

Service Manual



Local Machine

NLM-8000A

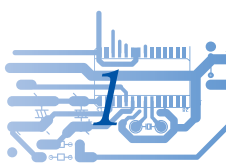
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SPECIFICATIONS

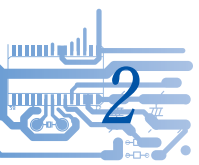
	NLM-8000A
Input Sensitivity	MIC : -50dBu/2k Ω LINE : -10dBu/10k Ω
Output Level	Normal : 0dBu
Signal to Noise Ratio (20kHz LPF)	MIC : More than 60dB LINE : More than 75dB
THD (20kHz LPF)	MIC : Less than 0.5% LINE : Less than 0.2%
Frequency Response (50Hz ~ 18kHz)	0dBu $\pm$ 3dB
Power Source	DC 40V
Power consumption	2W
Weight(Set)	136g/0.3lb
Dimensions(Set)	70(W) x 115(H) x 51.9(D)mm/ 2.7(W) x 4.5(H) x 2(D)in

* Design and specification are subject to be changed for the improvement of product quality without pre notice.



ELECTRICAL PARTS LIST

REF	ITEM NO.	DEFINE	VALUE
MAIN			
FB301	103528	100MHZ/BEAD/103528,100MHz	100MHz
R109-110	104332	R4.7KJ/A,4.7K	4.7K
VR101	104927	103C/09/XV09213NPV30F,10KC	10KC
CON201-202	110821	MD/PCB825/08H/110821,MODULAR08P	MODULAR08P
CON102	111685	RCA/JK56CN/02V/R/111685,RCA02P	RCA02P
SW101	112007	PU/JPS2281-EAB,JPS2281EAB	JPS2281EAB
LIM1	114989	LIMITER/5.5/23.2/114989,23.2mm	23.2mm
Q103-105	118663	PNP/2N3906S/SOT23,2N3906S	2N3906S
IC101	118707	NJM2068M/DMP08P,NJM2068M	NJM2068M
IC100 IC201	118730	NJM072M/DMP08P,NJM072M	NJM072M
D303	119182	D/SX34/SMA,SX34	SX34
D101-104 D302	119190	D/BAS21/SOT23,BAS21	BAS21
L301	119250	15UH/SHP0760P,15uH	15uH
R111	119352	R100J/1608,100	100
R107-108 R313	119361	R1KJ/1608,1K	1K
R112 R116 R201-208 R211-212	119366	R10KJ/1608,10K	10K
R123-124	119367	R10KJ/2012,10K	10K
R103 R118 R311	119369	R100KJ/1608,100K	100K
R113	119419	R150J/1608,150	150
R303	119422	R1.5KJ/1608,1.5K	1.5K
R301	119475	R20KJ/1608,20K	20K
R2 R459	119496	R2.2KJ/1608,2.2K	2.2K
