
3: Primary 1(Brown).
4: Primary 1(Black).
5: Primary 2(White).
6: Primary 2(Blue).
- J1: Balanced Output Main Left.
Connector: XLR3M.
1: Chassis.
2: Out +.
3: Out -.
Shell: Chassis.
- J5 upper 1: Unbalanced Output Main Left.
Connector: RCA.
Ring: GND.
Tip: Out +.
- J2: Balanced Output Main Right.
Connector: XLR3M.
1: Chassis.
2: Out +.
3: Out -.
Shell: Chassis.
- J5 lower 1: Unbalanced Output Main Right.
Connector: RCA.
Ring: GND.
Tip: Out +.
- J3 Balanced Output Line Left.
Connector: XLR3M.
1: Chassis.
2: Out +.
3: Out -.
Shell: Chassis.
- J5 upper 2: Unbalanced Output Line Left.
Connector: RCA.
Ring: GND.
Tip: Out +.
- J4: Balanced Output Line Right.
Connector: XLR3M.
1: Chassis.
2: Out +.
3: Out -.
Shell: Chassis.
- J5 lower 2: Unbalanced Output Line Right.
Connector: RCA.
Ring: GND.
Tip: Out +.



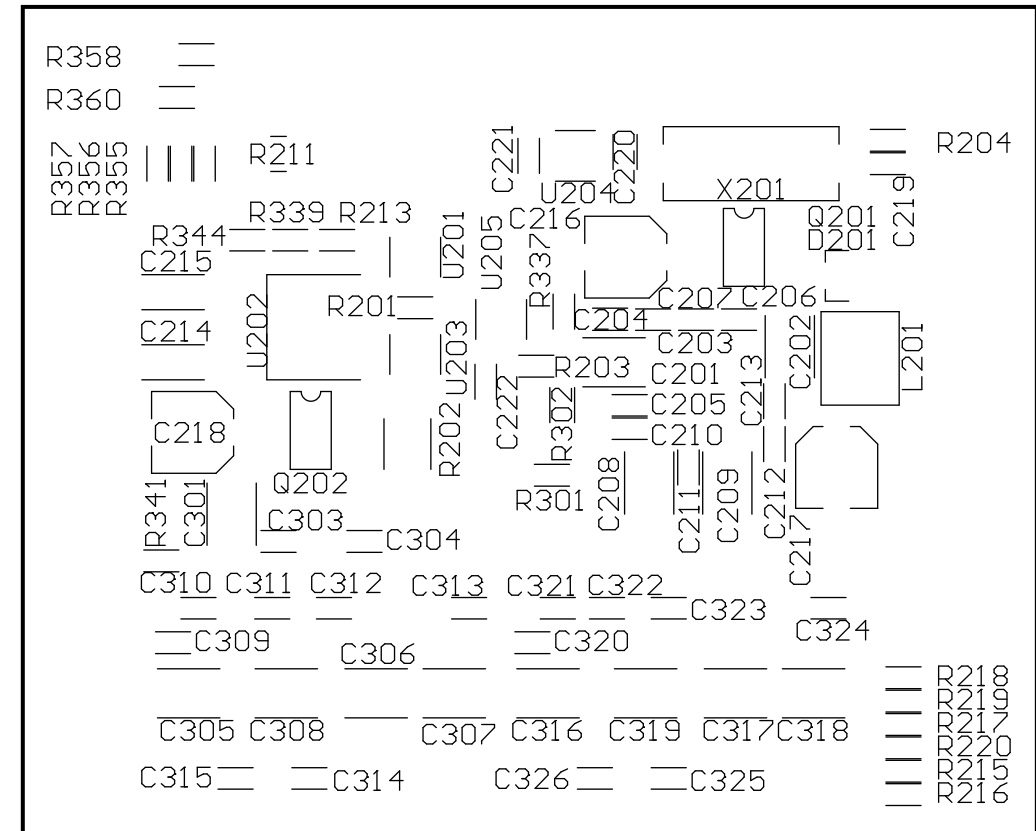
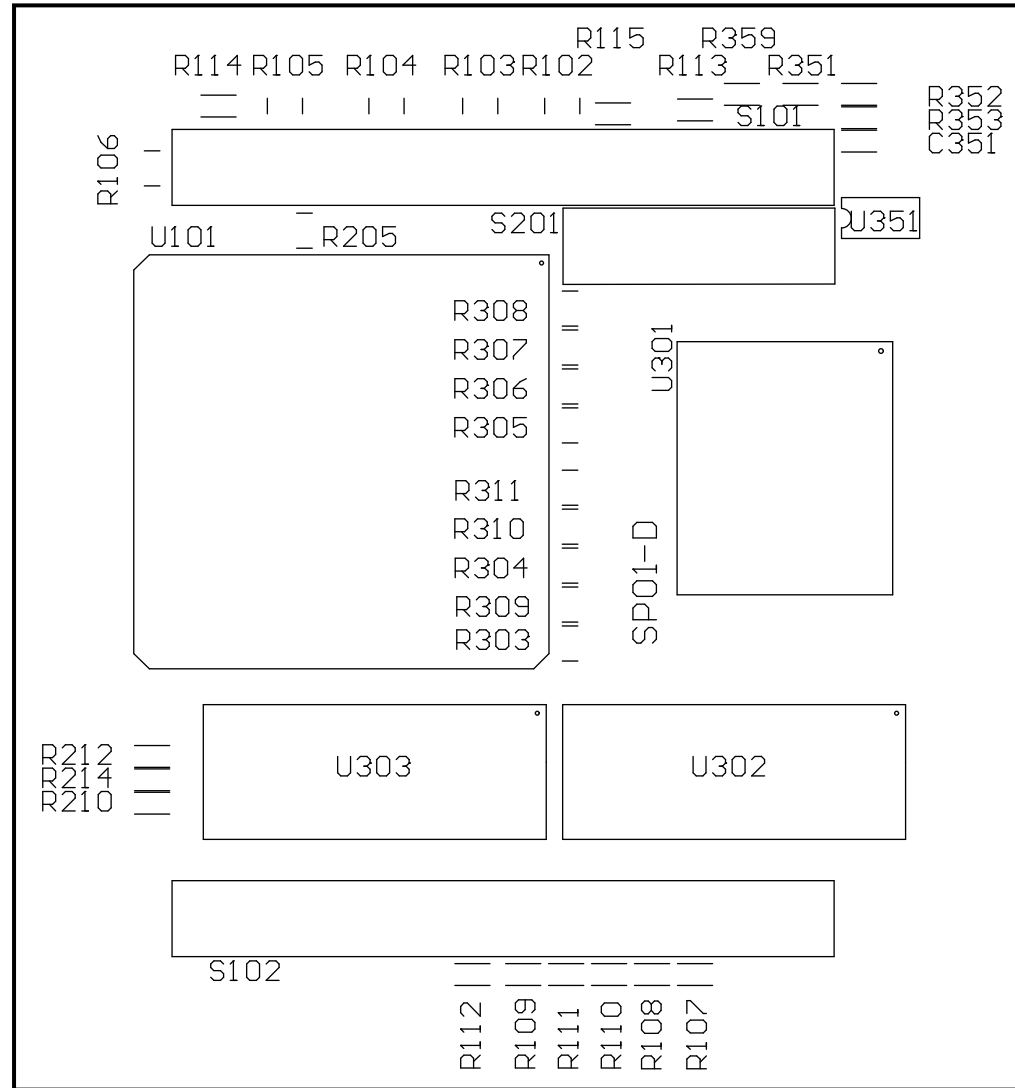
3 SP01 Sch 1 of 3



