

Service Manual



Direct Box

DIB-6000



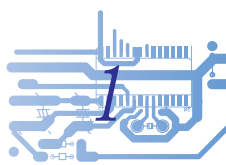
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SPECIFICATIONS

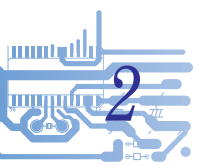
	DIB-6000
INTERFACE	USB
MIC IN (Balance) to Line OUT (Balance)	
INPUT SENSITIVITY	-60dB
THD+N	Less than 0.5%
FREQUENCY RESPONSE	70Hz ~ 10kHz
S/N	Better than 50dB
LINE IN (Unbalance) to Line OUT (Balance)	
INPUT SENSITIVITY	+1.4dB
THD+N	Less than 0.2%
FREQUENCY RESPONSE	40Hz ~ 12kHz
S/N	Better than 80dB
LINE IN (Balance) to LINE OUT (Unbalance)	
INPUT SENSITIVITY	+1.4dB
THD+N	Less than 0.1%
FREQUENCY RESPONSE	40Hz ~ 20kHz
S/N	Better than 80dB
Communications Protocol	RS-485 (Maximum: 1Km / 3,280 feet)
Operation Temperature	-10°C ~ +40°C / 14°F ~ 104°F
Power Source	USB DC 5V
Weight (Set)	0.74kg / 1.7lbs
Dimensions (Set)	140(W) x 43(H) x 140(D)mm / 5.5(W) x 1.7(H) x 5.5(D)in

* Specifications and design subject to change without notice.



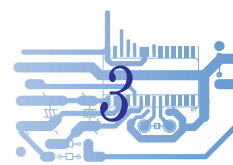
ELECTRICAL PARTS LIST

REF	ITEM NO.	DEFINE	VALUE
MAIN B'D			
BKT1	113432	BK/113432	Bracket
C1	120353	CE120P50J/1608	120P
C10	120246	CE0.1U50Z/1608	0.1U
C11	120246	CE0.1U50Z/1608	0.1U
C12	120398	CE56P50J/1608	56P
C13	120246	CE0.1U50Z/1608	0.1U
C14	120246	CE0.1U50Z/1608	0.1U
C15	120246	CE0.1U50Z/1608	0.1U
C16	120122	EC100U16M/RC	100/16
C17	122854	TT33U10M/B	Oct-33
C18	120246	CE0.1U50Z/1608	0.1U
C19	120415	CE0.01U50K/1608	0.01U
C2	120246	CE0.1U50Z/1608	0.1U
C20	120122	EC100U16M/RC	100/16
C21	120415	CE0.01U50K/1608	0.01U
C22	120246	CE0.1U50Z/1608	0.1U
C23	120145	EC4.7U16M/RC	4.7/16
C24	120145	EC4.7U16M/RC	4.7/16
C25	120127	EC1U50M/RC	1/50
C26	120127	EC1U50M/RC	1/50
C27	120404	CE68P50J/1608	68P
C28	120120	EC100U6.3M/RC	100/6.3
C29	120390	CE470P50J/1608	470P
C3	120246	CE0.1U50Z/1608	0.1U
C30	120132	EC220U16M/RC	220/16
C35	120144	EC47U6.3M/RC	47/6.3
C38	120369	CE220P50J/1608	220P
C39	120369	CE220P50J/1608	220P
C4	120411	CE820P50J/1608	820P
C40	120246	CE0.1U50Z/1608	0.1U
C42	120385	CE390P50J/1608	390P
C46	120134	EC2.2U50M/RC	2.2/50
C47	120427	CE0.015U50K/1608	0.015U
C48	120144	EC47U6.3M/RC	47/6.3
C49	120134	EC2.2U50M/RC	2.2/50
C5	120404	CE68P50J/1608	68P
C51	120132	EC220U16M/RC	220/16
C52	120398	CE56P50J/1608	56P
C53	120351	CE100P50J/1608	100P
C55	120351	CE100P50J/1608	100P
C56	120246	CE0.1U50Z/1608	0.1U
C57	122854	TT33U10M/B	Oct-33
C58	120247	CE0.1U50Z/2012	0.1U
C59	120192	TT22U16M/B	22/16
C6	120390	CE470P50J/1608	470P
C60	120246	CE0.1U50Z/1608	0.1U
C62	120250	CE1U10Z/1608	01_10_
C63	120132	EC220U16M/RC	220/16
C64	120246	CE0.1U50Z/1608	0.1U
C69	120247	CE0.1U50Z/2012	0.1U
C7	120390	CE470P50J/1608	470P
C70	120192	TT22U16M/B	22/16
C8	120127	EC1U50M/RC	1/50
C9	120127	EC1U50M/RC	1/50
C998	120413	CE0.001U2KZ/3216	0.001U
C999	120413	CE0.001U2KZ/3216	0.001U