R120-122 R128-129	119498	R22KJ/1608,22K	22K
R105-106 R114-115	119530	R27KJ/1608,27K	27K
R117	119579	R33KJ/1608,33K	33K
R125-126	119580	R33KJ/2012,33K	33K
R315	119624	R4.7KJ/1608,4.7K	4.7K
R308	119629	R47KJ/1608,47K	47K
R130 R213	119645	R4.7J/2012,4.7	4.7
R309-310	119653	R5.1KJ/1608,5.1K	5.1K
R101-102	119655	R5.1KJ/2012,5.1K	5.1K
R119	119696	R68J/1608,68	68
R104	119706	R6.8KJ/1608,6.8K	6.8K
R127	119710	R68KJ/1608,68K	68K
R209-210	119739	R82J/1608,82	82
C109	120100	EC47U6.3M/JC,47/6.3	47/6.3
C304 C309	120116	EC47U50M/SC,47/50	47/50
C119	120117	EC10U16M/RC,10/16	10월 16일
C205-206	120120	EC100U6.3M/RC,100/6.3	100/6.3
C113 C307	120250	CE1U50K/1608,1U	1U
C201-204	120351	CE100P50J/1608,100P	100P
C101-102 C107-108	120369	CE220P50J/1608,220P	220P
C110-111 C120	120377	CE33P50J/1608,33P	33P
C118	120378	CE33P50J/2012,33P	33P
C103 C106	120390	CE470P50J/1608,470P	470P
C115-116	120391	CE470P50J/2012,470P	470P
C112 C306	120415	CE0.01U50K/1608,0.01U	0.01U
C2 C302 C305 C310-312	120419	CE0.1U50K/1608,0.1U	0.1U
C121 C123 C207	120421	CE0.1U50K/2012,0.1U	0.1U
Z1	127303	ZD/15V/Z02W/SOT23,15V	15V
FB101-102 FB201-202	127459	120OHM/BEAD/127459,120ohm	120ohm
C104-105 C114 C117	127575	MA1U63J/CEM/T,1/63(M)	1/63(M)
R302	128443	R6.2KJ/1608,6.2K	6.2K
D301	128444	ZD/5.6V/350MW/SOT23,5.6V	5.6V
R304-307	129194	R0.02F/2012,0.02 1%	0.02 1%
C303	129255	CE0.47U16M/1608,0.47U16	0.47U16
LD301	129959	LD/G/1608/BL-HGE36A,BL-HGE36A	BL-HGE36A
LD101	129968	LD/R/1608/BL-HUE36A,BL-HUE36A	BL-HUE36A
R312	132851	R24KF/2012,24K 1%	24K 1%
IC203	136256	LM22672/SOP08P/2,LM22672	LM22672
IC202	136817	LM5069/TSSOP10P/2,LM5069	LM5069
LD102	137233	LD/R/3T/BL-B4541-NP-AT,BL-B4541-NP-AT	BL-B4541-NP-AT
CON101	138042	XLR/F/NC3FAV1-0,XLR/F	XLR/F
Q101-102	138053	PNP/BC860B/SOT23,BC860B	BC860B



