

Service Manual



Digital PA Combination System

PAC-5000A

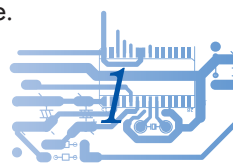
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SPECIFICATIONS

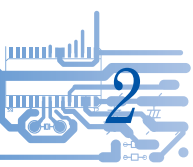
		PAC-5000A
AUX INPUT (AUX IN @ 1kHz, 100V/33.33Ω, 70V/16.6 Ω LOAD OUTPUT)		
Rated Output (@ T.H.D 1%, GROUP A + GROUP B)		300W+300W
Input Sensitivity		-10 ± 3dBV
Signal-to-Noise Ratio (S/N)		>75dB
EQ Control (100Hz, 1kHz, 10kHz)		±10 ± 3dB
Frequency Range (1W Power Output, ±3dB)		50Hz ~ 20kHz
MIC/LINE 1~5 Input (MIC/LINE @ 1kHz, POST OUT)		
MIC Input Sensitivity		-55 ± 3
MIC Signal-to-Noise Ratio (S/N)		>80dB
MIC Frequency Characteristics (80kHz LPF, 0±3dB)		50Hz ~ 20kHz
MIC Phantom Power		24V
MIC Total Harmonic Distortion (T.H.D)		<0.5%
LINE Input Sensitivity		-10 ± 3dBV
LINE Signal-to-Noise Ratio (S/N)		>80dB
LINE Total Harmonic Distortion (T.H.D)		<0.3%
CD (TEST CD 0dB, 1kHz @ REC OUT)		
Signal-to-Noise Ratio (S/N)		>75dB
Frequency Characteristics (80kHz LPF, 0±3dB)		100Hz ~ 20kHz
TUNER (FM, 22.5kHz MOD @ REC OUT)		
Signal-to Noise Ratio (S/N)		>55dB
Frequency Characteristics (80kHz LPF)	0±3dB	100Hz
	-3±3dB	12kHz
OUTPUT LEVEL (AUX IN, INPUT -10dB/1kHz)		
REC OUT		-10 ± 2dBV
POST OUT		0 ± 2dBV
PC CONTROL INTERFACE		
Data Transmission Method		RS-232
Transmission Distance		≤10M
Cable Type		USB to 232 cable
LINK IN/OUT, REMOTE MIC (RM 1~RM 4) INTERFACE		
Data Transmission Method		RS-485 Serial
Transmission Distance		≤500M
Cable Type		Category 5 UTP Cable
Priority Control		EM MIC > FIRE > PRIORITY INPUT > EM > PC TIMER > REMOTE MIC > SIREN, CHIME > MIC1 > MIC2~5 > BGM
Fire Sensor		24 Channel
Operating Temperature		-10°C ~ +40°C
Power Source		AC 100~240V, 50/60Hz, DC 24V
Power Consumption (1/8W)		135W
Weight (SET)		11.1kg/24.4lb
Dimension (SET)		440(W)×177(H)×380(D)mm/17.3(W)× 7(H) × 14.96(D) in

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



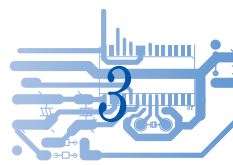
ELECTRICAL PARTS LIST

REF	ITEM NO.	DEFINE	VALUE
FRONT			
	106984	01P/ASSY-2.4/150MM/106984,ASS'Y-01P	ASS'Y-01P
	OPEN	01P/ASSY-2.4/150MM/106984,OPEN	OPEN
	111332	04P/53014/2,53014-04P	53014-04P
	108785	04P/ASSY/2.5/210MM/108785,ASS'Y-04P	ASS'Y-04P
	107181	04P/ASSY/2/300MM/107181,ASS'Y-04P	ASS'Y-04P
	107182	04P/ASSY/2/H/150MM/107182,ASS'Y-04P	ASS'Y-04P
	111359	04P/LW-5267/2.5,LW5267-04P	LW5267-04P
	107180	06P/ASSY/2/300MM/107180,ASS'Y-06P	ASS'Y-06P
	111251	06P/PHWS-2/12.2,PHWS-06P	PHWS-06P
	106083	10000PF/EMI/106083,10000pF	10000pF
	104926	103B/11/RK11K1140A37,10KB	10KB
	137132	10B/11/RK11K114003Y,10KB	10KB
	129360	10UH/2016/129360,10uH	10uH
	106146	11.0592D02MHZ/HC-49U,11.0592MHz	11.0592MHz
	136355	330UH/8/136355,330uH	330uH
	130354	7029AF/KIA/SOT89,KIA7029AF	KIA7029AF
	118862	74HC4051M/SOP16P/2,74HC4051M	74HC4051M
	119147	AP1117E33L/SOT223,AP1117E33L	AP1117E33L
	130224	ATMEGA128A/TQFP64P/2,ATmega128A	ATmega128A
	112730	BUZZER/CAP-1205SL,CAP-1205SL	CAP-1205SL
	120415	CE0.01U50K/1608,0.01U	0.01U
	120419	CE0.1U50K/1608,0.1	0.1
	120421	CE0.1U50K/2012,0.1U	0.1U
	120246	CE0.1U50Z/1608,0.1U	0.1U
	120247	CE0.1U50Z/2012,0.1U	0.1U
	120367	CE22P50J/1608,22P	22P
	120374	CE27P50J/2012,27P	27P
	129260	CE4.7U10K/1608,4.7U10	4.7U10
	119171	D/1N4148/SOT23,1N4148	1N4148
	119203	D/MURS120T3/SMB,MURS120T3	MURS120T3
	127126	D/RSB6.8S/SOD523,RSB6.8S	RSB6.8S
	112228	EC/V/EC12E2420802/12B20F,EC12E2420802	EC12E2420802
	126624	EC100U25M/NXB/T,100/25	100/25
	127711	EC10U50M/NXB/T,10/50	10/50
	105508	EC47U25M/RG/T,47/25	47/25
	FIDUCIAL	HOLE/FIDUCIAL,VALUE	VALUE
	GND	HOLE/GND/3.5,GND	GND
	HOLE	HOLE/PCB/4,VALUE	VALUE
	SCERW	HOLE/SCREW/3.5,VALUE	VALUE
	135399	IT/135399,135399	135399
	103351	LC/9-ST-37GINK,9-ST-37GINK	9-ST-37GINK
	129959	LD/G/1608/BL-HGE36A,BL-HGE36A	BL-HGE36A
	130018	LD/G/3.1T/BL-B2141,BL-B2141-AA-AV-T05	BL-B2141-AA-AV-T05
	130021	LD/G/5T/BL-B2134-AV,BL-B2134-AV	BL-B2134-AV
	129946	LD/GO/3T/BL-BEG201,BL-BEG201	BL-BEG201
	103269	LD/O/3.1T/TL1CHA,LT1-1CHA	LT1-1CHA
	129892	LD/R/3T/BL-B4541,BL-B4541	BL-B4541
	130297	LD/R/5T/BL-B4534,BL-B4534	BL-B4534
	114982	LIMITE/5.5/11.5/114982,11.5mm	11.5mm
	114990	LIMITE/5.5/17/114990,17mm	17mm
	114979	LIMITE/5.5/9.9/114979,9.9mm	9.9mm
	114965	LIMITE/6/12/114965,12mm	12mm
	125969	MA0.022U630K/DEM,0.022/630(K)	0.022/630(K)
	119048	MAX6953/SSOP36P/2,MAX6953	MAX6953
	119045	MAX6955/SSOP36P/2,MAX6955	MAX6955
	118672	NPN/2N3904/SOT23,2N3904	2N3904
	118642	NPN/KTC3875S-Y/SOT23,KTC3875S-Y	KTC3875S-Y
	135990	NPN/PBSS8110X/SOT89,PBSS8110X	PBSS8110X
	132123	PCA9535/TSSOP24P/2,PCA9535	PCA9535
	119333	R0J/1608,0	0
	OPEN	R0J/1608,OPEN	OPEN
	119334	R0J/2012,0	0
	OPEN	R0J/3216,OPEN	OPEN
		R0J/3216,OPEN	OPEN