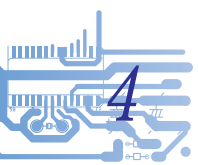
ELECTRICAL PARTS LIST

REF	ITEM NO.	DEFINE	VALUE
CN1	111045	15P/FE-BT/1.25	FEBT-15P (ST)
CN2	111045	15P/FE-BT/1.25	FEBT-15P
D1	119171	D/1N4148/SOT23	1N4148
D2	119171	D/1N4148/SOT23	1N4148
D3	127489	AD/SP0503BAHT/SOT143	SP0503BAHT
D4	119171	D/1N4148/SOT23	1N4148
F1	120454	2200PF/EMI/120454	2200pF
F2	120454	2200PF/EMI/120454	2200pF
F3	120454	2200PF/EMI/120454	2200pF
F4	120454	2200PF/EMI/120454	2200pF
FB1	119251	120OHM/HB-1M2012-121JT/2012	120ohm
FB2	119251	120OHM/HB-1M2012-121JT/2012	120ohm
FB3	119251	120OHM/HB-1M2012-121JT/2012	120ohm
FB4	119251	120OHM/HB-1M2012-121JT/2012	120ohm
FB5	119251	120OHM/HB-1M2012-121JT/2012	120ohm
FB6	119251	120OHM/HB-1M2012-121JT/2012	120ohm
FB7	119251	120OHM/HB-1M2012-121JT/2012	120ohm
FB8	119251	120OHM/HB-1M2012-121JT/2012	120ohm
FB9	119251	120OHM/HB-1M2012-121JT/2012	120ohm
FT1	119284	330UH/1009/CHOKE/119284	330uH
IC1	118707	NJM2068M/DMP08P	NJM2068M
IC2	118707	NJM2068M/DMP08P	NJM2068M
IC29	127045	MAX487CSA/SOP08P/2	MAX487CSA
IC3	118707	NJM2068M/DMP08P	NJM2068M
IC4	118707	NJM2068M/DMP08P	NJM2068M
IC5	127488	LM2660MM/SOP08P/2	LM2660MM
IC6	126543	CP2102/QFN28P/3	CP2102
IC7	118949	HEF4053BT/SOP16P/2	HEF4053BT
IC8	127045	MAX487CSA/SOP08P/2	MAX487CSA
JCK12	110823	MD/5621/08H/110823	MODULAR08P
JCK13	110823	MD/5621/08H/110823	MODULAR08P
JK1	111675	XLR/F/E303A0070N	XLR/F
JK2	110898	XLR/M/E403A0090N	XLR/M
JK3	111610	PHN04P/111610	PHONE04P
JK4	111675	XLR/F/E303A0070N	XLR/F
JK5	111610	PHN04P/111610	PHONE04P
JK6	111464	USB04P/03/111464	USB04P
K1	124870	5V/TN2-H-5V/S2L1	5V
K2	124870	5V/TN2-H-5V/S2L1	5V
K3	124870	5V/TN2-H-5V/S2L1	5V
LED1	103260	LD/R/3T/BL-C9/JE-5V1E	BL-C9/JE-5V1E
MT1	103622	MT/103622	103622
Q1	118642	NPN/KTC3875S-Y/SOT23	KTC3875S-Y
Q2	118642	NPN/KTC3875S-Y/SOT23	KTC3875S-Y
Q3	118670	NPN/KTD1304/SOT23	KTD1304
Q4	118656	PNP/KRA107S/SOT23	KRA107S
Q5	118642	NPN/KTC3875S-Y/SOT23	KTC3875S-Y
Q6	118642	NPN/KTC3875S-Y/SOT23	KTC3875S-Y
Q7	118642	NPN/KTC3875S-Y/SOT23	KTC3875S-Y
Q8	118642	NPN/KTC3875S-Y/SOT23	KTC3875S-Y
R1	119366	R10KJ/1608	10K
R10	119629	R47KJ/1608	47K
R11	119629	R47KJ/1608	47K
R12	119624	R4.7KJ/1608	4.7K
R120	119616	R47J/1608	47
R123	119625	R4.7KJ/2012	4.7K
R125	119616	R47J/1608	47