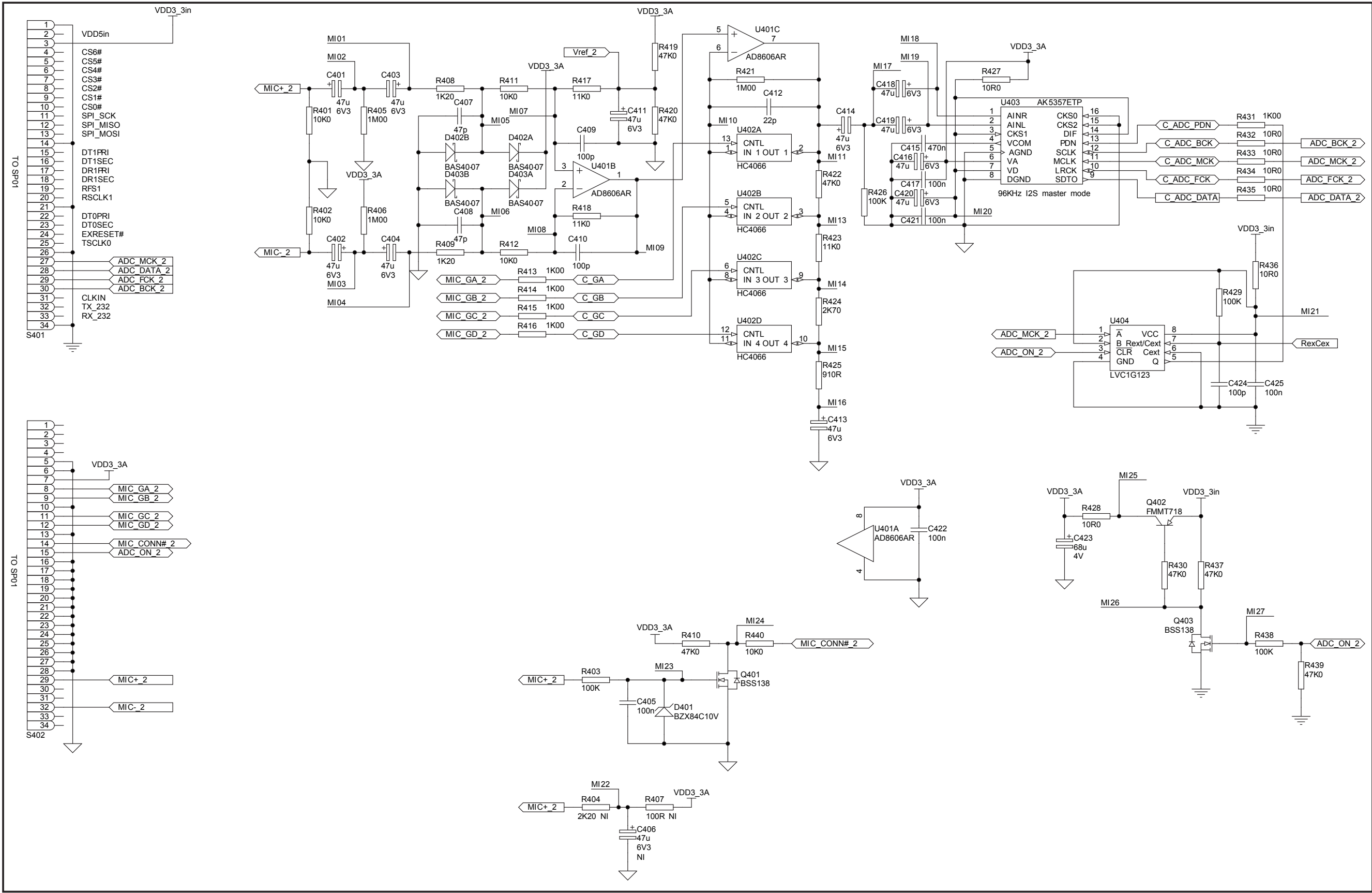




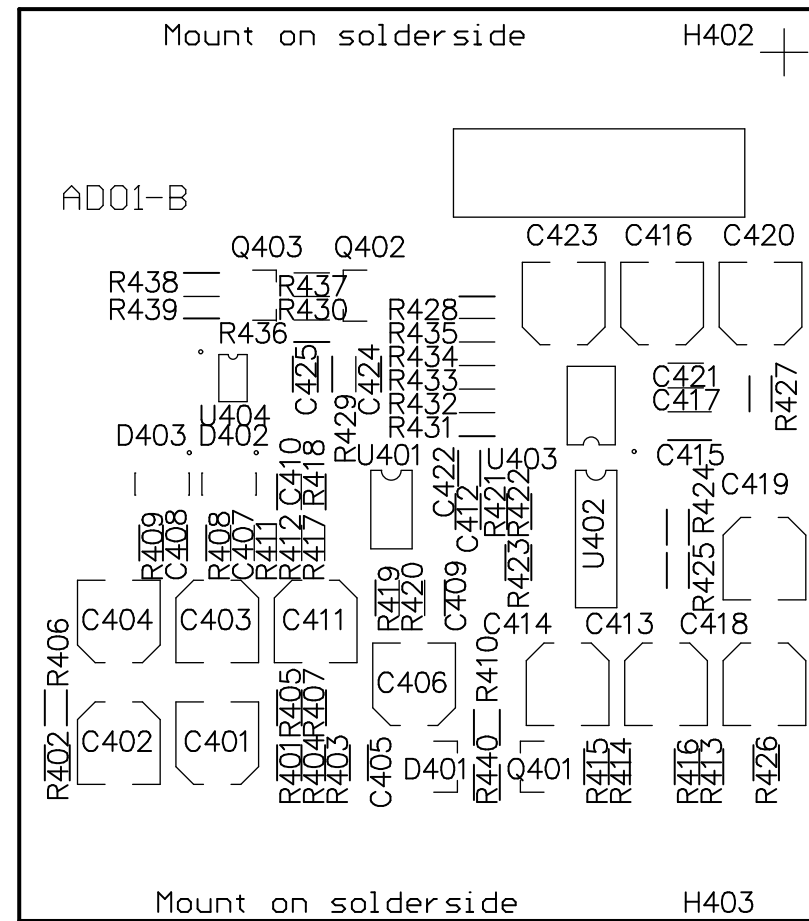
3 SP01 PCB



4 AD01 SCH

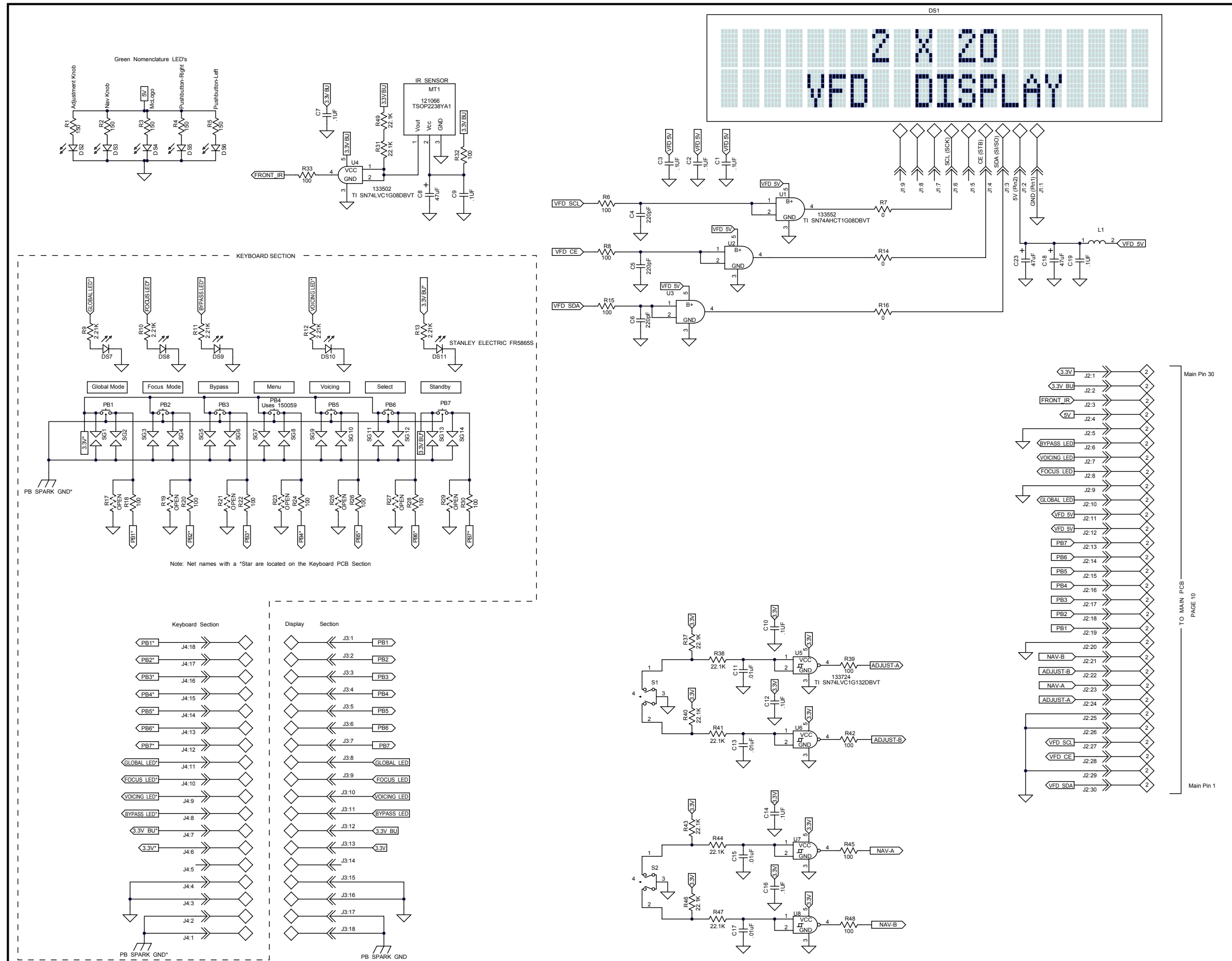


4 AD01 PCB



S401 and S402 are mounted on the solderside of the PCB.

5 DISPLAY/KEYBOARD 750952 SCH



NOTES

PARTS LIST (Cont'd.)

② MB16G PCB (Cont'd.)

Ref. No. Description

C821	Capacitor, SMD 8.3x10.2mm, AL, 2000hrs, 85C, 470uF, 6.3V, 20%
C822	Capacitor, SMD 8.3x10.2mm, AL, 2000hrs, 85C, 470uF, 6.3V, 20%
C823	Capacitor, SMD0603, X7R, 100nF, 25V, 20%
C824	Capacitor, SMD 5.3x5.4mm, AL, 2000hrs, 85C, 47uF, 6.3V, 20%
C825	Capacitor, SMD 8.3x10.2mm, AL, 2000hrs, 85C, 470uF, 6.3V, 20%
C826	Capacitor, SMD 8.3x10.2mm, AL, 2000hrs, 85C, 470uF, 6.3V, 20%
C827	Capacitor, SMD0603, X7R, 100nF, 25V, 20%
C828	Capacitor, SMD0603, X7R, 100nF, 25V, 20%
C829	Capacitor, SMD 8.3x10.2mm, AL, 2000hrs, 85C, 470uF, 6.3V, 20%
C830	Capacitor, SMD 8.3x10.2mm, AL, 2000hrs, 85C, 470uF, 6.3V, 20%
C831	Capacitor, SMD0603, X7R, 100nF, 25V, 20%
C832	Capacitor, SMD 5.3x5.4mm, AL, 2000hrs, 85C, 100uF, 6.3V, 20%
C833	Capacitor, SMD0805, NP0, 1.2nF, 50V, 2%
C834	Capacitor, SMD0805, NP0, 100pF, 50V, 2%
C835	Capacitor, SMD0603, NP0, 470pF, 50V, 5%
C836	Capacitor, SMD0805, NP0, 1.2nF, 50V, 2%
C837	Capacitor, SMD 5.3x5.4mm, AL, 2000hrs, 85C, 100uF, 6.3V, 20%
C838	Capacitor, SMD0805, NP0, 1.2nF, 50V, 2%
C839	Capacitor, SMD0805, NP0, 1.5nF, 50V, 2%
C840	Capacitor, SMD0805, NP0, 100pF, 50V, 2%
C841	Capacitor, SMD0603, NP0, 470pF, 50V, 5%
C842	Capacitor, SMD0603, X7R, 100nF, 25V, 20%
C843	Capacitor, SMD0805, NP0, 1.2nF, 50V, 2%
C844	Capacitor, SMD 8.3x10.2mm, AL, 2000hrs, 85C, 470uF, 6.3V, 20%
C845	Capacitor, SMD 6.6x5.4mm, AL, 2000hrs, 85C, 47uF, 16V, 20%
C846	Capacitor, SMD0603, X7R, 100nF, 25V, 20%
C847	Capacitor, SMD0603, X7R, 100nF, 25V, 20%
C848	Capacitor, SMD 6.6x5.4mm, AL, 2000hrs, 85C, 47uF, 16V, 20%
C849	Capacitor, SMD0603, X7R, 100nF, 25V, 20%
C850	Capacitor, SMD0603, X7R, 100nF, 25V, 20%
C851	Capacitor, SMD 5.3x5.4mm, AL, 2000hrs, 85C, 47uF, 6.3V, 20%
C852	Capacitor, SMD 5.3x5.4mm, AL, 2000hrs, 85C, 47uF, 6.3V, 20%
C853	Capacitor, SMD0603, X7R, 100nF, 25V, 20%
C854	Capacitor, SMD0603, X7R, 10nF, 25V, 10%
C855	Capacitor, SMD1206, X7R, 2.2uF, 10V, 20%
C856	Capacitor, SMD0603, X7R, 100nF, 25V, 20%
C857	Capacitor, SMD0603, X7R, 100nF, 25V, 20%
C858	Capacitor, SMD0603, X7R, 100nF, 25V, 20%
C859	Capacitor, SMD0603, X7R, 100nF, 25V, 20%
C860	Capacitor, SMD 6.6x5.4mm, AL, 2000hrs, 85C, 47uF, 16V, 20%
C861	Capacitor, SMD 6.6x5.4mm, AL, 2000hrs, 85C, 47uF, 16V, 20%
C862	Capacitor, SMD 6.6x5.4mm, AL, 2000hrs, 85C, 47uF, 16V, 20%
C863	Capacitor, SMD 6.6x5.4mm, AL, 2000hrs, 85C, 47uF, 16V, 20%
C864	Capacitor, SMD0603, X7R, 100nF, 25V, 20%
C865	Capacitor, SMD0603, X7R, 100nF, 25V, 20%
C866	Capacitor, SMD0603, X7R, 100nF, 25V, 20%
C867	Capacitor, SMD0603, X7R, 100nF, 25V, 20%
C901	Capacitor, SMD 4.3x5.4mm, AL, 2000hrs, 85C, 22uF, 6.3V, 20%
C902	Capacitor, SMD0603, NP0, 470pF, 50V, 5%
C903	Capacitor, SMD0603, NP0, 470pF, 50V, 5%
C904	Capacitor, SMD0805, NP0, 220pF, 100V, 5%
C905	Capacitor, SMD0603, NP0, 330pF, 50V, 5%
C906	Capacitor, SMD0603, NP0, 470pF, 50V, 5%
C907	Capacitor, SMD0603, NP0, 470pF, 50V, 5%
C908	Capacitor, SMD 4.3x5.4mm, AL, 2000hrs, 85C, 22uF, 6.3V, 20%
C909	Capacitor, SMD0603, NP0, 470pF, 50V, 5%
C910	Capacitor, SMD 4.3x5.4mm, AL, 2000hrs, 85C, 22uF, 6.3V, 20%
C911	Capacitor, SMD0603, NP0, 470pF, 50V, 5%
C912	Capacitor, SMD0603, NP0, 470pF, 50V, 5%
C913	Capacitor, SMD0805, NP0, 220pF, 100V, 5%
C914	Capacitor, SMD 5.3x5.4mm, AL, 2000hrs, 85C, 47uF, 6.3V, 20%
C915	Capacitor, SMD0603, X7R, 100nF, 25V, 20%
C916	Capacitor, SMD 5.3x5.4mm, AL, 2000hrs, 85C, 47uF, 6.3V, 20%
C917	Capacitor, SMD0603, X7R, 100nF, 25V, 20%