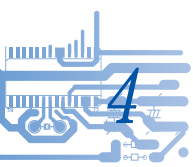
ELECTRICAL PARTS LIST

REF	ITEM NO.	DEFINE	VALUE
	119352	R100J/1608,100	100
	119346	R10J/2012,10	10
	119366	R10KJ/1608,10K	10K
	OPEN	R10KJ/1608,OPEN	OPEN
	119427	R15KJ/1608,15K	15K
	104241	R1J/A,1	1
	119361	R1KJ/1608,1K	1K
	119510	R2.2J/2012,2.2	2.2
	119496	R2.2KJ/1608,2.2K	2.2K
	119497	R2.2KJ/2012,2.2K	2.2K
	119579	R33KJ/1608,33K	33K
	119597	R39J/1608,39	39
	119625	R4.7KJ/2012,4.7K	4.7K
	119619	R470J/1608,470	470
	119669	R560J/1608,560	560
	119678	R56KJ/1608,56K	56K
	119679	R56KJ/2012,56K	56K
	104691	R6.8KJ/1W/MO/A,6.8K 1W	6.8K 1W
	119711	R68KJ/2012,68K	68K
	103354	SG/TA07-11EWA,TA07-11EWA	TA07-11EWA
	124663	TC/ITS-1163,ITS-1163	ITS-1163
	112063	TC/THVV501BAA,THVV501BAA	THVV501BAA
	120180	TT100U10M/C,100/10	100/10
	120187	TT22U10M/B,22/10	
	123665	TT47U16M/B,47/16	47/16
	111624	USB04P/102/111624,USB04P	USB04P
	102711	ZD/UZ2.4BM,2.4BM	2.4BM
AMP			
	111358	03P/LW-5267/2.5,LW5267-03P	LW5267-03P
	111074	03P/PH03/12,PH03-03P	PH03-03P
	111381	04P/53015/2,53015-04P	53015-04P
	136176	04P/ASSY/2/250MM/136176,ASS'Y-04P	ASS'Y-04P
	110494	04P/B4P-VH/3.96,B4PVH-04P	B4PVH-04P
	129045	07P/15001WR/1.5,15001WR-07P	15001WR-07P
	110413	07P/YW396-V/3.96,YW396-07V	YW396-07V
	105326	102/SEM/FT-63TP,1K	1K
	105331	104/SEM/FT-63TP,100K	100K
	127462	120OHM/BEAD/127462,120ohm	120ohm
	111191	18P/FFC-SCB11/1.25,FFCSCB-18P	FFCSCB-18P
	105333	202/SEM/FT-63TP,2K	2K
	2001369	24UH/37/2001369,24uH	24uH
	118979	7805/KIA/SOT89,7805	7805
	129536	79L05F/KIA/SOT89,KIA79L05F	KIA79L05F
	123776	80OHM/BEAD/123776,80OHM	80OHM
	126495	CE0.001U250J/2012,0.001U	0.001U
	129534	CE0.01U250J/3216,0.01U250	0.01U250
	OPEN	CE0.01U250J/3216,OPEN	OPEN
	126494	CE0.01U250K/2012,0.01U	0.01U
	OPEN	CE0.01U250K/2012,n.a.	n.a.
	120417	CE0.01U50K/2012,0.01U	0.01U
	OPEN	CE0.01U50K/2012,n.a.	n.a.
	120444	CE0.047U50K/2012,0.047U	0.047U
	120421	CE0.1U50K/2012,0.1U	0.1U
	120246	CE0.1U50Z/1608,0.1U	0.1U
	120247	CE0.1U50Z/2012,0.1U	0.1U
	120283	CE0.22U50Z/2012,0.22U	0.22U
	120354	CE120P50J/2012,120P	120P
	120251	CE1U50Z/2012,1U	1U
	120381	CE330P50J/2012,330P	330P
	120348	CE4.7U16M/3216,4.7/16	4.7/16
	131632	CE4.7U25M/3225,4.7U25	4.7U25
	120443	CE4700P50K/2012,4700P	4700P
	120391	CE470P50J/2012,470P	470P
	120389	CE47P50J/2012,47P	47P



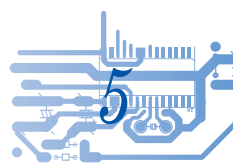
ELECTRICAL PARTS LIST

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	119190	D/BAS21/SOT23,BAS21	BAS21
	119196	D/BAV99/SOT23,BAV99	BAV99
	119203	D/MURS120T3/SMB,MURS120T3	MURS120T3
	119202	D/MURS160T3/DO214AA,MURS160T3	MURS160T3
	127070	EC100U10M/SHL/T,100/10 NP	100/10 NP
	127711	EC10U50M/NXB/T,10/50	10/50
	127554	EC2.2U50M/NXB/T,2.2/50	2.2/50
	105462	EC22U25M/RG/T,22/25	22/25
	105585	EC470U100M/NXB,470/100	470/100
	105508	EC47U25M/RG/T,47/25	47/25
	FIDUCIAL	HOLE/FIDUCIAL,VALUE	VALUE
	GND	HOLE/GND/3.5,GND	GND
	HOLE	HOLE/PCB/4,VALUE	VALUE
	2001726	HS/2001726/67,Heat sink	Heat sink
	131763	IRS2052MPBF/QFN48P/2,IRS2052MPBF	IRS2052MPBF
	111915	JUMPER/DS1027-2ABF10,DS1027-2ABF10	DS1027-2ABF10
	119236	LD/G/1608S/LTST-C190TGKT,LTST-C190TGKT	LTST-C190TGKT
	129968	LD/R/1608/BL-HUE36A,BL-HUE36A	BL-HUE36A
	130293	LD/Y/1608/BL-HKB36A,BL-HKB36A	BL-HKB36A
	120629	LM35DT,LM35DT	LM35DT
	105857	MA0.033U100J/T,0.033/100(M)	0.033/100(M)
	133535	MA0.18U63J/CEM/T,0.18/63(M)	0.18/63(M)
	105910	MA0.1U250K/DEM/T,0.1/250(M)	0.1/250(M)
	105914	MA0.22U250J/DEM/T,0.22/250(M)	0.22/250(M)
	105929	MA2200P100M/MKS/T,2200P/100(M)	2200P/100(M)
	133058	N/IRFI4020H/TO220-5,IRFI4020H	IRFI4020H
	129509	N/PMBFJ112/SOT23,PMBFJ112	PMBFJ112
	118730	NJM072M/DMP08P,NJM072M	NJM072M
	118722	NJM13600M/SO16P,NJM13600M	NJM13600M
	118672	NPN/2N3904/SOT23,2N3904	2N3904
	118638	NPN/KRC403/USM,KRC403	KRC403
	118643	NPN/KTC4375-Y/SOT89,KTC4375-Y	KTC4375-Y
	118663	PNP/2N3906S/SOT23,2N3906S	2N3906S
	118657	PNP/KTA1666/SOT89,KTA1666	KTA1666
	OPEN	R0J/2012,OPEN	OPEN
	119424	R1.5KJ/2012,1.5K	1.5K
	119455	R1.8KJ/2012,1.8K	1.8K
	119353	R100J/2012,100	100
	119370	R100KJ/2012,100K	100K
	119346	R10J/2012,10	10
	104454	R10J/1W/MF/T,10 1W	10 1W
	104234	R10J/A,10	10
	OPEN	R10J/A,n.a.	n.a.
	119366	R10KJ/1608,10K	10K
	OPEN	R10KJ/1608,OPEN	OPEN
	119367	R10KJ/2012,10K	10K
	104537	R10KJ/2W/MO/T,10K 2W	10K 2W
	119405	R120KJ/2012,120K	120K
	119401	R12KJ/2012,12K	12K
	119420	R150J/2012,150	150
	119428	R15KJ/2012,15K	15K
	119466	R180KJ/2012,180K	180K
	104272	R180KJ/A,180K	180K
	119362	R1KJ/2012,1K	1K
	119364	R1KJ/3216,1K	1K
	119476	R20KJ/2012,20K	20K
	119492	R220J/2012,220	220
	119502	R220KJ/2012,220K	220K
	119499	R22KJ/2012,22K	22K
	104745	R25J/5W/CE,25	25
	119531	R27KJ/2012,27K	27K
	104274	R2KJ/A,2K	2K
	119576	R3.3KJ/2012,3.3K	3.3K
	119590	R3.6KJ/2012,3.6K	3.6K
	119605	R3.9KJ/2012,3.9K	3.9K