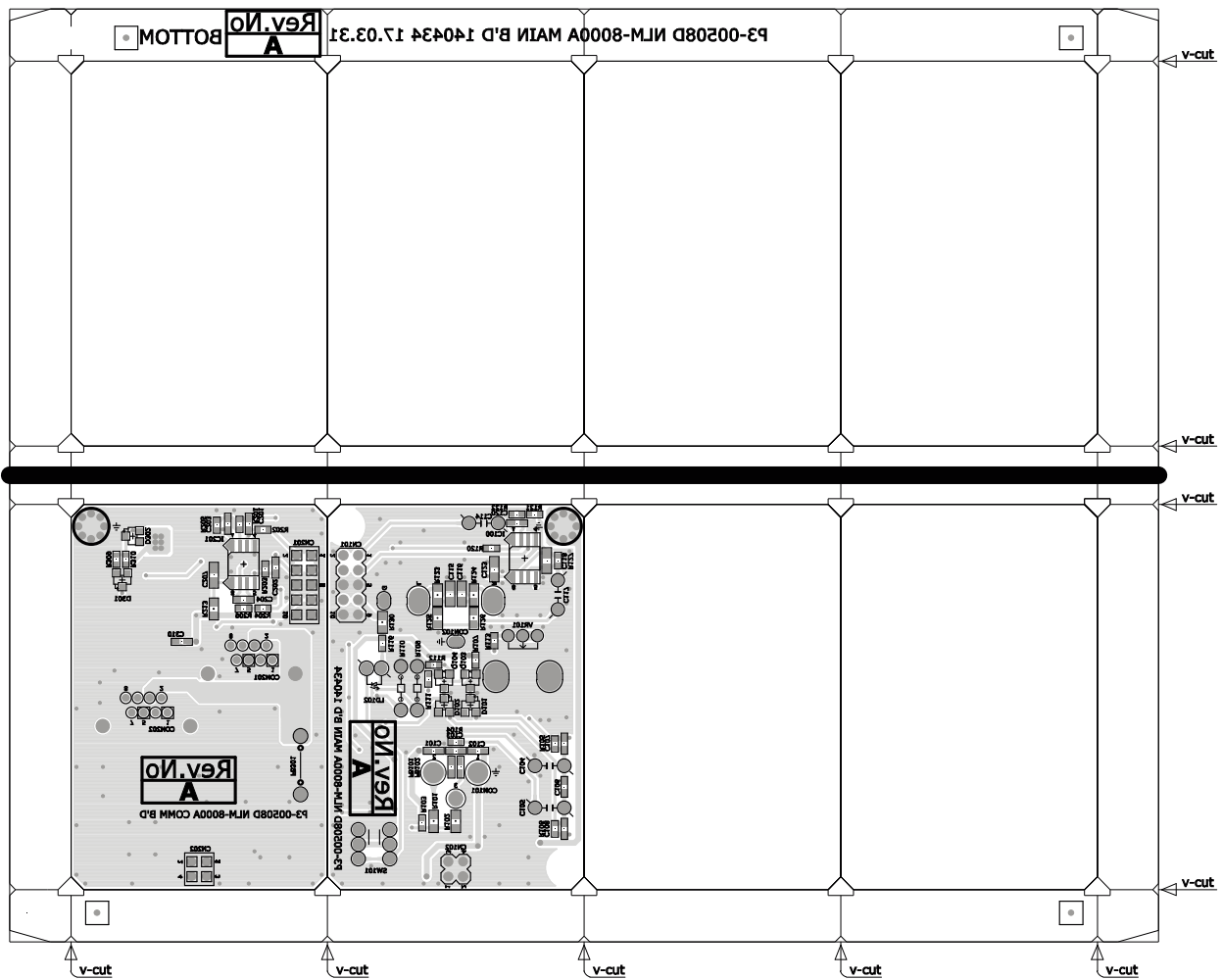
ELECTRICAL PARTS LIST

REF	ITEM NO.	DEFINE	VALUE
Q201	138155	N/IRF7855/SO8,IRF7855	IRF7855
CN101	139781	10P/PHTPH03-100/10,TPH03-100-10P	TPH03-100-10P
CN201	139782	10P/TSS-254-10A,TSS-254-10P	TSS-254-10P
CN102	140182	04P/PHTPH03-100/10,TPH03-100-04P	TPH03-100-04P
CN202	140183	04P/TSS-254-04A,TSS-254-04P	TSS-254-04P



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REVISION HISTORY			
NO	E.S	DATE	2015.12.24
NO	E.S2	DATE	2016.03.31
NO	P.P	DATE	2016.06.17
NO	W.P	DATE	2016.09.23
NO	Rev.A	DATE	2017.03.31
NO	-	DATE	-
NO	-	DATE	-
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NO	-	DATE	-