AVL

Panasonic	EEE0JA471P
Panasonic	EEE0JA471P
AVX	06033C104MAT2A
Nichicon	UWX0J470MCL1GB
Panasonic	EEE0JA471P
Panasonic	EEE0JA471P
AVX	06033C104MAT2A
AVX	06033C104MAT2A
Panasonic	EEE0JA471P
Panasonic	EEE0JA471P
AVX	06033C104MAT2A
Nichicon	UWR0J101MCL1GB
AVX	08055A122GAT2A
AVX	08055A101GAT2A
AVX	06035A471JAT2A
AVX	08055A122GAT2A
Nichicon	UWR0J101MCL1GB
AVX	08055A122GAT2A
AVX	08055A152GAT2A
AVX	08055A101GAT2A
AVX	06035A471JAT2A
AVX	06033C104MAT2A
AVX	08055A122GAT2A
Panasonic	EEE0JA471P
Nichicon	UWX1C470MCL1GB
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AVX	06033C104MAT2A
Nichicon	UWX1C470MCL1GB
AVX	06033C104MAT2A
Nichicon	UWX0J470MCL1GB
Nichicon	UWX0J470MCL1GB
AVX	06033C104MAT2A
AVX	06033C103KAT2A
AVX	1206YC225MAT2A
AVX	06033C104MAT2A
AVX	06033C104MAT2A
AVX	06033C104MAT2A
AVX	06033C104MAT2A
Nichicon	UWX1C470MCL1GB
Nichicon	UWX1C470MCL1GB
Nichicon	UWX1C470MCL1GB
Nichicon	UWX1C470MCL1GB
AVX	06033C104MAT2A
AVX	06033C104MAT2A
AVX	06033C104MAT2A
AVX	06033C104MAT2A
Nichicon	UWX0J220MCL1GB
AVX	06035A471JAT2A
AVX	06035A471JAT2A
AVX	08051A221JAT2A
AVX	06035A331JAT2A
AVX	06035A471JAT2A
AVX	06035A471JAT2A
Nichicon	UWX0J220MCL1GB
AVX	06035A471JAT2A
Nichicon	UWX0J220MCL1GB
AVX	06035A471JAT2A
AVX	06035A471JAT2A
AVX	08051A221JAT2A
Nichicon	UWX0J470MCL1GB
AVX	06033C104MAT2A
Nichicon	UWX0J470MCL1GB
AVX	06033C104MAT2A

PARTS LIST (Cont'd.)

② MB16G PCB (Cont'd.)

Ref. No. Description

C982	Capacitor, SMD0603, X7R, 100nF, 25V, 20%
C983	Capacitor, SMD0603, X7R, 100nF, 25V, 20%
C984	Capacitor, SMD0603, X7R, 100nF, 25V, 20%
C985	Capacitor, SMD0603, X7R, 100nF, 25V, 20%
C986	Capacitor, SMD0603, X7R, 100nF, 25V, 20%
C987	Capacitor, SMD0603, X7R, 100nF, 25V, 20%
C988	Capacitor, SMD0603, X7R, 100nF, 25V, 20%
D101	Diode, dual, series connected, SMD, 70V, 0.2A, 6nS, SOT-23-3 case, BAV99
D201	Diode, rectifier, single, SMD, 1000V, 1A, DO-213AB case, GL41M
D202	Diode, transient suppressor, single, SMD, 3.3V, 600W, DO-214AA (SMB) case, SMLVT3V3
D203	Diode, rectifier bridge, single phase, TH, 50V, 4A, KBL single-in-line case, KBL005
D204	Diode, transient suppressor, single, SMD, 6V, 600W, DO-214AA (SMB) case, SMBJ6V0A
D205	Diode, schottky, single, SMD, 60V, 3A, 0.75Vf, DO-214AB (SMC) case, SS36
D206	Diode, dual, series connected, SMD, 70V, 0.2A, 6nS, SOT-23-3 case, BAV99
D207	Diode, transient suppressor, single, SMD, 3.3V, 600W, DO-214AA (SMB) case, SMLVT3V3
D208	Diode, rectifier, single, SMD, 1000V, 1A, DO-213AB case, GL41M
D209	Diode, rectifier bridge, single phase, SMD, 100V, 1.5A, SDIP square case, DF01S
D210	Diode, rectifier, single, SMD, 1000V, 1A, DO-213AB case, GL41M
D211	Opto, LED lamp, SMD 2.0x1.25x1.1mm, 1 LEDs, red 625nm, 12.5mcd, KP-2012EC
D301	Diode, dual, series connected, SMD, 70V, 0.2A, 6nS, SOT-23-3 case, BAV99
D302	Diode, dual, common anode, SMD, 70V, 0.2A, 6nS, SOT-23-3 case, BAW56
D601	Diode, dual, series connected, SMD, 70V, 0.2A, 6nS, SOT-23-3 case, BAV99
D602	Diode, zener, single, SMD, 30V, 5%, 0.35W, SOT-23-3 case, BZX84C30V
D603	Diode, dual, series connected, SMD, 70V, 0.2A, 6nS, SOT-23-3 case, BAV99
D604	Opto, IR LED, TH T1-3/4 case, 17deg, 940nm, high pulse current, TSAL6200
D605	Diode, dual, series connected, SMD, 70V, 0.2A, 6nS, SOT-23-3 case, BAV99
D607	Diode, zener, single, SMD, 30V, 5%, 0.35W, SOT-23-3 case, BZX84C30V
D801	Diode, dual, series connected, SMD, 70V, 0.2A, 6nS, SOT-23-3 case, BAV99
D802	Diode, dual, series connected, SMD, 70V, 0.2A, 6nS, SOT-23-3 case, BAV99
D803	Diode, dual, series connected, SMD, 70V, 0.2A, 6nS, SOT-23-3 case, BAV99
D804	Diode, dual, series connected, SMD, 70V, 0.2A, 6nS, SOT-23-3 case, BAV99
D805	Diode, dual, common anode, SMD, 70V, 0.2A, 6nS, SOT-23-3 case, BAW56
D806	Diode, dual, series connected, SMD, 70V, 0.2A, 6nS, SOT-23-3 case, BAV99
D807	Diode, dual, common anode, SMD, 70V, 0.2A, 6nS, SOT-23-3 case, BAW56
D808	Diode, dual, common anode, SMD, 70V, 0.2A, 6nS, SOT-23-3 case, BAW56
D809	Diode, dual, series connected, SMD, 70V, 0.2A, 6nS, SOT-23-3 case, BAV99
D901	Diode, dual, series connected, SMD, 70V, 0.2A, 6nS, SOT-23-3 case, BAV99
E101	Relay, TH 29x12.7x15.7mm, monostable, 5V DC, 80mA, 62R, SPST NO, silver, 250 VAC, 16A, 5KV insulation
E801	Relay, monostable, 12V coil, DPDT, gold contacts, SMD, G6J-2FS-Y 12VDC
E802	Relay, monostable, 12V coil, DPDT, gold contacts, SMD, G6J-2FS-Y 12VDC
E901	Relay, monostable, 12V coil, DPDT, gold contacts, SMD, G6J-2FS-Y 12VDC
E902	Relay, monostable, 12V coil, DPDT, gold contacts, SMD, G6J-2FS-Y 12VDC
E903	Relay, monostable, 12V coil, DPDT, gold contacts, SMD, G6J-2FS-Y 12VDC
E904	Relay, monostable, 12V coil, DPDT, gold contacts, SMD, G6J-2FS-Y 12VDC
E905	Relay, monostable, 12V coil, DPDT, gold contacts, SMD, G6J-2FS-Y 12VDC
E906	Relay, monostable, 12V coil, DPDT, gold contacts, SMD, G6J-2FS-Y 12VDC
H1	Reference hole (not a physical component) included as reference for pick'n'place
H2	Reference hole (not a physical component) included as reference for pick'n'place
H3	Fiducial (not a physical component) included as reference for pick'n'place
H4	Fiducial (not a physical component) included as reference for pick'n'place
H5	Fiducial (not a physical component) included as reference for pick'n'place
H6	Fiducial (not a physical component) included as reference for pick'n'place
H7	Fiducial (not a physical component) included as reference for pick'n'place
H8	Fiducial (not a physical component) included as reference for pick'n'place
H9	Fiducial (not a physical component) included as reference for pick'n'place
H10	Fiducial (not a physical component) included as reference for pick'n'place
H203	Heatsink MB16
H203S1	Screw, M3x16, Pan TX TF Zn Blue
H203S2	Screw, M3x16, Pan TX TF Zn Blue
H203S1a	Nut, M3, St.8, Zn Blue
H203S2a	Nut, M3, St.8, Zn Blue
H902	Heatsink, SMD solder to PCB, TO-252 (D-PAK) case, 25K/W, 20x8.1x9.9mm
H912	Heatsink, SMD solder to PCB, TO-252 (D-PAK) case, 25K/W, 20x8.1x9.9mm
I101	Fuse, plastic, 8.5x8mm radial, slow, T315mAL/250V, IR 35A/250VAC

AVL

AVX 06033C104MAT2A
AVX 06033C104MAT2A
AVX 06033C104MAT2A
AVX 06033C104MAT2A
AVX 06033C104MAT2A
AVX 06033C104MAT2A
Fairchild BAV99
Vishay GL41M
Microsemi SMBJ2K3.3
Fairchild KBL005
Fairchild SMBJ6V0A
General Semiconductor SS36
Fairchild BAV99
Microsemi SMBJ2K3.3
Vishay GL41M
Fairchild DF01S
Vishay GL41M
Kingbright KP-2012EC
Fairchild BAV99
Fairchild BAW56
Fairchild BAV99
Fairchild BZX84C30V
Fairchild BAV99
Vishay TSAL6200
Fairchild BAV99
Fairchild BZX84C30V
Fairchild BAV99
Fairchild BAV99
Fairchild BAV99
Fairchild BAV99
Fairchild BAW56
Fairchild BAV99
Fairchild BAW56
Fairchild BAW56
Fairchild BAV99
Fairchild BAV99
Tyco RT334005
Omron G6J-2FS-Y 12VDC
Omron G6J-2FS-Y 12VDC
Omron G6J-2FS-Y 12VDC
Omron G6J-2FS-Y 12VDC
Omron G6J-2FS-Y 12VDC
Omron G6J-2FS-Y 12VDC
Omron G6J-2FS-Y 12VDC
Omron G6J-2FS-Y 12VDC
Bossard BN13916-3059300
Bossard BN13916-3059300
Bossard BN117-1874659
Bossard BN117-1874659
Assmann V-1100-SMD/B
Assmann V-1100-SMD/B
Littelfuse 37203150000

PARTS LIST (Cont'd.)

② MB16G PCB (Cont'd.)