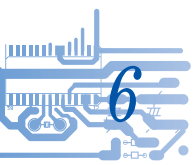
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	119573	R330J/2012,330	330
	119580	R33KJ/2012,33K	33K
	119597	R39J/1608,39	39
	119608	R39KJ/2012,39K	39K
	119548	R3KJ/2012,3K	3K
	119949	R4.3KJ/2012,4.3K	4.3K
	119645	R4.7J/2012,4.7	4.7
	119625	R4.7KJ/2012,4.7K	4.7K
	129577	R4.7KJ/2W/MF/T,4.7K 2W	4.7K 2W
	119617	R47J/2012,47	47
	119630	R47KJ/2012,47K	47K
	119655	R5.1KJ/2012,5.1K	5.1K
	119676	R5.6KJ/2012,5.6K	5.6K
	119670	R560J/2012,560	560
	104673	R56J/2W/MO/T,56 2W	56 2W
	104347	R56KJ/A,56K	56K
	119689	R6.2KJ/2012,6.2K	6.2K
	119707	R6.8KJ/2012,6.8K	6.8K
	119698	R68J/2012,68	68
	119747	R8.2KJ/2012,8.2K	8.2K
	124492	SOCKET/5138,5138	5138
	TP	TP,VALUE	VALUE
	106871	TP/TP00325-21/T,TP00325-21	TP00325-21
	127303	ZD/15V/Z02W/SOT23,15V	15V
	111357	02P/LW-5267/2.5,LW5267-02P	LW5267-02P
AUDIO-DSP			
	111358	03P/LW-5267/2.5,LW5267-03P	LW5267-03P
	106083	10000PF/EMI/106083,10000pF	10000pF
	106085	1000PF/EMI/106085,1000pF	1000pF
	122909	10P/ASSY/2.5/60MM/122909,ASSY-10P	ASSY-10P
	111350	10P/LA-5268/2.5,LA5268-10P	LA5268-10P
	OPEN	10P/TPH-1419,OPEN	OPEN
	106132	12.288MHZ/HC-49U,12.288MHz	12.288MHz
	119251	120OHM/HB-1M2012-121JT/2012,120ohm	120ohm
	111191	18P/FFC-SCB11/1.25,FFCSCB-18P	FFCSCB-18P
	111047	20P/12511HS/1.25,12511HS-20P	12511HS-20P
	111192	26P/FFC-SCB11/1.25,FFCSCB-26P	FFCSCB-26P
	130222	74LV165DB/SSOP16P/2,74LV165DB	74LV165DB
	123776	80OHM/BEAD/123776,80OHM	80OHM
	135331	ADAU1401AWBSTZ/LQFP48P/2,ADAU1401AWBSTZ	ADAU1401AWBSTZ
	119147	AP1117E33L/SOT223,AP1117E33L	AP1117E33L
	113464	BK/113464,Bracket	Bracket
	113478	BK/113478,Bracket	Bracket
	120235	CE0.001U50J/2012,0.001U	0.001U
	OPEN	CE0.001U50J/2012,OPEN	OPEN
	120417	CE0.01U50K/2012,0.01U	0.01U
	120431	CE0.022U50K/2012,0.022U	0.022U
	120438	CE0.033U50K/2012,0.033U	0.033U
	120419	CE0.1U50K/1608,0.1	0.1
	120421	CE0.1U50K/2012,0.1U	0.1U
	120246	CE0.1U50Z/1608,0.1U	0.1U
	120351	CE100P50J/1608,100P	100P
	120356	CE15P50J/2012,15P	15P
	120251	CE1U50Z/2012,1U	1U
	120275	CE2200P50K/2012,2200P	2200P
	120371	CE220P50J/2012,220P	220P
	120374	CE27P50J/2012,27P	27P
	120298	CE3300P50J/2012,3300P	3300P
	120381	CE330P50J/2012,330P	330P
	120378	CE33P50J/2012,33P	33P
	131632	CE4.7U25M/3225,4.7U25	4.7U25
	120389	CE47P50J/2012,47P	47P
	120400	CE56P50J/2012,56P	56P
	120406	CE680P50J/2012,680P	680P



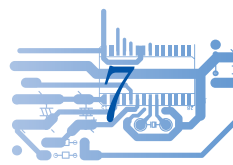
ELECTRICAL PARTS LIST

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	128616	CS4272/TSSOP28P/2,CS4272	CS4272
	119171	D/1N4148/SOT23,1N4148	1N4148
	119190	D/BAS21/SOT23,BAS21	BAS21
	128701	D/BAT54S/SOT23,BAT54S	BAT54S
	119196	D/BAV99/SOT23,BAV99	BAV99
	120122	EC100U16M/RC,100/16	100/16
	125340	EC100U35M/BLA,100/35	100/35
	120118	EC10U25M/RC,10/25	
	120104	EC10U50M/SC,10/50	10/50
	120132	EC220U16M/RC,220/16	220/16
	122404	EC220U25M/SHL/T,220/25	220/25
	120145	EC4.7U16M/RC,4.7/16	4.7/16
	120101	EC47U16M/JC,47/16	47/16
	120103	EC47U25M/SC,47/25	47/25
	118949	HEF4053BT/SOP16P/2,HEF4053BT	HEF4053BT
	FIDUCIAL	HOLE/FIDUCIAL,VALUE	VALUE
	GND	HOLE/GND/3.5,GND	GND
	HOLE	HOLE/PCB/4,VALUE	VALUE
	102885	LM384,LM384	LM384
	105944	MA0.1U50J,0.1/50(M)	0.1/50(M)
	129509	N/PMBFJ112/SOT23,PMBFJ112	PMBFJ112
	118730	NJM072M/DMP08P,NJM072M	NJM072M
	129510	NJM2072M/DMP08P/2,NJM2072M	NJM2072M
	118711	NJM4580E/SOP08P,NJM4580E	NJM4580E
	118712	NJM5532M/DMP08P,NJM5532M	NJM5532M
	129794	NL17SZ08DFT2G/SC70-5,NL17SZ08DFT2G	NL17SZ08DFT2G
	118670	NPN/KTD1304/SOT23,KTD1304	KTD1304
	103384	PC/LTV847,LTV847	LTV847
	132123	PCA9535/TSSOP24P/2,PCA9535	PCA9535
	111610	PHN04P/111610,PHONE04P	PHONE04P
	118663	PNP/2N3906S/SOT23,2N3906S	2N3906S
	135168	PNP/2SA1163/SC-59,2SA1163	2SA1163
	118627	PNP/KRA303/USM,KRA303	KRA303
	119333	R0J/1608,0	0
	OPEN	R0J/1608,OPEN	OPEN
	119334	R0J/2012,0	0
	OPEN	R0J/2012,OPEN	OPEN
	119424	R1.5KJ/2012,1.5K	1.5K
	119352	R100J/1608,100	100
	119353	R100J/2012,100	100
	119369	R100KJ/1608,100K	100K
	119370	R100KJ/2012,100K	100K
	119346	R10J/2012,10	10
	119366	R10KJ/1608,10K	10K
	OPEN	R10KJ/1608,OPEN	OPEN
	OPEN	R10KJ/1608,n.a.	n.a.
	119367	R10KJ/2012,10K	10K
	104237	R10KJ/A,10K	10K
	119401	R12KJ/2012,12K	12K
	119445	R16KJ/2012,16K	16K
	119460	R18KJ/1608,18K	18K
	119462	R18KJ/2012,18K	18K
	119341	R1J/3216,1	1
	119361	R1KJ/1608,1K	1K
	119362	R1KJ/2012,1K	1K
	OPEN	R2.2KJ/1608,OPEN	OPEN
	119497	R2.2KJ/2012,2.2K	2.2K
	OPEN	R2.7KJ/2012,OPEN	OPEN
	119476	R20KJ/2012,20K	20K
	119492	R220J/2012,220	220
	119486	R22J/1608,22	22
	OPEN	R22J/1608,OPEN	OPEN
	119487	R22J/2012,22	22
	119499	R22KJ/2012,22K	22K
	119576	R3.3KJ/2012,3.3K	3.3K