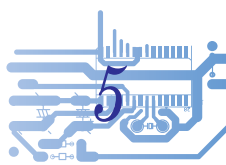
ELECTRICAL PARTS LIST

REF	ITEM NO.	DEFINE	VALUE
R13	119629	R47KJ/1608	47K
R14	119454	R1.8KJ/1608	1.8K
R142	119513	R240J/2012	240
R15	119629	R47KJ/1608	47K
R16	119624	R4.7KJ/1608	4.7K
R17	119629	R47KJ/1608	47K
R18	119454	R1.8KJ/1608	1.8K
R2	119366	R10KJ/1608	10K
R21	119616	R47J/1608	47
R22	119526	R2.7KJ/1608	2.7K
R23	119334	R0J/2012	0
R24	119366	R10KJ/1608	10K
R25	119624	R4.7KJ/1608	4.7K
R26	119366	R10KJ/1608	10K
R27	119624	R4.7KJ/1608	4.7K
R28	119624	R4.7KJ/1608	4.7K
R29	119522	R270J/1608	270
R3	119460	R18KJ/1608	18K
R30	119634	R470KJ/1608	470K
R31	119731	R7.5KJ/1608	7.5K
R32	119629	R47KJ/1608	47K
R33	119366	R10KJ/1608	10K
R34	119366	R10KJ/1608	10K
R35	119334	R0J/2012	0
R36	119366	R10KJ/1608	10K
R37	119366	R10KJ/1608	10K
R38	119624	R4.7KJ/1608	4.7K
R39	119624	R4.7KJ/1608	4.7K
R4	119634	R470KJ/1608	470K
R40	119625	R4.7KJ/2012	4.7K
R42	119352	R100J/1608	100
R43	119352	R100J/1608	100
R44	119361	R1KJ/1608	1K
R45	119440	R1.5MJ/2012	1.5M
R46	119579	R33KJ/1608	33K
R47	119624	R4.7KJ/1608	4.7K
R48	119534	R270KJ/1608	270K
R49	119427	R15KJ/1608	15K
R5	119624	R4.7KJ/1608	4.7K
R50	119710	R68KJ/1608	68K
R51	119490	R220J/1608	220
R53	119334	R0J/2012	0
R56	119629	R47KJ/1608	47K
R59	119701	R680J/2012	680
R6	119526	R2.7KJ/1608	2.7K
R61	119629	R47KJ/1608	47K
R62	119624	R4.7KJ/1608	4.7K
R7	119624	R4.7KJ/1608	4.7K
R73	119629	R47KJ/1608	47K
R76	119616	R47J/1608	47
R77	119616	R47J/1608	47
R78	119366	R10KJ/1608	10K
R79	119629	R47KJ/1608	47K
R8	119395	R1.2KJ/1608	1.2K
R81	119513	R240J/2012	240
R82	119498	R22KJ/1608	22K
R83	119498	R22KJ/1608	22K