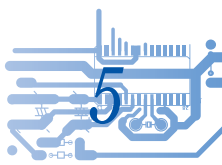
TOP & BOTTOM VIEW OF P.C BOARD



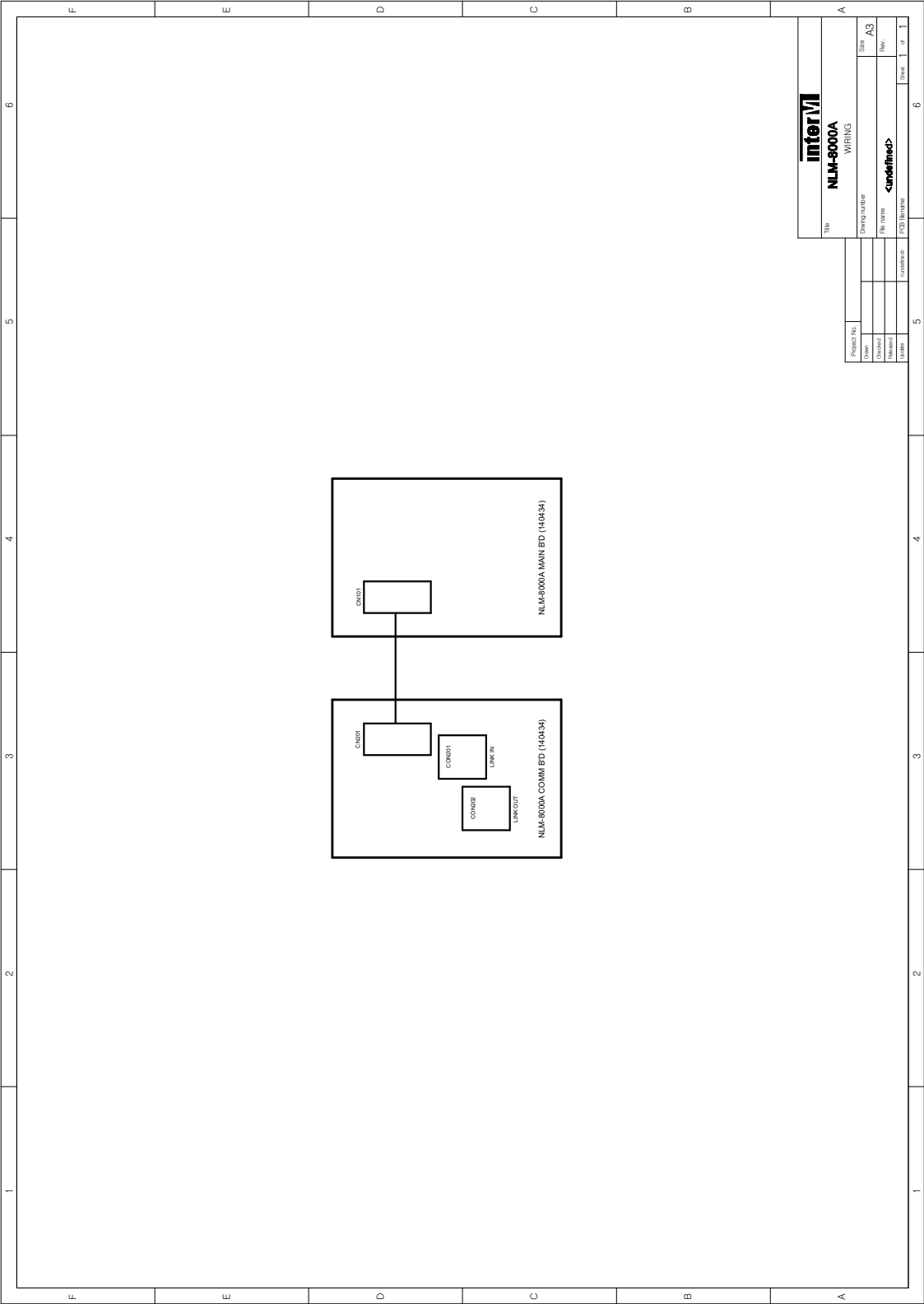
GERBER NAME	Silkscreen Bottom
MODEL	NLM-8000A
B'D	MAIN
ITEM NO	140434
STEP	M.P
Rev. NO	A
SIZE	197 X 160
ARRAY	4Pair 1Piece
KIND	FR-4
THICKNESS	1.6 T
LAYER	2LAYER
COPPER	1 OZ
PLATING	Pt-Free (FLUX)
DATE	2017.03.31
DRAWN	Kang Hoon
TEL	02-2289-8234
E-mail	derk0018@inter-m.com
PCB Maker	SK Tech