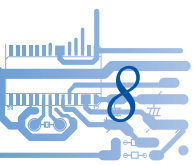
ELECTRICAL PARTS LIST

REF	ITEM NO.	DEFINE	VALUE
	119605	R3.9KJ/2012,3.9K	3.9K
	119559	R300KJ/2012,300K	300K
	119586	R330KJ/2012,330K	330K
	119580	R33KJ/2012,33K	33K
	119344	R3J/3216,3	3
	119548	R3KJ/2012,3K	3K
	119949	R4.3KJ/2012,4.3K	4.3K
	119625	R4.7KJ/2012,4.7K	4.7K
	119620	R470J/2012,470	470
	119630	R47KJ/2012,47K	47K
	119676	R5.6KJ/2012,5.6K	5.6K
	104346	R5.6KJ/A,5.6K	5.6K
	119689	R6.2KJ/2012,6.2K	6.2K
	119707	R6.8KJ/2012,6.8K	6.8K
	119701	R680J/2012,680	680
	OPEN	R680J/2012,OPEN	OPEN
	119696	R68J/1608,68	68
	119698	R68J/2012,68	68
	119732	R7.5KJ/2012,7.5K	7.5K
	111574	RCA/JK46CN/06H/L/111574,RCA06P	RCA06P
	111939	SL/SV68010F-0203,SV68010F	SV68010F
	130511	TER/BL/VL065151/06H/130511,TERMINAL03P	TERMINAL03P
	131251	TER/BL/VL125151/12H/131251,TERMINAL06P	TERMINAL06P
	133723	TER/BL/WJ2EDGR-140-00A/03H/133723,TERMINAL03P	TERMINAL03P
	TP	TP,VALUE	VALUE
	106871	TP/TP00325-21/T,TP00325-21	TP00325-21
	129228	ZD/KDZ6.8V/200MW/USC,6.8V 200mW	6.8V 200mW
ACDC			
	110492	02P/B2P-VH/3.96,B2PVH-02P	B2PVH-02P
	110493	02P/B3P-VH/7.92,B3PVH-02P	B3PVH-02P
	111359	04P/LW-5267/2.5,LW5267-04P	LW5267-04P
	108323	06P/ASSY/2.5/120MM/108323,ASS'Y-06P	ASS'Y-06P
	110413	07P/YW396-V/3.96,YW396-07V	YW396-07V
	122418	08P/ASSY/2.5/250MM/122418,ASS'Y-08P	ASS'Y-08P
	103437	1/M/20A/160T/-40~180C/DSC-1D-30,1 ohm	1 ohm
	103528	100MHZ/BEAD/103528,100MHZ	100MHZ
	106081	100MHZ/BEAD/106081,100MHz	100MHz
	122909	10P/ASSY/2.5/60MM/122909,ASS'Y-10P	ASS'Y-10P
	127462	120OHM/BEAD/127462,120ohm	120ohm
	112598	20/5A/250V/T/KUCJ/112598,T5A/250V	T5A/250V
	105333	202/SEM/FT-63TP,2K	2K
	103555	22UH/7.5/CHOKE/103555,22uH	22uH
	133335	6MH/25/CHOKE/LF19-F06M,6mH	6mH
	102820	7805/KIA/API-U,7805	7805
	128383	78R15/KIA/API,78R15	78R15
	123776	80OHM/BEAD/123776,80OHM	80OHM
	111737	ACIN/SS-7B-1-09,AC IN	AC IN
	125866	BD/TS15P05G,TS15P05G	TS15P05G
	120235	CE0.001U50J/2012,0.001U	0.001U
	OPEN	CE0.001U50J/2012,OPEN	OPEN
	129534	CE0.01U250J/3216,0.01U250	0.01U250
	126494	CE0.01U250K/2012,0.01U	0.01U
	120417	CE0.01U50K/2012,0.01U	0.01U
	125212	CE0.1U100K/3216,0.1U100	0.1U100
	120421	CE0.1U50K/2012,0.1U	0.1U
	120247	CE0.1U50Z/2012,0.1U	0.1U
	120283	CE0.22U50Z/2012,0.22U	0.22U
	120315	CE0.47U50Z/2012,0.47U	0.47U
	120352	CE100P50J/2012,100P	100P
	105674	CE120P50J/SL/T,120P	120P
	120251	CE1U50Z/2012,1U	1U
	135324	CE2200P250M/KX,2200P250	2200P250
	130523	CE220P1KK/Y5R,220P1K	220P1K
	131410	CE220P630J/3216,220P630	220P630



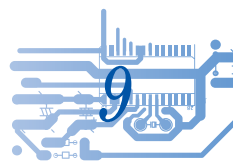
ELECTRICAL PARTS LIST

REF	ITEM NO.	DEFINE	VALUE
	120348	CE4.7U16M/3216,4.7/16	4.7/16
	120443	CE4700P50K/2012,4700P	4700P
	105978	CE470P1000K/T,470P1000	470P1000
	120391	CE470P50J/2012,470P	470P
	120389	CE47P50J/2012,47P	47P
	122241	CE820P50J/2012,820P	820P
	119190	D/BAS21/SOT23,BAS21	BAS21
	119196	D/BAV99/SOT23,BAV99	BAV99
	129532	D/ES3G/DO214AB,ES3G	ES3G
	102682	D/MUR1540,MUR1540	MUR1540
	119203	D/MURS120T3/SMB,MURS120T3	MURS120T3
	119202	D/MURS160T3/DO214AA,MURS160T3	MURS160T3
	131633	D/UF5408,UF5408	UF5408
	105601	EC1000U160M/TDA,1000/160	1000/160
	105350	EC1000U50M/KMG,1000/50	1000/50
	132816	EC10U450M/NFC,10/450	10/450
	127711	EC10U50M/NXB/T,10/50	10/50
	132817	EC220U450M/TDC,220/450	220/450
	105462	EC22U25M/RG/T,22/25	22/25
	133341	EC330U50M/NXB,330/50	330/50
	105356	EC470U35M/RD/T,470/35	470/35
	105508	EC47U25M/RG/T,47/25	47/25
	128397	EC47U35M/KMG,47/35	47/35
	111858	FUSE/FH-FAU0031.3577,FH-FAU0031.3577	FH-FAU0031.3577
	FIDUCIAL	HOLE/FIDUCIAL,VALUE	VALUE
	GND	HOLE/GND/3.5,GND	GND
	HOLE	HOLE/PCB/4,VALUE	VALUE
	SCERW	HOLE/SCREW/3.5,VALUE	VALUE
	114263	HS/114263/40,Heat sink	Heat sink
	114265	HS/114265/30,Heat sink	Heat sink
	2001706	HS/2001706/50,Heat sink	Heat sink
	2001707	HS/2001707/50,Heat sink	Heat sink
	2001708	HS/2001708/50,Heat sink	Heat sink
	133674	ICE2PCS02G/SO08P/2,ICE2PCS02G	ICE2PCS02G
	132336	IR2113/SOIC16P/2,IR2113	IR2113
	125843	KIA431AF/SOT89,KIA431AF	KIA431AF
	130018	LD/G/3.1T/BL-B2141,BL-B2141-AA-AV-T05	BL-B2141-AA-AV-T05
	130016	LD/Y/3T/BL-3141-AA-AV,BL-3141-AA-AV	BL-3141-AA-AV
	114975	LIMITER/5.5/4.5/114975,4.5mm	4.5mm
	120629	LM35DT,LM35DT	LM35DT
	136933	MA0.022U630J/PCMP,0.022/630(M)	0.022/630(M)
	133532	MA0.1U630KJ/MP,0.1/630(M)	0.1/630(M)
	132818	MA0.47U630J/MP,0.47/630(M)	0.47/630(M)
	105992	MA1U275K/AC,1/275(M)	1/275(M)
	132801	N/IPP60R125C6/TO220,IPP60R125C6	IPP60R125C6
	132832	N/SPA17N80C3/TO220-3-31,SPA17N80C3	SPA17N80C3
	132396	N/STW55NM60ND,STW55NM60ND	STW55NM60ND
	136911	NCP1207/SOP08P/2,NCP1207	NCP1207
	129542	NJM2403M/DMP08P,NJM2403M	NJM2403M
	118672	NPN/2N3904/SOT23,2N3904	2N3904
	118643	NPN/KTC4375-Y/SOT89,KTC4375-Y	KTC4375-Y
	103385	PC/LTV817,LTV817	LTV817
	118665	PNP/KTA1663-Y/SOT89,KTA1663-Y	KTA1663-Y
	137181	PT/137181,137181	137181
	135361	PT/135361/120~395V,135361	135361
	104543	R0.1J/3W/MO,0.1 3W	0.1 3W
	131253	R0.22J/2W/MF/T,0.22 2W	0.22 2W
	119334	R0J/2012,0	0
	119396	R1.2KJ/2012,1.2K	1.2K
	119353	R100J/2012,100	100
	104528	R100J/2W/MO/T,100 2W	100 2W
	OPEN	R100KJ/2012,OPEN	OPEN
	132060	R100KJ/2W/MF/T,100K 2W	100K 2W
	119346	R10J/2012,10	10
	104454	R10J/1W/MF/T,10 1W	10 1W