Ref. No. Description

R817	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 147R, 1%
R818	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 330R, 1%
R819	Resistor, thickfilm, SMD0805, 0.125W, 150V, 100ppm, 10.0R, 1%
R820	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 100K, 1%
R821	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 3.00K, 1%
R822	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 1.00K, 1%
R823	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 274R, 1%
R824	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 470R, 1%
R825	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 26.1K, 1%
R826	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 383R, 1%
R827	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 1.58K, 1%
R828	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 10.0K, 1%
R829	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 324R, 1%
R830	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 10.0K, 1%
R831	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 100R, 1%
R832	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 100R, 1%
R833	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 383R, 1%
R834	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 4.70K, 1%
R835	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 4.70K, 1%
R836	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 3.00K, 1%
R837	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 4.70K, 1%
R838	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 147R, 1%
R839	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 10.5K, 1%
R840	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 100K, 1%
R841	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 4.70K, 1%
R842	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 3.00K, 1%
R843	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 4.70K, 1%
R844	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 274R, 1%
R845	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 383R, 1%
R846	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 100R, 1%
R847	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 100R, 1%
R848	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 383R, 1%
R849	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 3.00K, 1%
R850	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0K, 1%
R851	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 147R, 1%
R852	Resistor, thickfilm, SMD0805, 0.125W, 150V, 100ppm, 10.0R, 1%
R853	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 100K, 1%
R854	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 3.00K, 1%
R855	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 274R, 1%
R856	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 26.1K, 1%
R857	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 383R, 1%
R858	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 1.58K, 1%
R859	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 10.0K, 1%
R860	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 324R, 1%
R861	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 10.0K, 1%
R862	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0K, 1%
R863	Resistor, thickfilm, SMD0805, 0.125W, 150V, 100ppm, 1.00K, 1%
R864	Resistor, thickfilm, SMD0805, 0.125W, 150V, 100ppm, 240R, 1%
R865	Resistor, thickfilm, SMD0805, 0.125W, 150V, 100ppm, 110R, 1%
R866	Resistor, thickfilm, SMD1206, 0.25W, 200V, 400ppm, 1.50R, 1%
R867	Resistor, thickfilm, SMD1206, 0.25W, 200V, 400ppm, 1.50R, 1%
R868	Resistor, thickfilm, SMD1206, 0.25W, 200V, 400ppm, 1.50R, 1%
R869	Resistor, thickfilm, SMD1206, 0.25W, 200V, 400ppm, 1.50R, 1%
R870	Resistor, thickfilm, SMD1206, 0.25W, 200V, 400ppm, 1.50R, 1%
R871	Resistor, thickfilm, SMD1206, 0.25W, 200V, 400ppm, 1.50R, 1%
R872	Resistor, thickfilm, SMD1206, 0.25W, 200V, 400ppm, 1.50R, 1%
R873	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0K, 1%
R874	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0K, 1%
R875	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 4.70K, 1%
R876	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 100K, 1%
R877	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 4.70K, 1%
R878	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 100K, 1%
R879	Resistor, thickfilm, SMD0805, 0.125W, 150V, 100ppm, 110R, 1%
R880	Resistor, thickfilm, SMD0805, 0.125W, 150V, 100ppm, 10.0R, 1%

AVL

Koa Speer RN732ATTD1470F100
Koa Speer RK73H1JTDD3300F
Koa Speer RK73H2ATDD10R0F
Koa Speer RN732ATTD1003F100
Koa Speer RN732ATTD3001F100
Phycomp 2322 704 61002L
Koa Speer RN732ATTD2740F100
Koa Speer RK73H1JTDD4700F
Koa Speer RN732ATTD2612F100
Koa Speer RN732ATTD3830F100
Koa Speer RN732ATTD1581F100
Koa Speer RN732ATTD1002F100
Koa Speer RN732ATTD3240F100
Koa Speer RN732ATTD1002F100
Koa Speer RN732ATTD1000F100
Koa Speer RN732ATTD1000F100
Koa Speer RN732ATTD3830F100
Phycomp 2322 704 64702L
Phycomp 2322 704 64702L
Koa Speer RN732ATTD3001F100
Phycomp 2322 704 64702L
Koa Speer RN732ATTD1470F100
Koa Speer RN732ATTD1052F100
Koa Speer RN732ATTD1003F100
Phycomp 2322 704 64702L
Koa Speer RN732ATTD3001F100
Phycomp 2322 704 64702L
Koa Speer RN732ATTD2740F100
Koa Speer RN732ATTD3830F100
Koa Speer RN732ATTD1000F100
Koa Speer RN732ATTD1000F100
Koa Speer RN732ATTD3830F100
Koa Speer RN732ATTD3001F100
Phycomp 2322 704 61003L
Koa Speer RN732ATTD1470F100
Koa Speer RK73H2ATDD10R0F
Koa Speer RN732ATTD1003F100
Koa Speer RN732ATTD3001F100
Koa Speer RN732ATTD2740F100
Koa Speer RN732ATTD2612F100
Koa Speer RN732ATTD3830F100
Koa Speer RN732ATTD1581F100
Koa Speer RN732ATTD1002F100
Koa Speer RN732ATTD3240F100
Koa Speer RN732ATTD1002F100
Phycomp 2322 704 61003L
Koa Speer RK73H2ATDD1001F
Koa Speer RK73H2ATDD2400F
Koa Speer RK73H2ATDD1100F
Koa Speer RK73H2BTDD1R50F
Koa Speer RK73H2BTDD1R50F
Koa Speer RK73H2BTDD1R50F
Koa Speer RK73H2BTDD1R50F
Koa Speer RK73H2BTDD1R50F
Koa Speer RK73H2BTDD1R50F
Koa Speer RK73H2BTDD1R50F
Phycomp 2322 704 61003L
Phycomp 2322 704 61003L
Phycomp 2322 704 64702L
Koa Speer RK73H1JTDD1003F
Phycomp 2322 704 64702L
Koa Speer RK73H1JTDD1003F
Koa Speer RK73H2ATDD1100F
Koa Speer RK73H2ATDD10R0F

PARTS LIST (Cont'd.)

② **MB16G PCB (Cont'd.)**
Ref. No. Description

R881	Resistor, thickfilm, SMD0805, 0.125W, 150V, 100ppm, 240R, 1%
R882	Resistor, thickfilm, SMD0805, 0.125W, 150V, 100ppm, 110R, 1%
R883	Resistor, thickfilm, SMD0805, 0.125W, 150V, 100ppm, 10.0R, 1%
R884	Resistor, thickfilm, SMD0805, 0.125W, 150V, 100ppm, 10.0R, 1%
R885	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0K, 1%
R886	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 4.70K, 1%
R887	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 100K, 1%
R888	Resistor, thickfilm, SMD0805, 0.125W, 150V, 100ppm, 10.0R, 1%
R889	Resistor, thickfilm, SMD0805, 0.125W, 150V, 100ppm, 10.0R, 1%
R890	Resistor, thickfilm, SMD0805, 2A, 0R
R891	Resistor, thickfilm, SMD0805, 2A, 0R
R901	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 634R, 1%
R902	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R903	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 75.0R, 1%
R904	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R905	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R906	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 1.00K, 1%
R907	Resistor, thickfilm, SMD0805, 0.125W, 150V, 100ppm, 10.0R, 1%
R908	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 49.9K, 1%
R909	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R910	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 1.00K, 1%
R911	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 1.00K, 1%
R912	Resistor, thinfilm, SMD0805, 0.1W, 75V, 25ppm, 649R, 1%
R913	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 470R, 1%
R914	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R915	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 470R, 1%
R916	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 49.9R, 1%
R917	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 634R, 1%
R918	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 100R, 1%
R919	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R920	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R921	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 30.1K, 1%
R922	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 49.9K, 1%
R923	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R924	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 634R, 1%
R925	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R927	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R928	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R929	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 49.9K, 1%
R930	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R931	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 1.00K, 1%
R932	Resistor, thinfilm, SMD0805, 0.1W, 75V, 25ppm, 649R, 1%
R933	Resistor, thickfilm, SMD0805, 0.125W, 150V, 400ppm, 3.30R, 1%
R934	Resistor, thickfilm, SMD0805, 0.125W, 150V, 400ppm, 3.30R, 1%
R935	Resistor, thickfilm, SMD0805, 0.125W, 150V, 400ppm, 3.30R, 1%
R936	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R937	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 49.9R, 1%
R938	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 634R, 1%
R939	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R940	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R941	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 30.1K, 1%
R942	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 49.9K, 1%
R943	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R944	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 634R, 1%
R945	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R947	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R948	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R949	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 1.00K, 1%
R950	Resistor, thickfilm, SMD0805, 0.125W, 150V, 100ppm, 10.0R, 1%
R951	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 49.9K, 1%
R952	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R953	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 1.00K, 1%
R954	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 1.00K, 1%
R955	Resistor, thinfilm, SMD0805, 0.1W, 75V, 25ppm, 649R, 1%

AVL

Koa Speer RK73H2ATTD2400F
Koa Speer RK73H2ATTD1100F
Koa Speer RK73H2ATTD10R0F
Koa Speer RK73H2ATTD10R0F
Phycomp 2322 704 61003L
Phycomp 2322 704 64702L
Koa Speer RK73H1JTTD1003F
Koa Speer RK73H2ATTD10R0F
Koa Speer RK73H2ATTD10R0F
Koa Speer RK73Z2ATTD
Koa Speer RK73Z2ATTD
Koa Speer RN732ATTD6340F100
Koa Speer RN732ATTD4990F100
Koa Speer RN732ATTD75R0F100
Koa Speer RN732ATTD4990F100
Koa Speer RN732ATTD4990F100
Phycomp 2322 704 61002L
Koa Speer RK73H2ATTD10R0F
Koa Speer RN732ATTD4992F100
Koa Speer RN732ATTD4990F100
Koa Speer RN732ATTD1001F100
Phycomp 2322 704 61002L
Koa Speer RN732ATTD6490F100
Koa Speer RK73H1JTTD4700F
Koa Speer RN732ATTD4990F100
Koa Speer RK73H1JTTD4700F
Koa Speer RN732ATTD49R9F100
Koa Speer RN732ATTD6340F100
Phycomp 2322 704 61001L
Koa Speer RN732ATTD4990F100
Koa Speer RN732ATTD4990F100
Koa Speer RN732ATTD3012F100
Koa Speer RN732ATTD4992F100
Koa Speer RN732ATTD4990F100
Koa Speer RN732ATTD6340F100
Koa Speer RN732ATTD4990F100
Koa Speer RN732ATTD4990F100
Koa Speer RN732ATTD4990F100
Koa Speer RN732ATTD4992F100
Koa Speer RN732ATTD4990F100
Koa Speer RN732ATTD1001F100
Koa Speer RN732ATTD6490F100
Koa Speer RK73H2ATTD3R30F
Koa Speer RK73H2ATTD3R30F
Koa Speer RK73H2ATTD3R30F
Koa Speer RN732ATTD4990F100
Koa Speer RN732ATTD49R9F100
Koa Speer RN732ATTD6340F100
Koa Speer RN732ATTD4990F100
Koa Speer RN732ATTD4990F100
Koa Speer RN732ATTD3012F100
Koa Speer RN732ATTD4992F100
Koa Speer RN732ATTD4990F100
Koa Speer RN732ATTD6340F100
Koa Speer RN732ATTD4990F100
Koa Speer RN732ATTD4990F100
Koa Speer RN732ATTD4990F100
Phycomp 2322 704 61002L
Koa Speer RK73H2ATTD10R0F
Koa Speer RN732ATTD4992F100
Koa Speer RN732ATTD4990F100
Koa Speer RN732ATTD1001F100
Phycomp 2322 704 61002L
Koa Speer RN732ATTD6490F100

PARTS LIST (Cont'd.)

MB16G PCB (Cont'd.)