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http://www.inter-m.com/

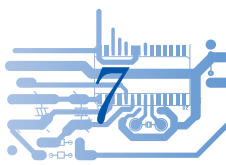
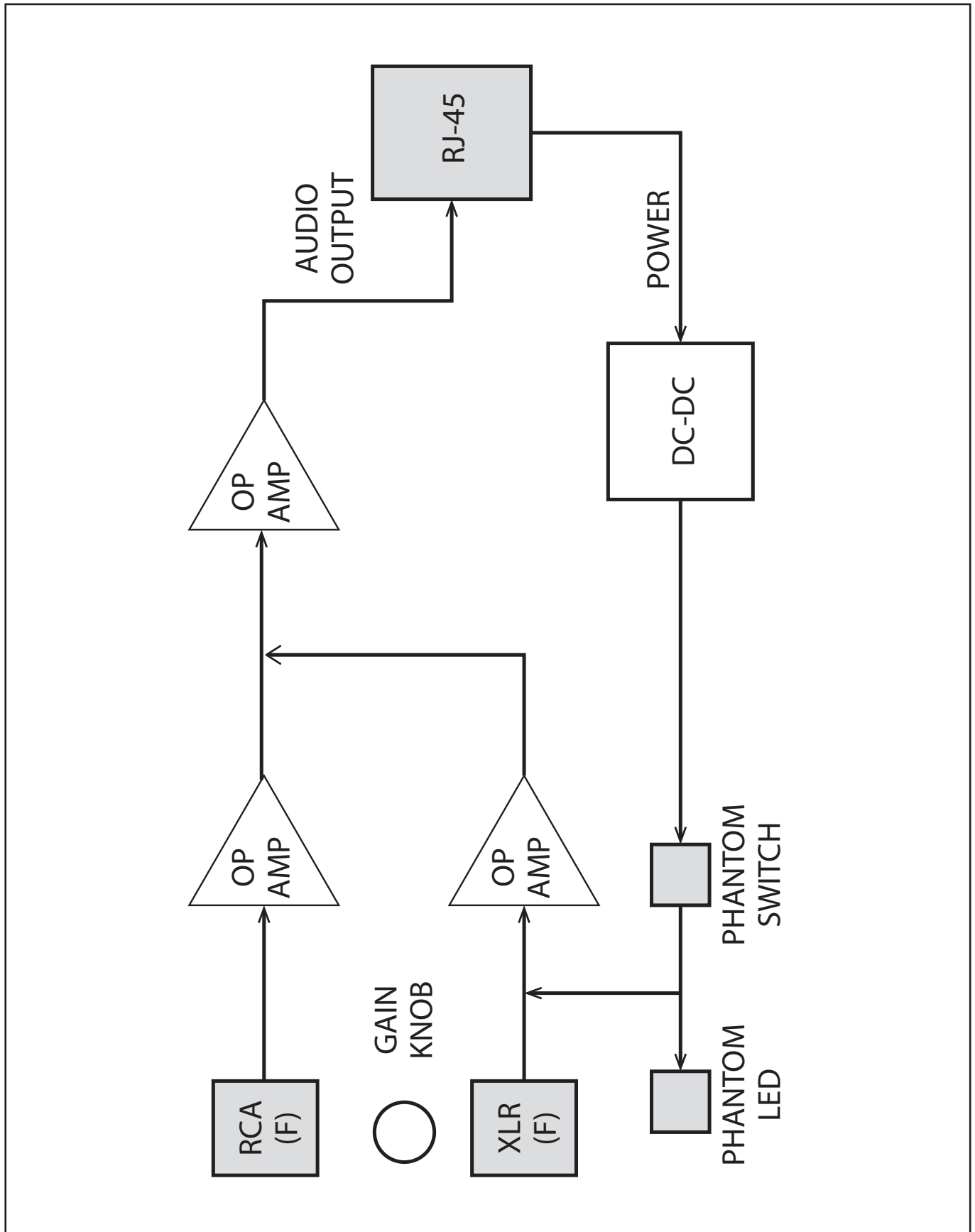
REVISION HISTORY			
NO	E.S	DATE	2015.12.24 Kang Hoon
NO	E.S2	DATE	2016.03.31 Kang Hoon
NO	P.P	DATE	2016.06.17 Kang Hoon
NO	M.P	DATE	2016.09.23 Kang Hoon
NO	Rev-A	DATE	2017.03.31 Kang Hoon
NO	-	DATE	-
NO	-	DATE	-
NO	-	DATE	-
NO	-	DATE	-