ELECTRICAL PARTS LIST

REF	ITEM NO.	DEFINE	VALUE
	104518	R10J/2W/MO/T,10 2W	10 2W
	104234	R10J/A,10	10
	119367	R10KJ/2012,10K	10K
	119405	R120KJ/2012,120K	120K
	119428	R15KJ/2012,15K	15K
	104270	R18KJ/A,18K	18K
	119362	R1KJ/2012,1K	1K
	119374	R1MJ/3216,1M	1M
	104239	R1MJ/A,1M	1M
	119497	R2.2KJ/2012,2.2K	2.2K
	OPEN	R2.2MJ/A,OPEN	OPEN
	119947	R2.4KJ/MF/2012,2.4K	2.4K
	119527	R2.7KJ/2012,2.7K	2.7K
	119492	R220J/2012,220	220
	119487	R22J/2012,22	22
	119499	R22KJ/2012,22K	22K
	119576	R3.3KJ/2012,3.3K	3.3K
	132822	R3.9MJ/3216,3.9M	3.9M
	119580	R33KJ/2012,33K	33K
	119581	R33KJ/3216,33K	33K
	104309	R33KJ/A,33K	33K
	104320	R390KJ/A,390K	390K
	119608	R39KJ/2012,39K	39K
	104487	R39KJ/2W/MF/T,39K 2W	39K 2W
	104335	R4.7J/A,4.7	4.7
	119625	R4.7KJ/2012,4.7K	4.7K
	119617	R47J/2012,47	47
	104653	R47J/2W/MO/T,47 2W	47 2W
	104661	R47KJ2W/MO,47K 2W	47K 2W
	119655	R5.1KJ/2012,5.1K	5.1K
	119670	R560J/2012,560	560
	119707	R6.8KJ/2012,6.8K	6.8K
	119701	R680J/2012,680	680
	119698	R68J/2012,68	68
	104362	R68KJ/A,68K	68K
	104453	R750KJ/1/2W/MF/A,750K 1/2W	750K 1/2W
	132812	SD/RFX10TF6S,RFX10TF6S	RFX10TF6S
	125880	SD/SS16/SMA,SS16	SS16
	132384	SD/US1M/SMA,US1M	US1M
	132805	T/132805,132805	132805
	132820	T/132820,132820	132820
	132173	TOP242PN/2,TOP242PN	TOP242PN
	106871	TP/TP00325-21/T,TP00325-21	TP00325-21
	132340	UCC25600/SOIC08P/2,UCC25600	UCC25600
	119224	ZD/12V/Z02W/SOT23,12V	12V
	132803	ZD/18V/MMBZ5248B/SOT23,18V	18V
	127302	ZD/4.7V/Z02W/SOT23,4.7V	4.7V
	134443	ZNR/391/INR20D391BS,390V	390V
	127187	02P/ASSY/3.96/160MM/127187,ASS'Y-02P	ASS'Y-02P
DCDC			
	n.a	02P/B2P-VH/3.96,n.a	n.a
	110493	02P/B3P-VH/7.92,B3PVH-02P	B3PVH-02P
	111074	03P/PH03/12,PH03-03P	PH03-03P
	n.a	04P/ASSY/2.5/80MM/109749,n.a	n.a
	111361	06P/LW-5267/2.5,LW5267-6P	LW5267-6P
	106083	10000PF/EMI/106083,10000pF	10000pF
	137702	100MHZ/BEAD/137702,100MHz	100MHz
	105326	102/SEM/FT-63TP,1K	1K
	n.a	102/SEM/FT-63TP,n.a	n.a
	n.a	103/SEM/FT-63TP,n.a	n.a
	127462	120OHM/BEAD/127462,120ohm	120ohm
	n.a	120OHM/BEAD/127462,n.a	n.a
	105333	202/SEM/FT-63TP,2K	2K
	111047	20P/12511HS/1.25,12511HS-20P	12511HS-20P

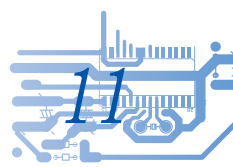


ELECTRICAL PARTS LIST

REF	ITEM NO.	DEFINE	VALUE
	112629	24V/897P-1A/S1L1,24V	24V
	118980	7812/KIA/SOT89,7812	7812
	n.a	7812/KIA/SOT89,n.a	n.a
	128383	78R15/KIA/API,78R15	78R15
	123776	80OHM/BEAD/123776,80OHM	80OHM
	n.a	AP1117E33L/SOT223,n.a	n.a
	113478	BK/113478,Bracket	Bracket
	113528	BK/113528,Bracket	Bracket
	OPEN	CE0.001U50J/2012,OPEN	OPEN
	n.a	CE0.001U50J/2012,n.a	n.a
		CE0.001U50J/2012,n.a.	n.a.
	126494	CE0.01U250K/2012,0.01U	0.01U
	120417	CE0.01U50K/2012,0.01U	0.01U
	120421	CE0.1U50K/2012,0.1U	0.1U
	n.a	CE0.1U50K/2012,n.a	n.a
	120246	CE0.1U50Z/1608,0.1U	0.1U
	n.a	CE0.1U50Z/2012,n.a	n.a
	120283	CE0.22U50Z/2012,0.22U	0.22U
	120315	CE0.47U50Z/2012,0.47U	0.47U
	120352	CE100P50J/2012,100P	100P
	n.a	CE100P50J/2012,n.a	n.a
	n.a	CE15P50J/2012,n.a	n.a
	120363	CE180P50J/2012,180P	180P
	120251	CE1U50Z/2012,1U	1U
	129521	CE2200P1KM/E/T,2200P1K	2200P1K
	125720	CE2200P400M/SD,2200P	2200P
	131410	CE220P630J/3216,220P630	220P630
	120368	CE22P50J/2012,22P	22P
	n.a	CE33P50J/2012,n.a	n.a
	105978	CE470P1000K/T,470P1000	470P1000
	120391	CE470P50J/2012,470P	470P
	n.a	CE470P50J/2012,n.a	n.a
	119190	D/BAS21/SOT23,BAS21	BAS21
	102682	D/MUR1540,MUR1540	MUR1540
	119202	D/MURS160T3/DO214AA,MURS160T3	MURS160T3
	105603	EC1000U35M/RD,1000/35	1000/35
	105421	EC100U25M/RG/T,100/25	100/25
	n.a	EC100U25M/RG/T,n.a	n.a
	125848	EC100U50M/NXB/T,100/50	100/50
	132816	EC10U450M/NFC,10/450	10/450
	127711	EC10U50M/NXB/T,10/50	10/50
	n.a	EC1U50M/RG/T,n.a	n.a
	127554	EC2.2U50M/NXB/T,2.2/50	2.2/50
	105625	EC2200U35M/RD,2200/35	2200/35
	105463	EC22U50M/SHL/T,22/50	22/50
	132799	EC470U250M/TDC,470/250	470/250
	105356	EC470U35M/RD/T,470/35	470/35
	n.a	EC47U25M/RG/T,n.a	n.a
	n.a	EC47U50M/SG/T,n.a	n.a
	128336	FUSE/178.6165,178.6165	178.6165
	FIDUCIAL	HOLE/FIDUCIAL,VALUE	VALUE
	HOLE	HOLE/PCB/4,VALUE	VALUE
	SCERW	HOLE/SCREW/3.2,VALUE	VALUE
	SCERW	HOLE/SCREW/3.5,VALUE	VALUE
	n.a	HS/128011/31.5,n.a	n.a
	2001709	HS/2001709/50,Heat sink	Heat sink
	2001710	HS/2001710/50,Heat sink	Heat sink
	111915	JUMPER/DS1027-2ABF10,DS1027-2ABF10	DS1027-2ABF10
	125843	KIA431AF/SOT89,KIA431AF	KIA431AF
	129959	LD/G/1608/BL-HGE36A,BL-HGE36A	BL-HGE36A
	129968	LD/R/1608/BL-HUE36A,BL-HUE36A	BL-HUE36A
	120629	LM35DT,LM35DT	LM35DT
	105822	MA0.1U100J/SM/T,0.1/100(M)	0.1/100(M)
	105825	MA0.1U200J/T,0.1/200(M)	0.1/200(M)
	105911	MA0.1U630J/DEM,0.1/630(M)	0.1/630(M)