Ref. No. Description

R956	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 470R, 1%
R957	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R958	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 470R, 1%
R959	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 49.9R, 1%
R960	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 634R, 1%
R961	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 100R, 1%
R962	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R963	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R964	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 30.1K, 1%
R965	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 49.9K, 1%
R966	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R967	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 634R, 1%
R968	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R970	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R971	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R972	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 49.9K, 1%
R973	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R974	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 1.00K, 1%
R975	Resistor, thinfilm, SMD0805, 0.1W, 75V, 25ppm, 649R, 1%
R976	Resistor, thickfilm, SMD0805, 0.125W, 150V, 400ppm, 3.30R, 1%
R977	Resistor, thickfilm, SMD0805, 0.125W, 150V, 400ppm, 3.30R, 1%
R978	Resistor, thickfilm, SMD0805, 0.125W, 150V, 400ppm, 3.30R, 1%
R979	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R980	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 49.9R, 1%
R981	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 634R, 1%
R982	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R983	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R984	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 30.1K, 1%
R985	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 4.70K, 1%
R986	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 49.9K, 1%
R987	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 499R, 1%
R988	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 4.70K, 1%
R989	Resistor, thinfilm, SMD MMA 0204, 0.25W, 200V, 50ppm, 22.0R, 1%
R990	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 4.70K, 1%
R991	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 4.70K, 1%
R992	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 4.70K, 1%
R993	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0K, 1%
R994	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 4.70K, 1%
R995	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 4.70K, 1%
R996	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 100K, 1%
R997	Resistor, thickfilm, SMD0805, 0.125W, 150V, 100ppm, 10.0R, 1%
R998	Resistor, thickfilm, SMD0805, 0.125W, 150V, 100ppm, 10.0R, 1%
R999	Resistor, thickfilm, SMD0805, 0.125W, 150V, 100ppm, 10.0R, 1%
R1000	Resistor, thickfilm, SMD0805, 0.125W, 150V, 100ppm, 10.0R, 1%
R1001	Resistor, thickfilm, SMD0805, 0.125W, 150V, 100ppm, 10.0R, 1%
R1002	Resistor, thickfilm, SMD0805, 0.125W, 150V, 100ppm, 10.0R, 1%
R1003	Resistor, thickfilm, SMD0805, 0.125W, 150V, 100ppm, 10.0R, 1%
R1004	Resistor, thickfilm, SMD0805, 0.125W, 150V, 100ppm, 10.0R, 1%
R1005	Resistor, thickfilm, SMD0805, 2A, 0R
R1006	Resistor, thickfilm, SMD0805, 2A, 0R
R1007	Resistor, thickfilm, SMD0805, 2A, 0R
R1008	Resistor, thickfilm, SMD0805, 2A, 0R
R1009	Resistor, thickfilm, SMD0805, 2A, 0R
R1010	Resistor, thickfilm, SMD0805, 2A, 0R
R1011	Resistor, thickfilm, SMD0805, 2A, 0R
R1012	Resistor, thickfilm, SMD0805, 2A, 0R
R1013	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 49.9R, 1%
R1014	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 1.00K, 1%
R1015	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 49.9R, 1%
R1016	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 49.9R, 1%
R1018	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 75.0R, 1%
R1019	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 49.9R, 1%
R1020	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 1.00K, 1%
R1021	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 49.9R, 1%

AVL

Koa Speer RK73H1JTTD4700F
Koa Speer RN732ATTD4990F100
Koa Speer RK73H1JTTD4700F
Koa Speer RN732ATTD49R9F100
Koa Speer RN732ATTD6340F100
Phycomp 2322 704 61001L
Koa Speer RN732ATTD4990F100
Koa Speer RN732ATTD4990F100
Koa Speer RN732ATTD3012F100
Koa Speer RN732ATTD4992F100
Koa Speer RN732ATTD4990F100
Koa Speer RN732ATTD6340F100
Koa Speer RN732ATTD4990F100
Koa Speer RN732ATTD4990F100
Koa Speer RN732ATTD4992F100
Koa Speer RN732ATTD4990F100
Koa Speer RN732ATTD1001F100
Koa Speer RN732ATTD6490F100
Koa Speer RK73H2ATTD3R30F
Koa Speer RK73H2ATTD3R30F
Koa Speer RK73H2ATTD3R30F
Koa Speer RN732ATTD4990F100
Koa Speer RN732ATTD49R9F100
Koa Speer RN732ATTD6340F100
Koa Speer RN732ATTD4990F100
Koa Speer RN732ATTD4990F100
Koa Speer RN732ATTD3012F100
Phycomp 2322 704 64702L
Koa Speer RN732ATTD4992F100
Koa Speer RN732ATTD4990F100
Phycomp 2322 704 64702L
Koa Speer RN412ESTTE22R0F50
Phycomp 2322 704 64702L
Phycomp 2322 704 64702L
Phycomp 2322 704 64702L
Phycomp 2322 704 61003L
Phycomp 2322 704 64702L
Phycomp 2322 704 64702L
Koa Speer RK73H1JTTD1003F
Koa Speer RK73H2ATTD10R0F
Koa Speer RK73H2ATTD10R0F
Koa Speer RK73H2ATTD10R0F
Koa Speer RK73H2ATTD10R0F
Koa Speer RK73H2ATTD10R0F
Koa Speer RK73H2ATTD10R0F
Koa Speer RK73H2ATTD10R0F
Koa Speer RK73Z2ATTD
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Koa Speer RK73Z2ATTD
Koa Speer RK73Z2ATTD
Koa Speer RK73Z2ATTD
Koa Speer RK73Z2ATTD
Koa Speer RK73Z2ATTD
Koa Speer RN732ATTD49R9F100
Koa Speer RN732ATTD1001F100
Koa Speer RN732ATTD49R9F100
Koa Speer RN732ATTD49R9F100
Koa Speer RN732ATTD75R0F100
Koa Speer RN732ATTD49R9F100
Koa Speer RN732ATTD1001F100
Koa Speer RN732ATTD49R9F100

PARTS LIST (Cont'd.)

② **MB16G PCB (Cont'd.)**

Ref. No. Description

R1022	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 1.00K, 1%
R1023	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 49.9R, 1%
R1024	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 75.0R, 1%
R1025	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 75.0R, 1%
R1026	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 49.9R, 1%
R1027	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 49.9R, 1%
R1028	Resistor, thinfilm, SMD0805, 0.1W, 75V, 100ppm, 1.00K, 1%
R1030	Resistor, thinfilm, SMD MMA 0204, 0.25W, 200V, 50ppm, 22.0R, 1%
U805	IC, A/D converter, audio, 192KHz, 24 bit, 123dB dynamic range, SOP-28 case, AK5394A
U201	IC, voltage regulator, Buck, 3.3V, 4%, 0.35A, 5.5V in, SOT23-5 case, LM3670MF-3.3
U202	IC, voltage regulator, step-down, 150KHz, 1.2V-37V, 4%, 3A, 40V in, TO-263-5 case, LM2596S-ADJ
U203	IC, voltage regulator, LDO, 3.3V, 2%, 5A, 5.75V in, TO-220 case, LT1585ACT-3.3
U203B	Insulation bushing for TO-220 case, M3, Nylon, IB 6
U203P	Insulation pad, silicone/fiber glass, TO-220, 4000V, 2.1W/mK
U203S	Screw, M3x10TF, Round TX Zn
U204	IC, comparator, quad, 3V-30V. low power, 1.3uS, SOIC-14 case, LP339D
U205	IC; Positive voltage regulator, 15V, 1A, TO-220, LM7815CT
U205B	Insulation bushing for TO-220 case, M3, Nylon, IB 6
U205P	Insulation pad, silicone/fiber glass, TO-220, 4000V, 2.1W/mK
U205S	Screw, M3x10TF, Round TX Zn
U206	IC; Negative voltage regulator, 15V, 1A, TO-220, LM7915CT
U206B	Insulation bushing for TO-220 case, M3, Nylon, IB 6
U206P	Insulation pad, silicone/fiber glass, TO-220, 4000V, 2.1W/mK
U206S	Screw, M3x10TF, Round TX Zn
U301	IC, microcontroller, Coldfire, LQFP-100, 80MHz
U302	IC, power supply supervisor, 2.9V, 200mS delay, SOT323-5 case, TPS3801K33DCK
U303	IC, EEPROM, 256Kb, 2.7V-5.5V, SPI, SOIC-8 case, AT25256
U401	IC, Altera MAXII series EPLD, 570LE, 76I/O, 100pin TQFP case, EPM570T100C3N
U501	IC, DSP, Audio optimized, TSSOP-38 case, TAS3103DBT
U502	IC, DSP, Audio optimized, TSSOP-38 case, TAS3103DBT
U503	IC; Positive voltage regulator, 9V, 0.5A, D-PACK3, MC78M09CDT
U601	IC, interface, RS-232 transceiver, 2 channel, 3V-5V, SOIC-16 case, MAX3232E
U602	IC, logic, LVC series, inverter, Schmidt trigger, hex, 1.65V-3.6V, 5V tolerant, 6.4nS, SOIC-14 case, SN74LVC14AD
U603	IC, voltage regulator, 1.2V-37V, 4%, 0.5A, 40V in, KTP case, LM317MKTPR
U604	IC, logic, LVC series, AND, single, 1.65V-5.5V, 5V tollerant, 3.8nS, SOT23-5 case, SN74LVC1G08DBVT
U605	IC, Voltage regulator, 3V-.24V, 40V in, 100mA, shutdown, D2PAK case 5 pin, LM2931CD2TG
U702	IC, logic, LVC series, buffer, dual, 1.65V-3.6V, 5V tollerant, 4.1nS, SOT23-6 case, SN74LVC2G34DBV
U703	IC, logic, LVC series, buffer, dual, 1.65V-3.6V, 5V tollerant, 4.1nS, SOT23-6 case, SN74LVC2G34DBV
U801	IC, OP-AMP, dual, audio, 6V-40V, 5nV noise, SOIC-8 case, NE5532AD
U802	IC, OP-AMP, dual, audio, 6V-40V, 5nV noise, SOIC-8 case, NE5532AD
U803	IC, OP-AMP, dual, audio, 6V-40V, 5nV noise, SOIC-8 case, NE5532AD
U804	IC, OP-AMP, dual, audio, 6V-40V, 5nV noise, SOIC-8 case, NE5532AD
U806	IC; Positive voltage regulator, 9V, 0.5A, D-PACK3, MC78M09CDT
U807	IC, voltage regulator, 5V, 5%, 0.5A, 35V in, D-PAK case, MC78M05CDT
U808	IC, voltage regulator, LDO, low noise, 3.3V, 4%, 0.15A, 16V in, SOT-23-5 case, LP2985IM5-3.3
U901	IC, D/A converter, audio, 192KHz, 24 bit, 117dB dynamic range, SSOP-28 case, XVM8740EDS
U911	IC, D/A converter, audio, 192KHz, 24 bit, 117dB dynamic range, SSOP-28 case, XVM8740EDS
U902	IC, voltage regulator, 5V, 5%, 0.5A, 35V in, D-PAK case, MC78M05CDT
U903	IC, OP-AMP, dual, audio, 6V-40V, 5nV noise, SOIC-8 case, NE5532AD
U904	IC, OP-AMP, dual, audio, 6V-40V, 5nV noise, SOIC-8 case, NE5532AD
U905	IC, OP-AMP, dual, audio, 6V-40V, 5nV noise, SOIC-8 case, NE5532AD
U906	IC, OP-AMP, dual, audio, 6V-40V, 5nV noise, SOIC-8 case, NE5532AD
U912	IC, voltage regulator, 5V, 5%, 0.5A, 35V in, D-PAK case, MC78M05CDT
U913	IC, OP-AMP, dual, audio, 6V-40V, 5nV noise, SOIC-8 case, NE5532AD
U914	IC, OP-AMP, dual, audio, 6V-40V, 5nV noise, SOIC-8 case, NE5532AD
U915	IC, OP-AMP, dual, audio, 6V-40V, 5nV noise, SOIC-8 case, NE5532AD
U916	IC, OP-AMP, dual, audio, 6V-40V, 5nV noise, SOIC-8 case, NE5532AD
X301	Crystal, SMD HC49/4H case, 7.3728MHz, 50ppm, 18pF load

AVL

Koa Speer RN732ATTD1001F100
Koa Speer RN732ATTD49R9F100
Koa Speer RN732ATTD75R0F100
Koa Speer RN732ATTD75R0F100
Koa Speer RN732ATTD49R9F100
Koa Speer RN732ATTD49R9F100
Koa Speer RN732ATTD1001F100
Koa Speer RN412ESTTE22R0F50
AKM AK5394AVS
National LM3670MF-3.3/NOPB
National LM2596S-ADJ/NOPB
Linear Technology LT1585ACT-3.3#PBF
Fisher Elektronik IB 6
Chomerics 60-11-8302-T500
Bossard BN6404-1983393
Philips LP339D
Fairchild LM7815CT
Fisher Elektronik IB 6
Chomerics 60-11-8302-T500
Bossard BN6404-1983393
Fairchild LM7915CT
Fisher Elektronik IB 6
Chomerics 60-11-8302-T500
Bossard BN6404-1983393
Freescale MCF5213CAF80
Texas Instruments TPS3801K33DCK
Atmel AT25256B-SSHL-B
Altera EPM570T100C3N
Texas Instruments TAS3103DBT
Texas Instruments TAS3103DBT
Fairchild MC78M09CDT
Texas Instruments MAX3232ECD
Texas Instruments SN74LVC14AD
Texas Instruments LM317MKTPR
Texas Instruments SN74LVC1G08DBVT
BVT
On Semiconductor LM2931CD2TG
Texas Instruments SN74LVC2G34DBV
BVT
Texas Instruments SN74LVC2G34DBV
BVT
Texas Instruments NE5532AD
Texas Instruments NE5532AD
Texas Instruments NE5532AD
Texas Instruments NE5532AD
Fairchild MC78M09CDT
Motorola MC78M05CDT
National LP2985IM5-3.3/NOPB
Wolfson Microelectronics WM 8740SEDS
Wolfson Microelectronics WM 8740SEDS
Motorola MC78M05CDT
Texas Instruments NE5532AD
Texas Instruments NE5532AD
Texas Instruments NE5532AD
Texas Instruments NE5532AD
Texas Instruments NE5532AD
Motorola MC78M05CDT
Texas Instruments NE5532AD
Texas Instruments NE5532AD
Texas Instruments NE5532AD
Texas Instruments NE5532AD
Citizen HCM49-7.3728MABJ-UT

PARTS LIST (Cont'd.)