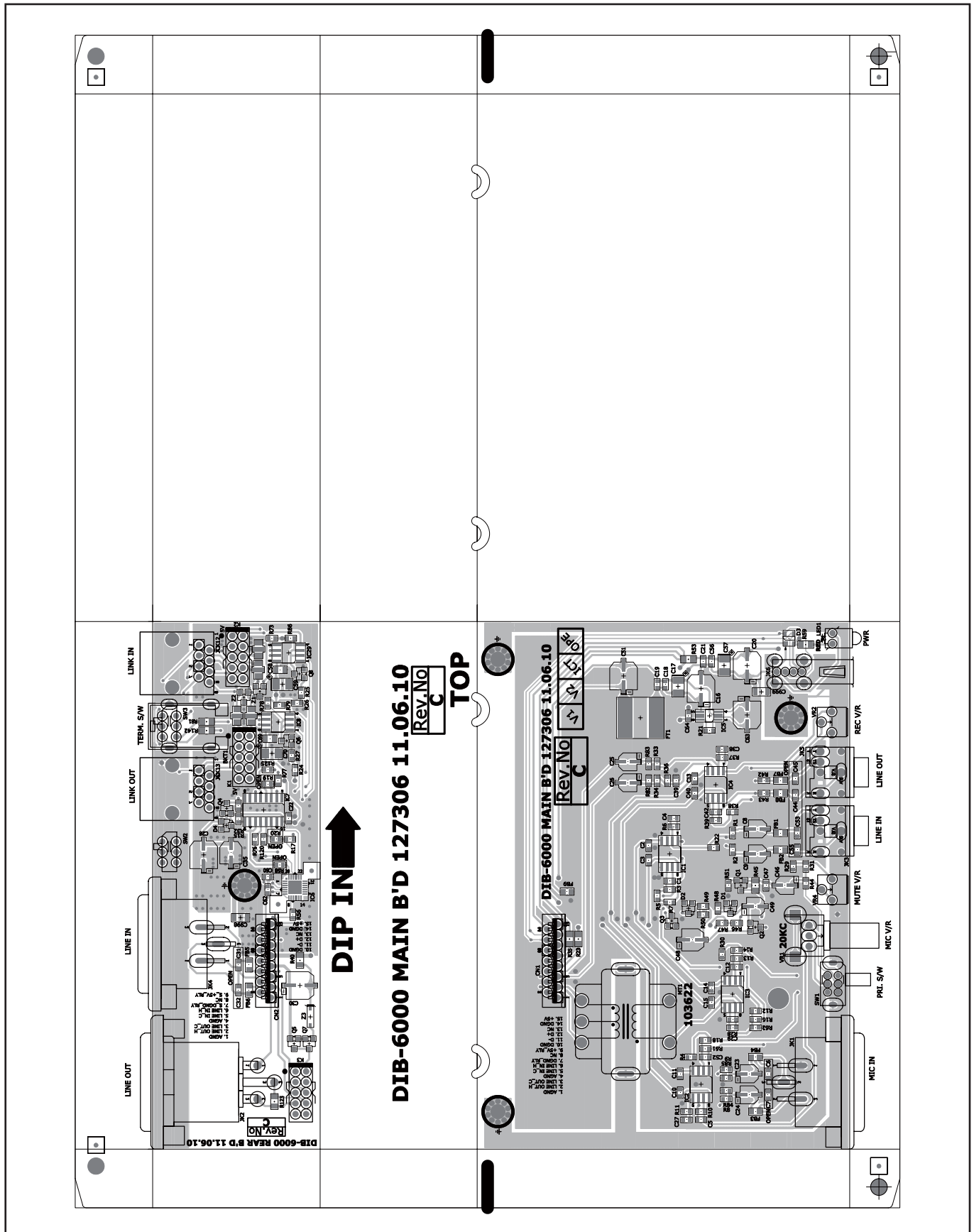


ELECTRICAL PARTS LIST

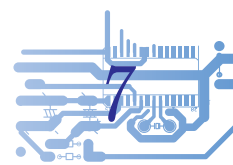
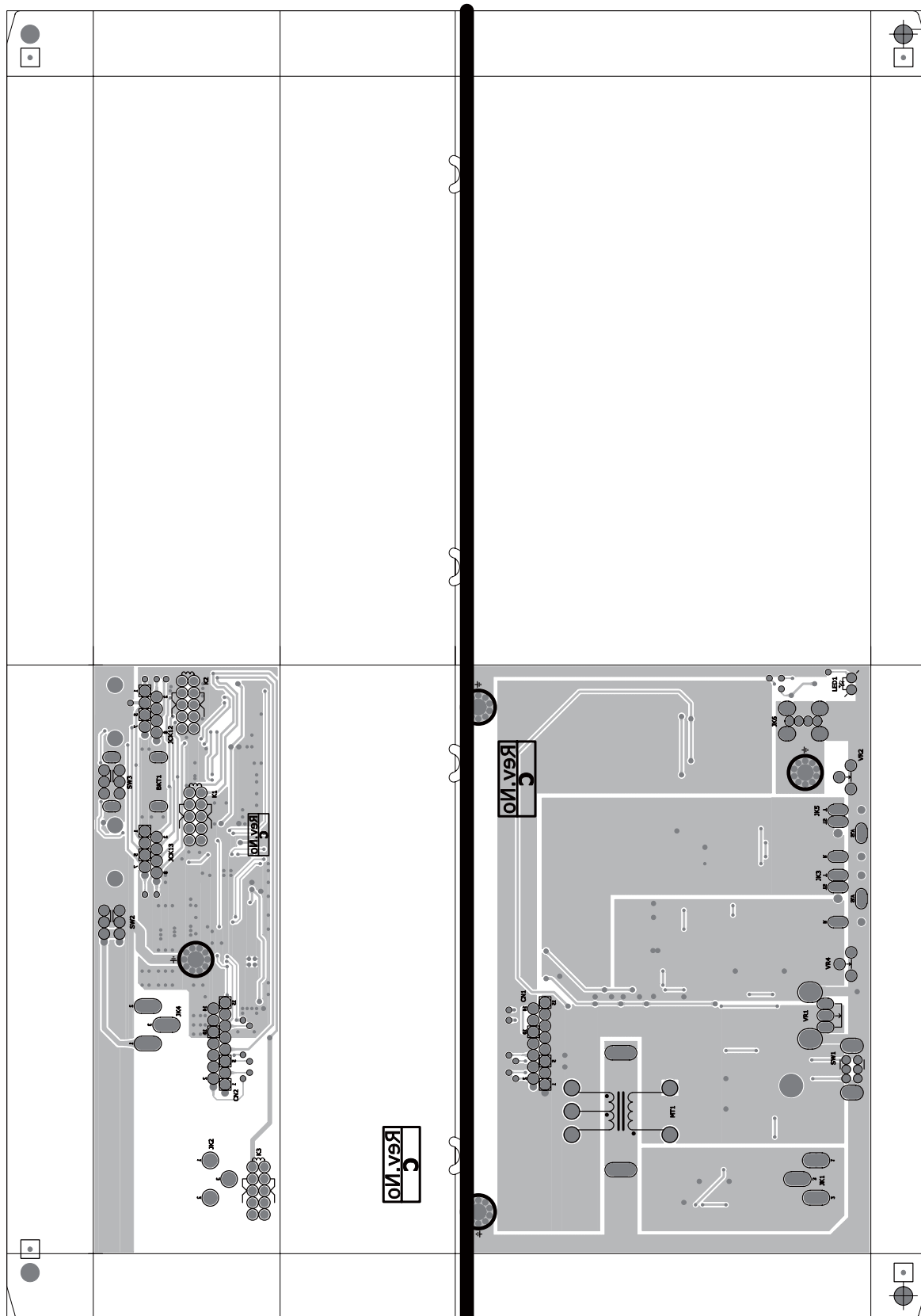
REF	ITEM NO.	DEFINE	VALUE
R84	119624	R4.7KJ/1608	4.7K
R85	119624	R4.7KJ/1608	4.7K
R86	119366	R10KJ/1608	10K
R9	119395	R1.2KJ/1608	1.2K
SW1	112022	SL/JSS-2208A	JSS-2208A
SW2	112057	SL/CSS-2214	CSS-2214
SW3	112057	SL/CSS-2214	CSS-2214
VR1	104944	103B/09/XV09211NPP20U	20KC
VR2	105327	103/SEM/FT-63TS	10K
VR4	105341	502/SEM/FT-63TS	5K
Z1	123668	SM712/SOT23	
Z2	123668	SM712/SOT23	
Z3	119205	ZD/UZ2.4V/SOD123	2.4V
WIRING B'D			
	106815	CARD CABLE,FFC,15P,P1.25,PL/PL,70MM	