ELECTRICAL PARTS LIST

REF	ITEM NO.	DEFINE	VALUE
	132883	MA2.2U250J/MP,2.2/250(M)	2.2/250(M)
	n.a	N/IRFB4332PBF/TO220,n.a	n.a
	132832	N/SPA17N80C3/TO220-3-31,SPA17N80C3	SPA17N80C3
	132396	N/STW55NM60ND,STW55NM60ND	STW55NM60ND
	136911	NCP1207BDR2G/SOIC07P/2,NCP1207BDR2G	NCP1207BDR2G
	129542	NJM2403M/DMP08P,NJM2403M	NJM2403M
	131635	NJM2746M/DMP08P,NJM2746M	NJM2746M
	n.a	NJM2746M/DMP08P,n.a	n.a
	n.a	NL17SZ08DFT2G/SC70-5,n.a	n.a
	118672	NPN/2N3904/SOT23,2N3904	2N3904
	118643	NPN/KTC4375-Y/SOT89,KTC4375-Y	KTC4375-Y
	103385	PC/LTV817,LTV817	LTV817
	118663	PNP/2N3906S/SOT23,2N3906S	2N3906S
	118665	PNP/KTA1663-Y/SOT89,KTA1663-Y	KTA1663-Y
	137182	PT/137182,137182	137182
	137012	PT/137012/196V,137012	137012
	125819	R0.1J/5W/MPR,0.1 5W	0.1 5W
	n.a	R0.22J/1W/MF/A,n.a	n.a
	131253	R0.22J/2W/MF/T,0.22 2W	0.22 2W
	119333	R0J/1608,0	0
	119334	R0J/2012,0	0
	120063	R0J/3216,0	0
	OPEN	R0J/3216,OPEN	OPEN
	119396	R1.2KJ/2012,1.2K	1.2K
	119408	R1.3KJ/2012,1.3K	1.3K
	119353	R100J/2012,100	100
	n.a	R100J/A,n.a	n.a
	119369	R100KJ/1608,100K	100K
	OPEN	R100KJ/2012,OPEN	OPEN
	n.a	R100KJ/2012,n.a	n.a
	119346	R10J/2012,10	10
	104518	R10J/2W/MO/T,10 2W	10 2W
	104234	R10J/A,10	10
	119367	R10KJ/2012,10K	10K
	n.a	R10KJ/2012,n.a	n.a
	104537	R10KJ/2W/MO/T,10K 2W	10K 2W
	104237	R10KJ/A,10K	10K
	n.a	R10KJ/A,n.a	n.a
	120089	R10KJ/ARY8Y/SMD/2,10K	10K
	n.a	R120KJ/2012,n.a	n.a
	104258	R150KJ/A,150K	150K
	n.a	R16KJ/2012,n.a	n.a
	119466	R180KJ/2012,180K	180K
	119341	R1J/3216,1	1
	n.a	R1J/3W/MO,n.a	n.a
	119362	R1KJ/2012,1K	1K
	119497	R2.2KJ/2012,2.2K	2.2K
	n.a	R2.2KJ/2012,n.a	n.a
	119947	R2.4KJ/MF/2012,2.4K	2.4K
	119527	R2.7KJ/2012,2.7K	2.7K
	119476	R20KJ/2012,20K	20K
	119492	R220J/2012,220	220
	104280	R220J/A,220	220
	119502	R220KJ/2012,220K	220K
	n.a	R220KJ/2012,n.a	n.a
	104283	R220KJ/A,220K	220K
	119486	R22J/1608,22	22
	119487	R22J/2012,22	22
	n.a	R22J/2012,n.a	n.a
	n.a	R22KJ/2012,n.a	n.a
	104296	R27KJ/A,27K	27K
	119473	R2KJ/2012,2K	2K
	119576	R3.3KJ/2012,3.3K	3.3K
	119605	R3.9KJ/2012,3.9K	3.9K
	n.a	R3.9KJ/2012,n.a	n.a



ELECTRICAL PARTS LIST

REF	ITEM NO.	DEFINE	VALUE
	119573	R330J/2012,330	330
	119580	R33KJ/2012,33K	33K
	104487	R39KJ/2W/MF/T,39K 2W	39K 2W
	119625	R4.7KJ/2012,4.7K	4.7K
	104332	R4.7KJ/A,4.7K	4.7K
	119619	R470J/1608,470	470
	119617	R47J/2012,47	47
	n.a	R47J/2012,n.a	n.a
	104653	R47J/2W/MO/T,47 2W	47 2W
	119630	R47KJ/2012,47K	47K
	n.a	R47KJ/2012,n.a	n.a
	119655	R5.1KJ/2012,5.1K	5.1K
	119676	R5.6KJ/2012,5.6K	5.6K
	119658	R51KJ/2012,51K	51K
	132827	R6.8J/3216,6.8	6.8
	119701	R680J/2012,680	680
	n.a	R680J/2012,n.a	n.a
	119698	R68J/2012,68	68
	119727	R750J/2012,750	750
	119823	R75KF/2012,75K 1%	75K 1%
	119747	R8.2KJ/2012,8.2K	8.2K
	119743	R820J/2012,820	820
	119761	R9.1KJ/2012,9.1K	9.1K
	n.a	R91KJ/2012,n.a	n.a
	102685	SD/SRA2040,SRA2040	SRA2040
	125880	SD/SS16/SMA,SS16	SS16
	n.a	SD/SS16/SMA,n.a	n.a
	132384	SD/US1M/SMA,US1M	US1M
	123779	SOCKET/DM1AA,DM1AA	DM1AA
	135478	TER/SC/BI-13A-1L/03H/135478,TERMINAL03P	TERMINAL03P
	106871	TP/TP00325-21/T,TP00325-21	TP00325-21
	n.a	TP/TP00325-21/T,n.a	n.a
	133348	TS/133348,133348	133348
	132334	UCC27324D/SOIC08P/2,UCC27324D	UCC27324D
	133312	UCC28220D/SOIC16P/2,UCC28220D	UCC28220D
	119224	ZD/12V/Z02W/SOT23,12V	12V
	132803	ZD/18V/MMBZ5248B/SOT23,18V	18V
	127302	ZD/4.7V/Z02W/SOT23,4.7V	4.7V
	102758	ZD/UZP15BM,15BM	15BM
NETWORK			
	110493	02P/B3P-VH/7.92,B3PVH-02P	B3PVH-02P
	111358	03P/LW-5267/2.5,LW5267-03P	LW5267-03P
	111359	04P/LW-5267/2.5,LW5267-04P	LW5267-04P
	OPEN	04P/LW-5267/2.5,OPEN	OPEN
	111334	06P/53014/2,53014-06P	53014-06P
	111363	08P/LW-5267/2.5,LW5267-08P	LW5267-08P
	135252	09P/FFC/12511HS/1.25,12511HS-09P	12511HS-09P
	106083	10000PF/EMI/106083,10000pF	10000pF
	111350	10P/LA-5268/2.5,LA5268-10P	LA5268-10P
	111298	10P/TPH-1419,TPH1419-10P	TPH1419-10P
	129551	11.2896MHZ/-20~85C/ISXO-3/OSC,11.2896MHz	11.2896MHz
	130616	120OHM/BEAD/BLM18PG121SN1,120ohm	120ohm
	119251	120OHM/HB-1M2012-121JT/2012,120ohm	120ohm
	131102	14.7456MHZ/-40~85C/SX-1/SMD,14.7456MHz	14.7456MHz
	119250	15UH/SHP0760P,15uH	15uH
	119276	2.2UH/2012/FIB222KJT,2.2uH	2.2uH
	111047	20P/12511HS/1.25,12511HS-20P	12511HS-20P
	118888	24LC02B/SOP08P/2,24LC02B	24LC02B
	133899	24V/AGN20024/S2L1,24V	24V
	111200	26P/FFC-SCB10/1.25,FFCSCB-26P	FFCSCB-26P
	129103	31P/10008HR/1/SMD,10008HR-31P	10008HR-31P
	106121	32.768KHZ/CSA-309/6PF,32.768KHz	32.768KHz
	127027	8MHZ/-20~70C/C5-35S18/SMD,8MHZ	8MHZ
	119147	AP1117E33L/SOT223,AP1117E33L	AP1117E33L