② MB16G PCB (Cont'd.)

Ref. No. Description

X491	IC, clock oscillator, SMD 5x7mm case, 100MHz, 25ppm, 3.3V
X492	IC, clock oscillator, SMD 9x14mm case, 100MHz, 25ppm, 3.3V PCB, 4 layer, 1.6mm FR4, 406.4x146.8 mm, Rectangular with cut-out, MB16G

AVL

CMAC CFPS-73 100.00MHz B
BU SMD S LF
Crystek CCHD-950-25-100.000
Lyngdorf Audio MB16G

③ SP01 PCB

Ref. No. Description

C201	Capacitor, SMD1206, X7R, 10uF, 10V, 20%	AVX 1206ZC106MAT2A
C202	Capacitor, SMD1206, X7R, 10uF, 10V, 20%	AVX 1206ZC106MAT2A
C203	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C204	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C205	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C206	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C207	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C208	Capacitor, SMD1206, X7R, 10uF, 10V, 20%	AVX 1206ZC106MAT2A
C209	Capacitor, SMD1206, X7R, 10uF, 10V, 20%	AVX 1206ZC106MAT2A
C210	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C211	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C212	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C213	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C214	Capacitor, SMD1206, X7R, 1uF, 16V, 10%	AVX 1206YC105KAT2A
C215	Capacitor, SMD1206, X7R, 1uF, 16V, 10%	AVX 1206YC105KAT2A
C216	Capacitor, SMD 5.3x6.0mm, OSCON, 2000hrs, 105C, 68uF, 4V, 60mR, 1.4A, 20%	Sanyo 4SVP68M
C217	Capacitor, SMD 5.3x6.0mm, OSCON, 2000hrs, 105C, 68uF, 4V, 60mR, 1.4A, 20%	Sanyo 4SVP68M
C218	Capacitor, SMD 5.3x6.0mm, OSCON, 2000hrs, 105C, 68uF, 4V, 60mR, 1.4A, 20%	Sanyo 4SVP68M
C219	Capacitor, SMD0603, NP0, 15pF, 50V, 10%	AVX 06035A150KAT2A
C220	Capacitor, SMD0603, NP0, 15pF, 50V, 10%	AVX 06035A150KAT2A
C221	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C222	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C301	Capacitor, SMD1206, X7R, 10uF, 10V, 20%	AVX 1206ZC106MAT2A
C303	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C304	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C305	Capacitor, SMD1206, X7R, 10uF, 10V, 20%	AVX 1206ZC106MAT2A
C306	Capacitor, SMD1206, X7R, 10uF, 10V, 20%	AVX 1206ZC106MAT2A
C307	Capacitor, SMD1206, X7R, 10uF, 10V, 20%	AVX 1206ZC106MAT2A
C308	Capacitor, SMD1206, X7R, 10uF, 10V, 20%	AVX 1206ZC106MAT2A
C309	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C310	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C311	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C312	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C313	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C314	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C315	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C316	Capacitor, SMD1206, X7R, 10uF, 10V, 20%	AVX 1206ZC106MAT2A
C317	Capacitor, SMD1206, X7R, 10uF, 10V, 20%	AVX 1206ZC106MAT2A
C318	Capacitor, SMD1206, X7R, 10uF, 10V, 20%	AVX 1206ZC106MAT2A
C319	Capacitor, SMD1206, X7R, 10uF, 10V, 20%	AVX 1206ZC106MAT2A
C320	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C321	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C322	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C323	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C324	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C325	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C326	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
C351	Capacitor, SMD0603, X7R, 100nF, 25V, 20%	AVX 06033C104MAT2A
D201	Diode, schottky, single, SMD, 40V, 1.75A, 0.42Vf/1A, SOT-23-3 case, ZHCS1000	Zetex ZHCS1000
L201	Inductor, ferrite, SMD1812PS case, 10uH, 10%, 0.9A, 0.17R	Coilcraft 1812PS-103KLC
Q201	Transistor, MOSFET, P-channel, SMD SO-8 case, 20V, 3.5A, 0.11Rdson, 6nC gate charge, FDS9431A	Fairchild FDS9431A

PARTS LIST (Cont'd.)

③ SP01 PCB (Cont'd.)

Ref. No. Description

Q202	Transistor, MOSFET, dual complementary, N-channel, 30V, 5.5A, 38mRdson, 19.8nC gate charge, P-channel, 20V, 4A, 72mRdson, 20nC gate charge, SMD SO-8 case.
R102	Resistor, thickfilm, quad, SMD0805, convex terminals, 0.063W, 25V, 200ppm, 10R, 5%”
R103	Resistor, thickfilm, quad, SMD0805, convex terminals, 0.063W, 25V, 200ppm, 10R, 5%”
R104	Resistor, thickfilm, quad, SMD0805, convex terminals, 0.063W, 25V, 200ppm, 10R, 5%”
R105	Resistor, thickfilm, quad, SMD0805, convex terminals, 0.063W, 25V, 200ppm, 10R, 5%”
R106	Resistor, thickfilm, quad, SMD0805, convex terminals, 0.063W, 25V, 200ppm, 10R, 5%”
R107	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0K, 1%”
R108	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0K, 1%”
R109	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0K, 1%”
R110	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0K, 1%”
R111	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0K, 1%”
R112	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0K, 1%”
R113	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0K, 1%”
R114	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0R, 1%
R115	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0K, 1%”
R201	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0K, 1%
R202	Resistor, thickfilm, SMD2512, 2W, 200V, 350ppm, 4R70, 1%
R203	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 4.70K, 1%
R204	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0R, 1%
R205	Resistor, thickfilm, quad, SMD0805, convex terminals, 0.063W, 25V, 200ppm, 10R, 5%”
R210	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0R, 1%
R211	Resistor, thickfilm, quad, SMD0805, convex terminals, 0.063W, 25V, 200ppm, 10K, 5%
R212	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0R, 1%
R213	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0K, 1%”
R214	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0R, 1%
R215	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 4.70K, 1%
R216	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 4.70K, 1%
R217	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 4.70K, 1%
R218	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 4.70K, 1%
R219	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 4.70K, 1%
R220	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 4.70K, 1%
R301	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0K, 1%”
R302	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0K, 1%”
R303	Resistor, thickfilm, quad, SMD0805, convex terminals, 0.063W, 25V, 200ppm, 10R, 5%”
R304	Resistor, thickfilm, quad, SMD0805, convex terminals, 0.063W, 25V, 200ppm, 10R, 5%”
R305	Resistor, thickfilm, quad, SMD0805, convex terminals, 0.063W, 25V, 200ppm, 10R, 5%”
R306	Resistor, thickfilm, quad, SMD0805, convex terminals, 0.063W, 25V, 200ppm, 10R, 5%”
R307	Resistor, thickfilm, quad, SMD0805, convex terminals, 0.063W, 25V, 200ppm, 10R, 5%”
R308	Resistor, thickfilm, quad, SMD0805, convex terminals, 0.063W, 25V, 200ppm, 10R, 5%”
R309	Resistor, thickfilm, quad, SMD0805, convex terminals, 0.063W, 25V, 200ppm, 10R, 5%”
R310	Resistor, thickfilm, quad, SMD0805, convex terminals, 0.063W, 25V, 200ppm, 10R, 5%”
R311	Resistor, thickfilm, quad, SMD0805, convex terminals, 0.063W, 25V, 200ppm, 10R, 5%”
R337	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0K, 1%”
R339	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0K, 1%”
R341	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0K, 1%”
R344	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0K, 1%”
R351	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0R, 1%
R352	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 1.00K, 1%
R353	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0R, 1%
R355	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0K, 1%”
R356	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 100R, 1%
R357	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 100R, 1%
R358	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 100R, 1%
R359	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 100R, 1%
R360	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 1.00K, 1%
S101	Connector, pinrow, straight, 2.54mm pitch, 0.64mm sq pin, PCB, TH,male, 9mm head, 6mm tail, gold, 2x17-way

AVL

Fairchild FDS8928A
Venkel CRN10-4-10RJT
Venkel CRN10-4-10RJT
Venkel CRN10-4-10RJT
Venkel CRN10-4-10RJT
Venkel CRN10-4-10RJT
Phycomp 2322 704 61003L
Phycomp 2322 704 61003L
Phycomp 2322 704 61003L
Phycomp 2322 704 61003L
Phycomp 2322 704 61003L
Phycomp 2322 704 61003L
Phycomp 2322 704 61009L
Phycomp 2322 704 61003L
Phycomp 2322 704 61003L
Venkel CR2512-2W-4R70F
Phycomp 2322 704 64702L
Phycomp 2322 704 61009L
Venkel CRN10-4-10RJT
Phycomp 2322 704 61009L
Venkel CRN10-4-103JT
Phycomp 2322 704 61009L
Phycomp 2322 704 61003L
Phycomp 2322 704 61009L
Phycomp 2322 704 64702L
Phycomp 2322 704 64702L
Phycomp 2322 704 64702L
Phycomp 2322 704 64702L
Phycomp 2322 704 64702L
Phycomp 2322 704 64702L
Phycomp 2322 704 61003L
Phycomp 2322 704 61003L
Venkel CRN10-4-10RJT
Venkel CRN10-4-10RJT
Venkel CRN10-4-10RJT
Venkel CRN10-4-10RJT
Venkel CRN10-4-10RJT
Venkel CRN10-4-10RJT
Venkel CRN10-4-10RJT
Venkel CRN10-4-10RJT
Phycomp 2322 704 61003L
Phycomp 2322 704 61003L
Phycomp 2322 704 61003L
Phycomp 2322 704 61003L
Phycomp 2322 704 61009L
Phycomp 2322 704 61003L
Phycomp 2322 704 61001L
Phycomp 2322 704 61001L
Phycomp 2322 704 61001L
Phycomp 2322 704 61001L
Phycomp 2322 704 61002L

Oupiin 2011-2X17G00S/6/9B

PARTS LIST (Cont'd.)

③ SP01 PCB (Cont'd.)