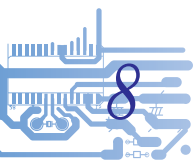
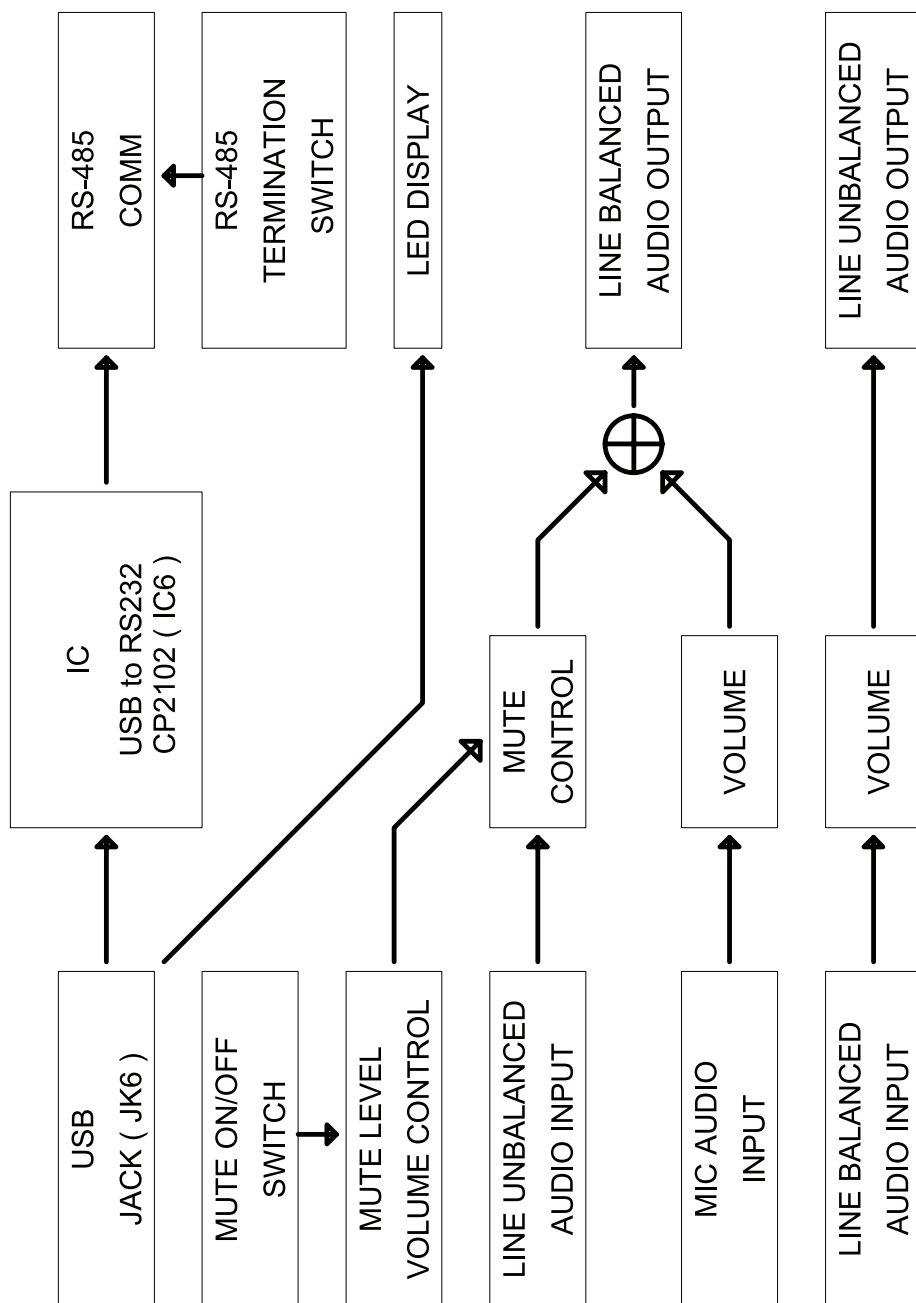
TOP & BOTTOM VIEW OF P.C BOARD



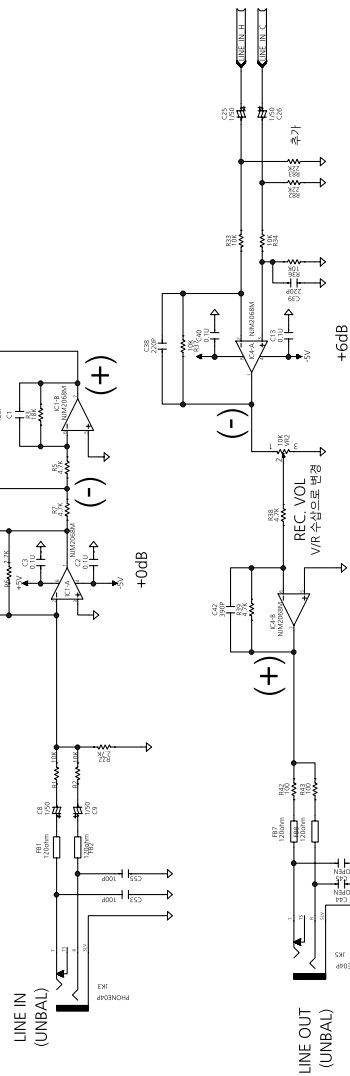
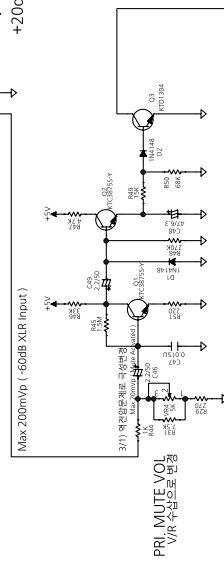
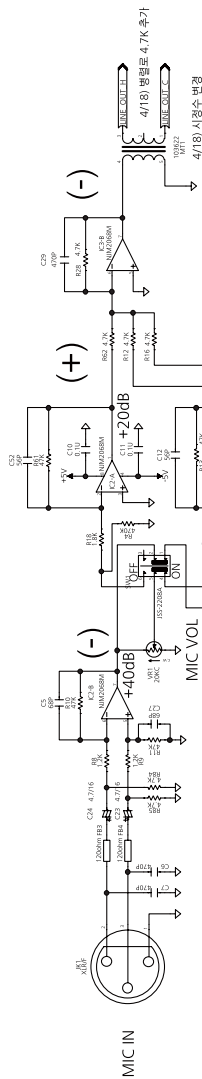
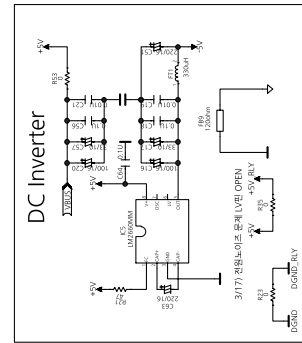
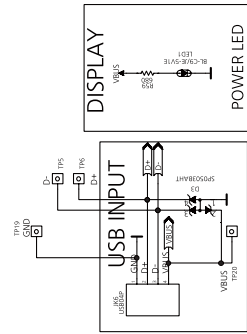
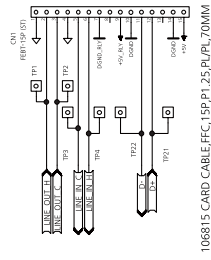
TOP & BOTTOM VIEW OF P.C BOARD