ELECTRICAL PARTS LIST

REF	ITEM NO.	DEFINE	VALUE
	113478	BK/113478,Bracket	Bracket
	113528	BK/113528,Bracket	Bracket
	129681	CANTUS512/TQFP100P/2,CANTUS512	CANTUS512
	120413	CE0.001U2KZ/3216,0.001U	0.001U
	105789	CE0.01U250M/AC,0.01/250	0.01/250
	120415	CE0.01U50K/1608,0.01U	0.01U
	120430	CE0.022U50K/1608,0.022U	0.022U
	120431	CE0.022U50K/2012,0.022U	0.022U
	120419	CE0.1U50K/1608,0.1	0.1
	120421	CE0.1U50K/2012,0.1U	0.1U
	120245	CE0.1U50K/3216,0.1U	0.1U
	120246	CE0.1U50Z/1608,0.1U	0.1U
	120352	CE100P50J/2012,100P	100P
	120349	CE10P50J/1608,10P	10P
	129261	CE10U10M/2012,10U10	10U10
	129256	CE10U6.3K/1608,10U6.3	10U6.3
	129356	CE10U6.3K/2012,10U6.3	10U6.3
	120425	CE1500P50J/2012,1500P	1500P
	120357	CE150P50J/1608,150P	150P
	120355	CE15P50J/1608,15P	15P
	120249	CE1U10Z/1608,1/10	
	120251	CE1U50Z/2012,1U	1U
	120267	CE20P50J/1608,20P	20P
	120428	CE2200P50K/1608,2200P	2200P
	120375	CE270P50J/1608,270P	270P
	OPEN	CE270P50J/1608,OPEN	OPEN
	120379	CE330P50J/1608,330P	330P
	120377	CE33P50J/1608,33P	33P
	120378	CE33P50J/2012,33P	33P
	120382	CE39P50J/1608,39P	39P
	129260	CE4.7U10K/1608,4.7U10	4.7U10
	129260	CE4.7U16K/1608,4.7U16	4.7U16
	120388	CE47P50J/1608,47P	47P
	120402	CE6P50J/1608,6P	6P
	119171	D/1N4148/SOT23,1N4148	1N4148
	119190	D/BAS21/SOT23,BAS21	BAS21
	128701	D/BAT54S/SOT23,BAT54S	BAT54S
	119196	D/BAV99/SOT23,BAV99	BAV99
	112233	DP/KSP52H,KSP52H	KSP52H
	129071	DS3231SN/SOIC16P/2,DS3231SN	DS3231SN
	105617	EC0.1F5.5N/EDLC,0.1F/5.5	0.1F/5.5
	120122	EC100U16M/RC,100/16	100/16
	120117	EC10U16M/RC,10/16	
	120125	EC10U35M/RC,10/35	10/35
	120104	EC10U50M/SC,10/50	10/50
	128130	EC10U50M/VE,10/50	10/50
	128135	EC1U50M/VE,1/50	1/50
	120132	EC220U16M/RC,220/16	220/16
	120131	EC22U16M/RC,22/16	22/16
	125330	EC4.7U50M/BLA,4.7/50	4.7/50
	120103	EC47U25M/SC,47/25	47/25
	120116	EC47U50M/SC,47/50	47/50
	FIDUCIAL	HOLE/FIDUCIAL,VALUE	VALUE
	GND	HOLE/GND/3.5,GND	GND
	HOLE	HOLE/PCB/4,VALUE	VALUE
	137629	IS61WV25616EDBLL-10TLI/TSOP44P/2,IS61WV25616EDBLL-10TLI	IS61WV25616EDBLL-10TLI
	118688	KIA7027AT/TSM,KIA7027AT	KIA7027AT
	132321	LAN8720A/QFN24P/2,LAN8720A	LAN8720A
	129959	LD/G/1608/BL-HGE36A,BL-HGE36A	BL-HGE36A
	129968	LD/R/1608/BL-HUE36A,BL-HUE36A	BL-HUE36A
	105831	MA0.012U100J/T,0.012/100(M)	0.012/100(M)
	130124	MAX3232EUE/TSSOP16P/2,MAX3232EUE	MAX3232EUE
	132431	MAX3483ESA/SO08P/2,MAX3483ESA	MAX3483ESA
	135396	MAX3488ESA/SO08P/2,MAX3488ESA	MAX3488ESA
	110823	MD/5621/08H/110823,MODULAR08P	MODULAR08P