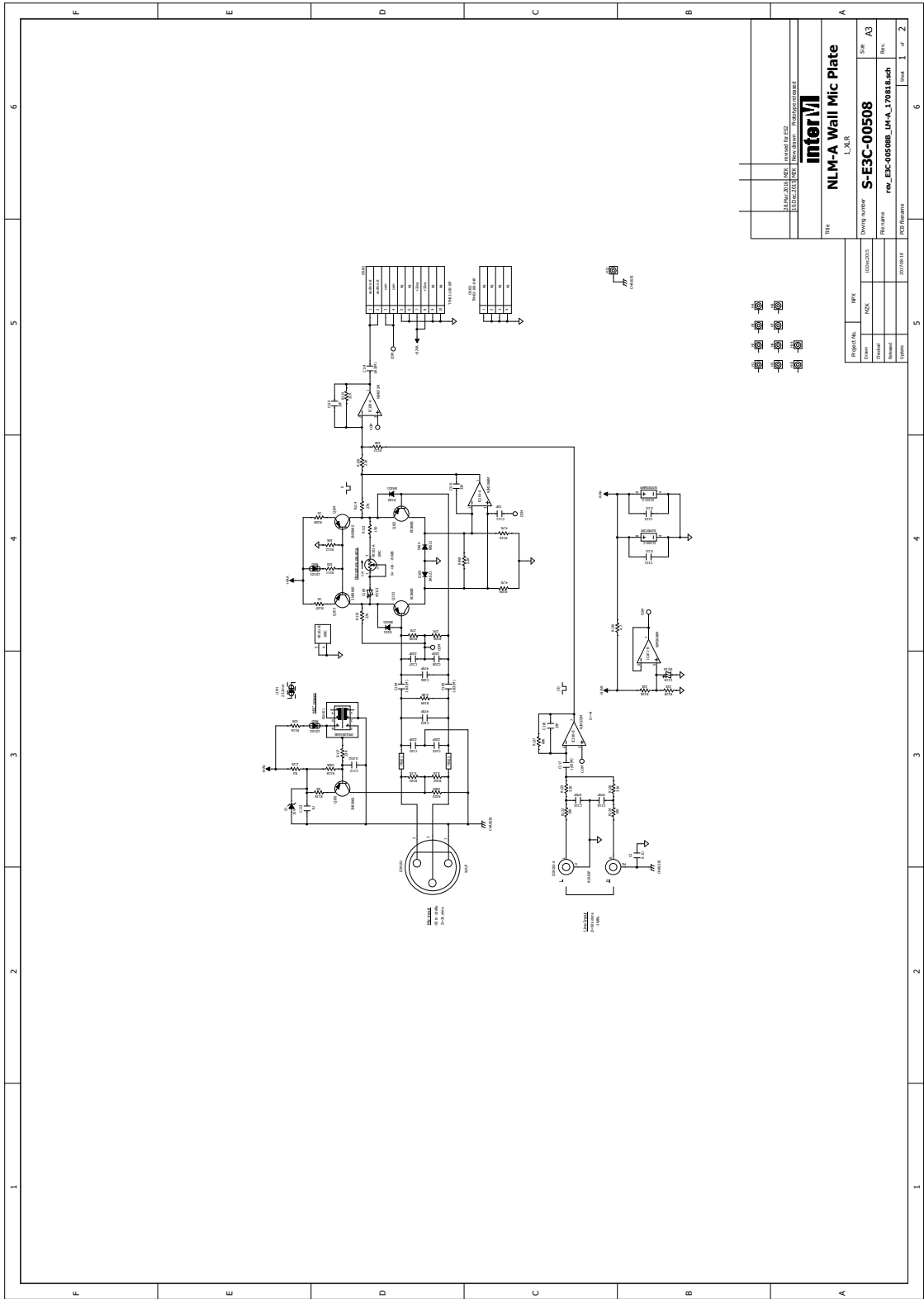
WIRING DIAGRAM



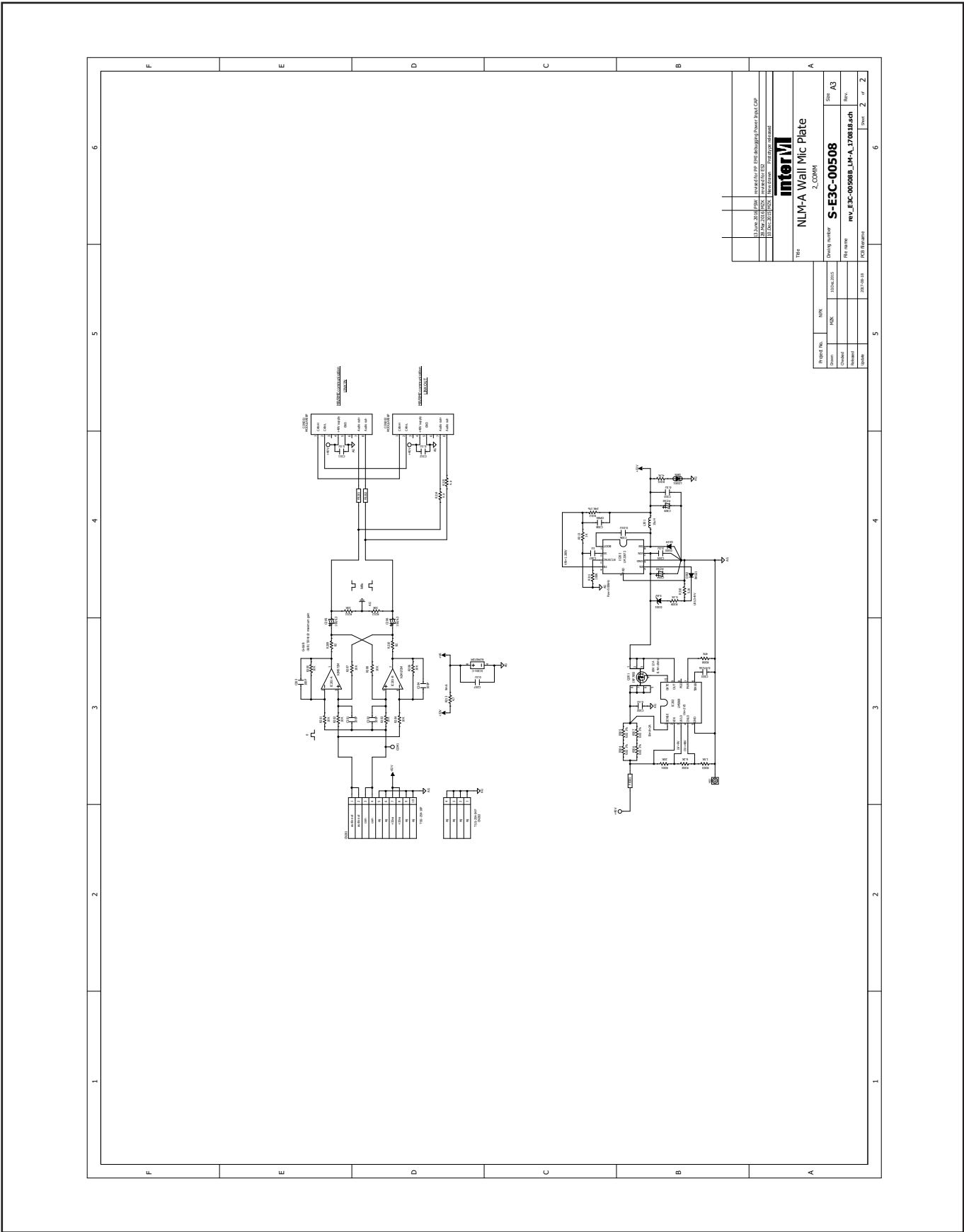
BLOCK DIAGRAM



SCHEMATIC DIAGRAM



Title		NLM-A Wall Mic Plate		1_X.R	
Project No.	MPA	Drawn	10/20/2015	Rev.	A3
Checked		Rev.		Rev.	
Issued		Rev.		Rev.	
Date		10/20/2015		1 of 2	
Project Name		NLM-A Wall Mic Plate		1_X.R	
Drawing Number		S-E3C-00508		A3	
Part Name		rev_E3C-00508_1M-A_170818.dwg		Rev.	
Project Name		NLM-A Wall Mic Plate		1_X.R	



EXPLODED VIEW OF CABINET &
CHASSIS/MECHANICAL PARTS LIST

EXPLODED VIEW OF CABINET &
CHASSIS/MECHANICAL PARTS LIST

S1	ASSY PM 3X6NI	126578	3	PCB :3
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9	PCB		1	
8	STUD (7.5mm)	113652	1	
7	PCB		1	
6	KNOB-VOL(A)	140303	1	
5	KNOB-PUSH(A)	140305	1	
4	BODY HOLDER_A	141986	1	
3	DOUBLE SIDED TAPE	141987	1	
2	BODY (A)-CAP	140302	1	
1	DECO PANEL	2002207	1	
NO	PART NAME	PART NUMBER	Q'TY	REMARKS