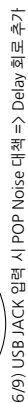
BLOCK DIAGRAM



SCHEMATIC DIAGRAM



10



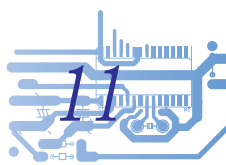
WIRING DIAGRAM

REAR B'D

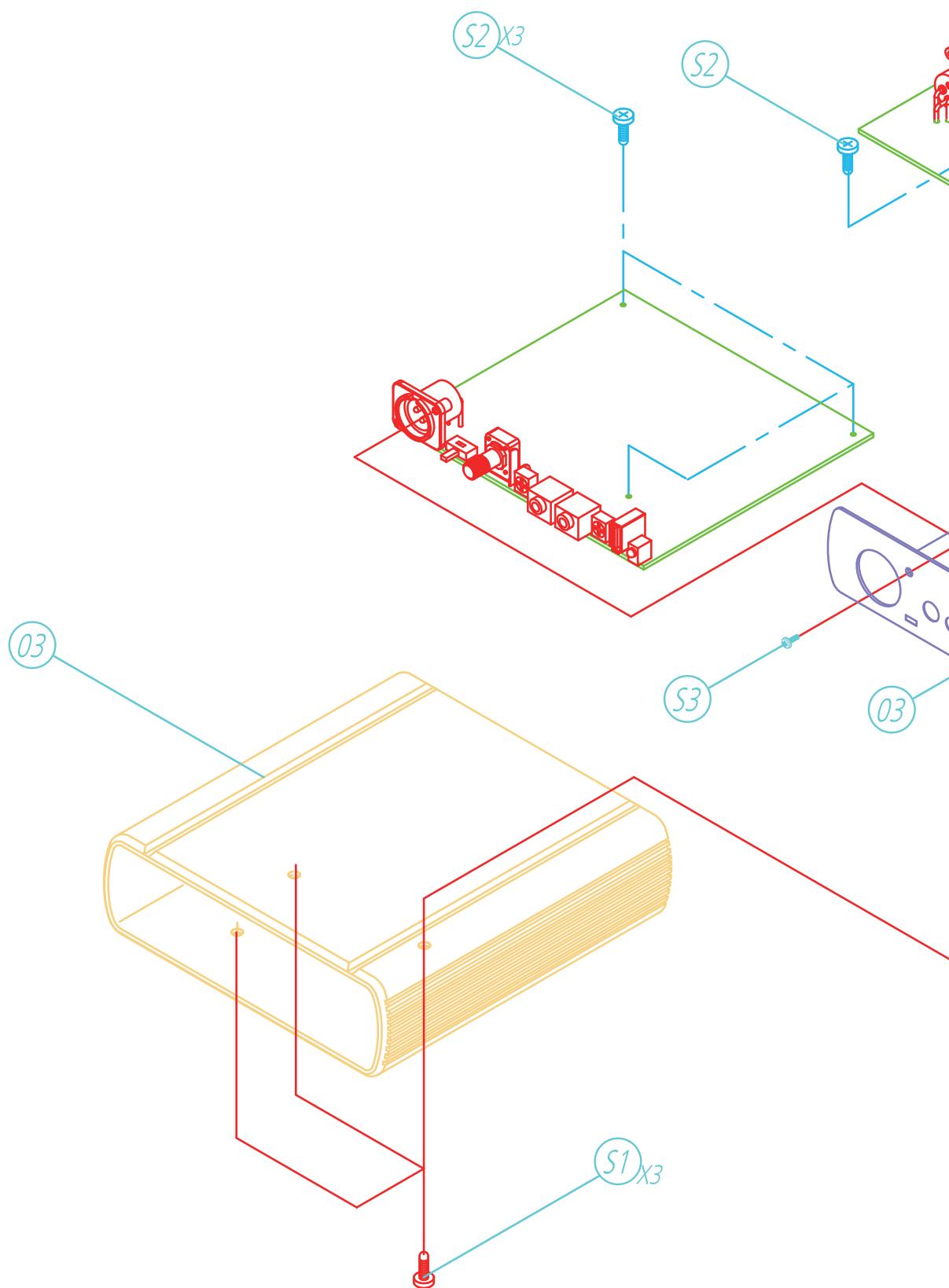


CN1

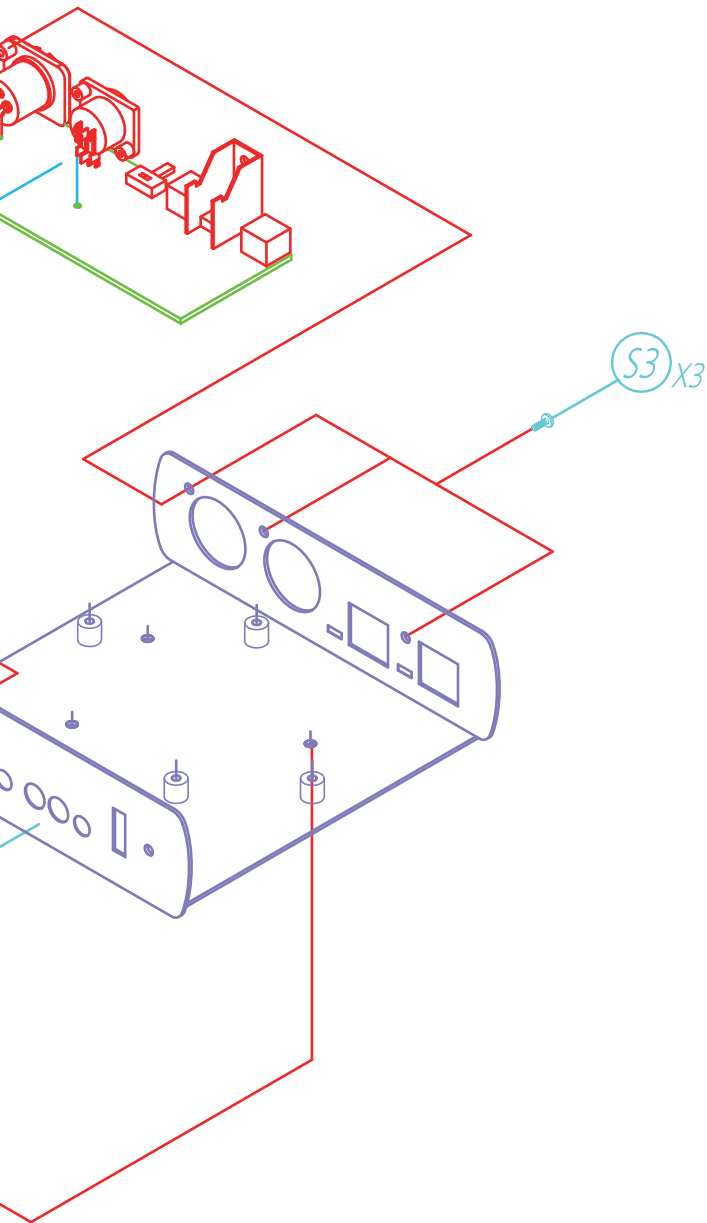
MAIN B'D(127306)



EXPLODED VIEW OF CABINET & CHASSIS/MECHANICAL PARTS LIST



EXPLODED VIEW OF CABINET & CHASSIS/MECHANICAL PARTS LIST



S3	SCREW #2BTC 3X8B	114465	4	
S2	ASS'Y SCREW (PM 3X8N)	114439	4	
S1	3.0,06,FM 3X6B,ROHS	114346	3	
02	FRONT PANEL	2000941	1	
01	MAIN CHASSIS	126902	1	
No.	PART NAME	PART NO.	Q'TY	REMARK