Ref. No. Description

S102	Connector, pinrow, straight, 2.54mm pitch, 0.64mm sq pin, PCB, TH,male, 9mm head, 6mm tail, gold, 2x17-way
S201	Connector., pinrow, straight, 2.54mm pitch, 0.64mm sq pin, PCB, TH,male,boardstacking 7.5mm head, 2.5mm tail, 12mm stackingheight, gold, 6+7-way, no pin 3
U101	IC, DSP, Blackfin, PBGA-297 case, ADSP-BF561SBBZ600 silicium version 0.3
U201	IC, comparator, single, nanopower reset comparator, 3.3V, active low output, reset input, SOT-23-5 case.
U202	IC, voltage regulator, LDO, 3.3V, 1.5%, 1A, 10V in, TO-252 case, LP8340CDT-3.3
U203	IC, logic, AUP series, inverter, Schmidt trigger, single, 0.8V-3.6V, 4.9nS, SOT23-5 case, SN74AUP1G14DBV
U204	IC, logic, LVC series, buffer, 3-state, single, 1.65V-5.5V, 5V tolerant, 4nS, SOT23-5 case, SN74LVC1G126DBVT
U205	IC, comparator, single, nanopower reset comparator, 3.0V, active low output, reset input, SOT-23-5 case, TPS3836L30DBVT
U301	IC, Flash, 64Mbit, 32bit data interface, 3V, TSOP 56 case.
U302	IC, SDRAM, 64Mbit, 16bit data interface, 133MHz, 3.3V, TSOP 56 case.
U303	IC, SDRAM, 64Mbit, 16bit data interface, 133MHz, 3.3V, TSOP 56 case.
U351	IC, EEPROM, 256Kb, 2.7V-5.5V, SPI, SOIC-8 case, AT25256AN-10SI-2.7
X201	Crystal, SMD HC49/4H case, 24.576MHz, 30ppm PCB, 6 layer, 1.6mm FR4, 52x58mm, SP01D

AVL

Oupiin 2011-2X17G00S/6/9B
Oupiin 2012-2X07G00S/2.5/7.5/22B/L001
Analog Devices ADSP-BF561SBBZ600
Texas Instruments TPS3836K33DBVT
National LP8340CDT-3.3/NOPB
Texas Instruments SN74AUP1G14DBVT
Texas Instruments SN74LVC1G126DBVT
Texas Instruments TPS3836L30DBVT
Spansion S29GL064M-90-TFI-R20
Micron MT48LC4M16A2P-7E
Micron MT48LC4M16A2P-7E
Atmel AT25256AN-10SU-2.7
Citizen HCM49-24.576MABJ-UT
Lyngdorf Audio SP01D

④ AD01 PCB

Ref. No. Description

AVL

C401	Capacitor, SMD 4.3x5.4mm, AL, 2000hrs, 85C, 47uF, 6.3V, 20%
C402	Capacitor, SMD 4.3x5.4mm, AL, 2000hrs, 85C, 47uF, 6.3V, 20%
C403	Capacitor, SMD 4.3x5.4mm, AL, 2000hrs, 85C, 47uF, 6.3V, 20%
C404	Capacitor, SMD 4.3x5.4mm, AL, 2000hrs, 85C, 47uF, 6.3V, 20%
C405	Capacitor, SMD0603, X7R, 100nF, 25V, 20%”
C406	Capacitor, SMD 4.3x5.4mm, AL, 2000hrs, 85C, 47uF, 6.3V, 20%”
C407	Capacitor, SMD0603, NP0, 47pF, 50V, 10%”
C408	Capacitor, SMD0603, NP0, 47pF, 50V, 10%”
C409	Capacitor, SMD0603, NP0, 100pF, 50V, 10%”
C410	Capacitor, SMD0603, NP0, 100pF, 50V, 10%”
C411	Capacitor, SMD 4.3x5.4mm, AL, 2000hrs, 85C, 47uF, 6.3V, 20%
C412	Capacitor, SMD0603, NP0, 22pF, 50V, 10%”
C413	Capacitor, SMD 4.3x5.4mm, AL, 2000hrs, 85C, 47uF, 6.3V, 20%
C414	Capacitor, SMD 4.3x5.4mm, AL, 2000hrs, 85C, 47uF, 6.3V, 20%
C415	Capacitor, SMD0805, X7R, 470nF, 16V, 20%”
C416	Capacitor, SMD 4.3x5.4mm, AL, 2000hrs, 85C, 47uF, 6.3V, 20%
C417	Capacitor, SMD0603, X7R, 100nF, 25V, 20%”
C418	Capacitor, SMD 4.3x5.4mm, AL, 2000hrs, 85C, 47uF, 6.3V, 20%
C419	Capacitor, SMD 4.3x5.4mm, AL, 2000hrs, 85C, 47uF, 6.3V, 20%
C420	Capacitor, SMD 4.3x5.4mm, AL, 2000hrs, 85C, 47uF, 6.3V, 20%
C421	Capacitor, SMD0603, X7R, 100nF, 25V, 20%”
C422	Capacitor, SMD0603, X7R, 100nF, 25V, 20%”
C423	Capacitor, SMD 5.3x6.0mm, OSCON, 2000hrs, 105C, 68uF, 4V, 60mR, 1.4A, 20%”
C424	Capacitor, SMD0603, NP0, 100pF, 50V, 10%”
C425	Capacitor, SMD0603, X7R, 100nF, 25V, 20%”
D401	Diode, zener, single, SMD, 10V, 5%, 0.35W, SOT-23-3 case, BZX84C10V”
D402	Diode, schottky, dual, separate diodes, SMD, 40V, 0.12A, 0.5Vf/10mA, SOT-143B case, BAS40-07
D403	Diode, schottky, dual, separate diodes, SMD, 40V, 0.12A, 0.5Vf/10mA, SOT-143B case, BAS40-07
Q401	Transistor, MOSFET, N-channel, SMD SOT-23 case, 50V, 0.22A, 3.5Rdson, 1.7nC gate charge, BSS138
Q402	Transistor, PNP, SMD SOT-23 case, 20V, 6A, 145mV Vce-sat @ 1.5A, FMMT718
Q403	Transistor, MOSFET, N-channel, SMD SOT-23 case, 50V, 0.22A, 3.5Rdson, 1.7nC gate charge, BSS138

Nichicon UWR0J470MCL1GB
Nichicon UWR0J470MCL1GB
Nichicon UWR0J470MCL1GB
Nichicon UWR0J470MCL1GB
AVX 06033C104MAT2A
Nichicon UWR0J470MCL1GB
AVX 06035A470KAT2A
AVX 06035A470KAT2A
AVX 06035A101KAT2A
AVX 06035A101KAT2A
Nichicon UWR0J470MCL1GB
AVX 06035A220KAT2A
Nichicon UWR0J470MCL1GB
Nichicon UWR0J470MCL1GB
AVX 0805YC474MAT2A
Nichicon UWR0J470MCL1GB
AVX 06033C104MAT2A
Nichicon UWR0J470MCL1GB
Nichicon UWR0J470MCL1GB
Nichicon UWR0J470MCL1GB
AVX 06033C104MAT2A
AVX 06033C104MAT2A
Sanyo 4SVP68M
AVX 06035A101KAT2A
AVX 06033C104MAT2A
Philips BZX84C10V
Philips BAS40-07
Philips BAS40-07
Fairchild BSS138
Zetex FMMT718
Fairchild BSS138

PARTS LIST (Cont'd.)

④ **AD01 PCB (Cont'd.)**

Ref. No. Description

R401	Resistor, thinfilm, SMD0603, 0.063W, 50V, 100ppm, 10.0K, 1%
R402	Resistor, thinfilm, SMD0603, 0.063W, 50V, 100ppm, 10.0K, 1%
R403	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 100K, 1%
R404	Resistor, thinfilm, SMD0603, 0.063W, 50V, 100ppm, 2.20K, 1%
R405	Resistor, thinfilm, SMD0603, 0.063W, 50V, 100ppm, 1.00M, 1%
R406	Resistor, thinfilm, SMD0603, 0.063W, 50V, 100ppm, 1.00M, 1%
R407	Resistor, thinfilm, SMD0603, 0.063W, 50V, 100ppm, 100R, 1%
R408	Resistor, thinfilm, SMD0603, 0.063W, 50V, 100ppm, 1.20K, 1%
R409	Resistor, thinfilm, SMD0603, 0.063W, 50V, 100ppm, 1.20K, 1%
R410	Resistor, thinfilm, SMD0603, 0.063W, 50V, 100ppm, 10.0K, 1%
R412	Resistor, thinfilm, SMD0603, 0.063W, 50V, 100ppm, 10.0K, 1%
R413	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 1.00K, 1%
R414	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 1.00K, 1%
R415	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 1.00K, 1%
R416	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 1.00K, 1%
R417	Resistor, thinfilm, SMD0603, 0.063W, 50V, 100ppm, 11.0K, 1%
R418	Resistor, thinfilm, SMD0603, 0.063W, 50V, 100ppm, 11.0K, 1%
R419	Resistor, thinfilm, SMD0603, 0.063W, 50V, 100ppm, 47.0K, 1%
R420	Resistor, thinfilm, SMD0603, 0.063W, 50V, 100ppm, 47.0K, 1%
R421	Resistor, thinfilm, SMD0603, 0.063W, 50V, 100ppm, 1.00M, 1%
R422	Resistor, thinfilm, SMD0603, 0.063W, 50V, 100ppm, 47.0K, 1%
R423	Resistor, thinfilm, SMD0603, 0.063W, 50V, 100ppm, 11.0K, 1%
R424	Resistor, thinfilm, SMD0603, 0.063W, 50V, 100ppm, 2.70K, 1%
R425	Resistor, thinfilm, SMD0603, 0.063W, 50V, 100ppm, 910R, 1%”
R426	Resistor, thinfilm, SMD0603, 0.063W, 50V, 100ppm, 100K, 1%
R427	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0R, 1%
R428	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0R, 1%
R429	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 100K, 1%
R430	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 47.0K, 1%
R431	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 1.00K, 1%
R432	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0R, 1%
R433	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0R, 1%
R434	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0R, 1%
R435	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0R, 1%
R436	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0R, 1%
R437	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 47.0K, 1%
R438	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 100K, 1%
R439	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 47.0K, 1%
R440	Resistor, thickfilm, SMD0603, 0.1W, 50V, 100ppm, 10.0K, 1%
S401	Connector, pinrow, straight, 2.54mm pitch, 0.64mm sq pin, PCB, TH, female, gold, 8.5mm body, 2.9mm tail, 2x17-way”
S402	Connector, pinrow, straight, 2.54mm pitch, 0.64mm sq pin, PCB, TH, female, gold, 8.5mm body, 2.9mm tail, 2x17-way
U401	IC, OP-AMP, single, audio, 2.7V-5.5V, 8nV noise, SOIC-8 case, AD8606AR
U402	IC, logic, HC series, bilateral switch, quad, 2V-10V, 35R, SOIC-14 case, MM74HC4066M
U403	IC, A/D converter, audio, 96KHz, 24 bit, 102dB dynamic range, TSSOP-16 case, AK5357ETP
U404	IC, logic, HCT series, flip-flop, monostable, retriggerable, dual, 4.5V-5.5V, SO-16 case, CD74HCT123M
PCB, 2 layer, 1.6mm FR4, 52x58mm, AD01B	

AVL

Koa Speer RN73C1JTTD1002F100
Koa Speer RN73C1JTTD1002F100
Koa Speer RK73H1JTTD1003F
Koa Speer RN73C1JTTD2201F100
Koa Speer RN73C1JTTD1004F100
Koa Speer RN73C1JTTD1004F100
Koa Speer RN73C1JTTD1000F100
Koa Speer RN73C1JTTD1201F100
Koa Speer RN73C1JTTD1201F100
Koa Speer RN73C1JTTD1002F100
Koa Speer RN73C1JTTD1002F100
Phycomp 2322 704 61002L
Phycomp 2322 704 61002L
Phycomp 2322 704 61002L
Koa Speer RN73C1JTTD1102F100
Koa Speer RN73C1JTTD1102F100
Koa Speer RN73C1JTTD4702F100
Koa Speer RN73C1JTTD4702F100
Koa Speer RN73C1JTTD1004F100
Koa Speer RN73C1JTTD4702F100
Koa Speer RN73C1JTTD1102F100
Koa Speer RN73C1JTTD2701F100
Koa Speer RN73C1JTTD9100F100
Koa Speer RN73C1JTTD1003F100
Phycomp 2322 704 61009L
Phycomp 2322 704 61009L
Koa Speer RK73H1JTTD1003F
Koa Speer RK73H1JTTD4702F
Phycomp 2322 704 61002L
Phycomp 2322 704 61009L
Phycomp 2322 704 61009L
Phycomp 2322 704 61009L
Phycomp 2322 704 61009L
Phycomp 2322 704 61009L
Koa Speer RN73H1JTTD4702F
Koa Speer RK73H1JTTD1003F
Koa Speer RK73H1JTTD4702F
Phycomp 2322 704 61003L
Tyco 6-534206-7
Tyco 6-534206-7
Analog Devices AD8606ARZ
Fairchild MM74HC4066M
AKM AK5357ETP
Texas Instruments CD74HCT123M
CT123M
Lyngdorf Audio AD01B

PARTS LIST (Cont'd.)

5 DISPLAY PCB 750952

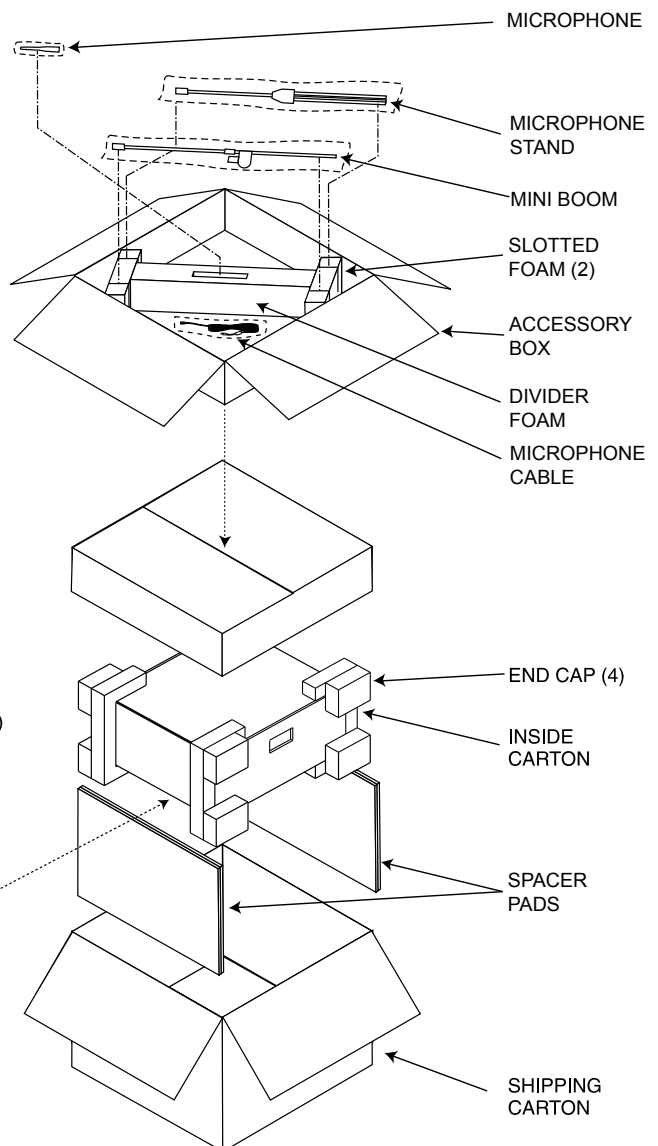
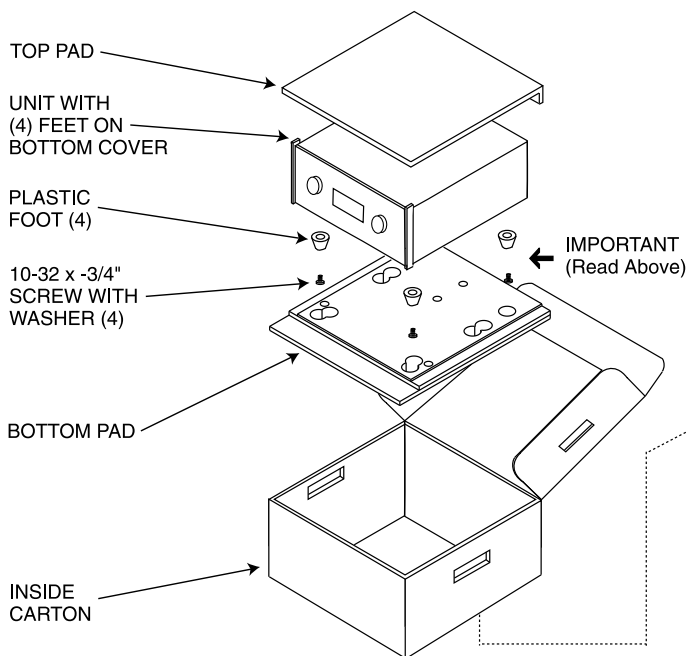
Ref. No.	Description	Part No.	Ref. No.	Description	Part No.
C1	CAP MONO .1UF 50V 20% X7R SMD	061365	PB7	SWITCH TACT	150058
C2	CAP MONO .1UF 50V 20% X7R SMD	061365		CABLE FLAT FLEXIBLE 18 PIN	171446
C3	CAP MONO .1UF 50V 20% X7R SMD	061365	PCB1	PC BD DISPLAY	129971
C4	CAP 220PF 200V 10% NPO SMD0805	061369	R1	RES SMD0805 150 1/8W 1%	145019
C5	CAP 220PF 200V 10% NPO SMD0805	061369	R2	RES SMD0805 150 1/8W 1%	145019
C6	CAP 220PF 200V 10% NPO SMD0805	061369	R3	RES SMD0805 150 1/8W 1%	145019
C7	CAP MONO .1UF 50V 20% X7R SMD	061365	R4	RES SMD0805 150 1/8W 1%	145019
C8	CAP ELECT 47UF 50V SMD	066604	R5	RES SMD0805 150 1/8W 1%	145019
C9	CAP MONO .1UF 50V 20% X7R SMD	061365	R6	RES SMD0805 100 1/8W 1%	145005
C10	CAP MONO .1UF 50V 20% X7R SMD	061365	R7	RES SMD0805 0 1/8W 0%	145016
C11	CAP .01UF 50V 20% NPO SMD0805	061372	R8	RES SMD0805 100 1/8W 1%	145005
C12	CAP MONO .1UF 50V 20% X7R SMD	061365	R9	RES SMD0805 2.21K 1/8W 1%	145024
C13	CAP .01UF 50V 20% NPO SMD0805	061372	R10	RES SMD0805 2.21K 1/8W 1%	145024
C14	CAP MONO .1UF 50V 20% X7R SMD	061365	R11	RES SMD0805 2.21K 1/8W 1%	145024
C15	CAP .01UF 50V 20% NPO SMD0805	061372	R12	RES SMD0805 2.21K 1/8W 1%	145024
C16	CAP MONO .1UF 50V 20% X7R SMD	061365	R13	RES SMD0805 2.21K 1/8W 1%	145024
C17	CAP .01UF 50V 20% NPO SMD0805	061372	R14	RES SMD0805 0 1/8W 0%	145016
C18	CAP ELECT 47UF 50V SMD	066604	R15	RES SMD0805 100 1/8W 1%	145005
C19	CAP MONO .1UF 50V 20% X7R SMD	061365	R16	RES SMD0805 0 1/8W 0%	145016
C23	CAP ELECT 47UF 50V SMD	066604	R18	RES SMD0805 100 1/8W 1%	145005
DS1	ASSY PCB VFD 2 X 20 9 PIN	750932	R20	RES SMD0805 100 1/8W 1%	145005
(DS1)	SCR TS 2-32 X 5/16 PH PN BLK	401118	R22	RES SMD0805 100 1/8W 1%	145005
DS2	LED GREEN 5MM 30 DEG	058190	R24	RES SMD0805 100 1/8W 1%	145005
(DS2)	SPACER LED	112108	R26	RES SMD0805 100 1/8W 1%	145005
DS3	LED GREEN 5MM 30 DEG	058190	R28	RES SMD0805 100 1/8W 1%	145005
(DS3)	SPACER LED	112108	R30	RES SMD0805 100 1/8W 1%	145005
DS4	LED GREEN 5MM 30 DEG	058190	R31	RES SMD0805 22.1K 1/8W 1%	145012
(DS4)	SPACER LED	112108	R32	RES SMD0805 100 1/8W 1%	145005
DS5	LED GREEN 5MM 30 DEG	058190	R33	RES SMD0805 100 1/8W 1%	145005
(DS5)	SPACER LED	112108	R37	RES SMD0805 22.1K 1/8W 1%	145012
DS6	LED GREEN 5MM 30 DEG	058190	R38	RES SMD0805 22.1K 1/8W 1%	145012
(DS6)	SPACER LED	112108	R39	RES SMD0805 100 1/8W 1%	145005
DS7	LED RED 5MM ROUND	058187	R40	RES SMD0805 22.1K 1/8W 1%	145012
(DS7)	SPACER LED 1/8IN L	017672	R41	RES SMD0805 22.1K 1/8W 1%	145012
DS8	LED RED 5MM ROUND	058187	R42	RES SMD0805 100 1/8W 1%	145005
(DS8)	SPACER LED 1/8IN L	017672	R43	RES SMD0805 22.1K 1/8W 1%	145012
DS9	LED RED 5MM ROUND	058187	R44	RES SMD0805 22.1K 1/8W 1%	145012
(DS9)	SPACER LED 1/8IN L	017672	R45	RES SMD0805 100 1/8W 1%	145005
DS10	LED RED 5MM ROUND	058187	R46	RES SMD0805 22.1K 1/8W 1%	145012
(DS10)	SPACER LED 1/8IN L	017672	R47	RES SMD0805 22.1K 1/8W 1%	145012
DS11	LED RED 5MM ROUND	058187	R48	RES SMD0805 100 1/8W 1%	145005
(DS11)	SPACER LED 1/8IN L	017672	R49	RES SMD0805 22.1K 1/8W 1%	145012
J1	CONN 9 PIN FEMALE BOTTOM MOUNT	117987	S1	SWITCH ROT ENCODER 24 DETENT	146255
J2	CONN 30 PIN BOXED HEADER	117896	S2	SWITCH ROT ENCODER 24 DETENT	146255
J3	CONN 18 PIN FFC SMD	118003	U4	IC SINGLE AND	133502
J4	CONN 18 PIN FFC SMD	118003	U1	IC SINGLE 2 INPUT AND GATE SMD	133552
L1	FERRITE 120 OHM 5 AMP SMD	076025	U2	IC SINGLE 2 INPUT AND GATE SMD	133552
MT1	IR SENSOR 38KHZ 3V-5V	121066	U3	IC SINGLE 2 INPUT AND GATE SMD	133552
PB1	SWITCH TACT	150058	U5	IC SINGLE NAND SCHMITT SMD	133724
PB2	SWITCH TACT	150058	U6	IC SINGLE NAND SCHMITT SMD	133724
PB3	SWITCH TACT	150058	U7	IC SINGLE NAND SCHMITT SMD	133724
PB4	SWITCH TACT	150059	U8	IC SINGLE NAND SCHMITT SMD	133724
PB5	SWITCH TACT	150058			
PB6	SWITCH TACT	150058			

REPACKING INSTRUCTIONS

In the event it is necessary to repack the equipment for shipment, the equipment must be packed exactly as shown below. It is very important that the four plastic feet are attached to the bottom of the equipment. Four 1/4 - 20x2-1/4 inch screws and washers must be used to fasten the unit securely to the bottom pad and wood skid. This will ensure the proper equipment location on the bottom pad. Failure to do this will result in shipping damage.

Use the original shipping carton and interior parts only if they are all in good serviceable condition. If a shipping carton or any of the interior part(s) are needed, please call or write Customer Service Department of McIntosh Laboratory. Refer to page 3. Please see the Part List for the correct part numbers.

Quantity	Part Number	Description
1	034492	Shipping carton only
4	033837	End cap
1	033836	Inside carton only
1	033725	Inner carton top pad
1	034301	Bottom pad
2	034446	Foam plug
4	017937	Plastic foot
4	400159	#10-32 x 3/4" screw
4	404080	#10 Flat washer
1	034499	Accessory Box
2	034500	Slotted foam
1	034501	Divider foam



MEN220

ROOM CORRECTION SYSTEM

SERIAL NO. ZN1001 And Above



The continuous improvement of its products is the policy of McIntosh Laboratory Incorporated, who reserve the right to improve design without notice. Because of the constant upgrading of McIntosh products' circuitry and components, the Company cannot insure, and does not warrant, the accuracy of the within schematic material, which is intended for information only.

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