ELECTRICAL PARTS LIST

REF	ITEM NO.	DEFINE	VALUE
	125944	MD/LU1T041-43LF/12H/125944,LU1T041-43LF	LU1T041-43LF
	131291	MP4460DQ/QFN10P/2,MP4460DQ	MP4460DQ
	118730	NJM072M/DMP08P,NJM072M	NJM072M
	118672	NPN/2N3904/SOT23,2N3904	2N3904
	118670	NPN/KTD1304/SOT23,KTD1304	KTD1304
	OPEN	NPN/KTD1304/SOT23,OPEN	OPEN
	118872	PC/LTV817B,LTV817B	LTV817B
	132123	PCA9535/TSSOP24P/2,PCA9535	PCA9535
	128203	PHN05P/128203,PHONE05P	PHONE05P
	118657	PNP/KTA1666/SOT89,KTA1666	KTA1666
	112158	PU/JPP011-97CAS34,JPP 1197CAS34	JPP 1197CAS34
	119333	R0J/1608,0	0
	OPEN	R0J/1608,OPEN	OPEN
	119334	R0J/2012,0	0
	120063	R0J/3216,0	0
	119422	R1.5KJ/1608,1.5K	1.5K
	119454	R1.8KJ/1608,1.8K	1.8K
	119352	R100J/1608,100	100
	119353	R100J/2012,100	100
	119369	R100KJ/1608,100K	100K
	OPEN	R100KJ/1608,OPEN	OPEN
	119370	R100KJ/2012,100K	100K
	119346	R10J/2012,10	10
	119366	R10KJ/1608,10K	10K
	OPEN	R10KJ/1608,OPEN	OPEN
	119367	R10KJ/2012,10K	10K
	119377	R10MJ/2012,10M	10M
	130666	R12.4KF/1608,12.4K 1%	12.4K 1%
	119391	R120J/1608,120	120
	OPEN	R120J/2012,OPEN	OPEN
	119400	R12KJ/1608,12K	12K
	119427	R15KJ/1608,15K	15K
	119466	R180KJ/2012,180K	180K
	119460	R18KJ/1608,18K	18K
	119462	R18KJ/2012,18K	18K
	119361	R1KJ/1608,1K	1K
	104607	R2.2J/2W/MF/T,2.2 2W	2.2 2W
	119496	R2.2KJ/1608,2.2K	2.2K
	119526	R2.7KJ/1608,2.7K	2.7K
	119475	R20KJ/1608,20K	20K
	119476	R20KJ/2012,20K	20K
	119486	R22J/1608,22	22
	119498	R22KJ/1608,22K	22K
	119522	R270J/1608,270	270
	119575	R3.3KJ/1608,3.3K	3.3K
	OPEN	R3.3KJ/1608,OPEN	OPEN
	119576	R3.3KJ/2012,3.3K	3.3K
	119569	R330J/1608,330	330
	OPEN	R330J/1608,OPEN	OPEN
	119608	R39KJ/2012,39K	39K
	119624	R4.7KJ/1608,4.7K	4.7K
	119619	R470J/1608,470	470
	119616	R47J/1608,47	47
	119629	R47KJ/1608,47K	47K
	119630	R47KJ/2012,47K	47K
	120081	R49.9F/1608,49.9 1%	49.9 1%
	119669	R560J/1608,560	560
	128443	R6.2KJ/1608,6.2K	6.2K
	119706	R6.8KJ/1608,6.8K	6.8K
	119746	R8.2KJ/1608,8.2K	8.2K
	124569	SD/B340A/SMA,B340A	B340A
	129185	SGTL5000XNAA3R2/QFN32P/2,SGTL5000XNAA3R2	SGTL5000XNAA3R2
	111956	SL/JSS-1218,JSS-1218	JSS-1218
	123668	SM712/SOT23,SM712	SM712
	131645	SOCKET/MPCI124W92G-H/FEMALE,MPCI124W92G-H-FEMALE	MPCI124W92G-H-FEMALE

ELECTRICAL PARTS LIST

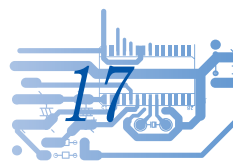
REF	ITEM NO.	DEFINE	VALUE
	135141	STM32F103ZET7/LQFP144P/2,STM32F103ZET7	STM32F103ZET7
	124663	TC/ITS-1163,ITS-1163	ITS-1163
	136579	TER/BL/KF2EDGR-X/03H/B/136579,TERMINAL03P	TERMINAL03P
	TP	TP,/RST	/RST
	TP	TP,JTCK	JTCK
	TP	TP,JTDI	JTDI
	TP	TP,JTDO	JTDO
	TP	TP,JTMS	JTMS
	TP	TP,NJTRST	NJTRST
	TP	TP,VALUE	VALUE
	106871	TP/TP00325-21/T,TP00325-21	TP00325-21
	118824	XR16L788CQ/QFP100P/2,XR16L788CQ	XR16L788CQ
MCU			
	110492	02P/B2P-VH/3.96,B2PVH-02P	B2PVH-02P
	110493	02P/B3P-VH/7.92,B3PVH-02P	B3PVH-02P
	111358	03P/LW-5267/2.5,LW5267-03P	LW5267-03P
	111359	04P/LW-5267/2.5,LW5267-04P	LW5267-04P
	OPEN	04P/LW-5267/2.5,OPEN	OPEN
	111334	06P/53014/2,53014-06P	53014-06P
	111363	08P/LW-5267/2.5,LW5267-08P	LW5267-08P
	135252	09P/FFC12511HS/1.25,12511HS-09P	12511HS-09P
	106083	10000PF/EMI/106083,10000pF	10000pF
	111350	10P/LA-5268/2.5,LA5268-10P	LA5268-10P
	111298	10P/TPH-1419,TPH1419-10P	TPH1419-10P
	129551	11.2896MHZ/-20~85C/ISXO-3/OSC,11.2896MHz	11.2896MHz
	119251	120OHM/HB-1M2012-121JT/2012,120ohm	120ohm
	131102	14.7456MHZ/-40~85C/SX-1/SMD,14.7456MHz	14.7456MHz
	119250	15UH/SHP0760P,15uH	15uH
	119276	2.2UH/2012/FIB222KJT,2.2uH	2.2uH
	111047	20P/12511HS/1.25,12511HS-20P	12511HS-20P
	118888	24LC02B/SOP08P/2,24LC02B	24LC02B
	133899	24V/AGN20024/S2L1,24V	24V
	111200	26P/FFC-SCB10/1.25,FFCSCB-26P	FFCSCB-26P
	129103	31P/10008HR/1/SMD,10008HR-31P	10008HR-31P
	106121	32.768KHZ/CSA-309/6PF,32.768KHz	32.768KHz
	127027	8MHZ/-20~70C/C5-35S18/SMD,8MHZ	8MHZ
	119147	AP1117E33L/SOT223,AP1117E33L	AP1117E33L
	113478	BK/113478,Bracket	Bracket
	113528	BK/113528,Bracket	Bracket
	129681	CANTUS512/TQFP100P/2,CANTUS512	CANTUS512
	105789	CE0.01U250M/AC,0.01/250	0.01/250
	120415	CE0.01U50K/1608,0.01U	0.01U
	120430	CE0.022U50K/1608,0.022U	0.022U
	120419	CE0.1U50K/1608,0.1	0.1
	120421	CE0.1U50K/2012,0.1U	0.1U
	120245	CE0.1U50K/3216,0.1U	0.1U
	120246	CE0.1U50Z/1608,0.1U	0.1U
	120352	CE100P50J/2012,100P	100P
	120349	CE10P50J/1608,10P	10P
	129261	CE10U10M/2012,10U10	10U10
	129356	CE10U6.3K/2012,10U6.3	10U6.3
	120425	CE1500P50J/2012,1500P	1500P
	120357	CE150P50J/1608,150P	150P
	120249	CE1U10Z/1608,1/10	
	120251	CE1U50Z/2012,1U	1U
	120267	CE20P50J/1608,20P	20P
	120375	CE270P50J/1608,270P	270P
	OPEN	CE270P50J/1608,OPEN	OPEN
	120377	CE33P50J/1608,33P	33P
	120382	CE39P50J/1608,39P	39P
	120388	CE47P50J/1608,47P	47P
	120402	CE6P50J/1608,6P	6P
	119171	D/1N4148/SOT23,1N4148	1N4148
	119190	D/BAS21/SOT23,BAS21	BAS21

ELECTRICAL PARTS LIST

REF	ITEM NO.	DEFINE	VALUE
	119196	D/BAV99/SOT23,BAV99	BAV99
	112233	DP/KSP52H,KSP52H	KSP52H
	111454	DS09P/M/111454,D-SUB09P	D-SUB09P
	120122	EC100U16M/RC,100/16	100/16
	120117	EC10U16M/RC,10/16	
	120125	EC10U35M/RC,10/35	10/35
	120104	EC10U50M/SC,10/50	10/50
	128130	EC10U50M/VE,10/50	10/50
	128135	EC1U50M/VE,1/50	1/50
	120132	EC220U16M/RC,220/16	220/16
	120131	EC22U16M/RC,22/16	22/16
	125330	EC4.7U50M/BLA,4.7/50	4.7/50
	120103	EC47U25M/SC,47/25	47/25
	120116	EC47U50M/SC,47/50	47/50
	FIDUCIAL	HOLE/FIDUCIAL,VALUE	VALUE
	GND	HOLE/GND/3.5,GND	GND
	HOLE	HOLE/PCB/4,VALUE	VALUE
	137629	IS61WV25616EDBLL-10TLI/TSOP44P/2,IS61WV25616EDBLL-10TLI	IS61WV25616EDBLL-10TLI
	118688	KIA7027AT/TSM,KIA7027AT	KIA7027AT
	129959	LD/G/1608/BL-HGE36A,BL-HGE36A	BL-HGE36A
	129968	LD/R/1608/BL-HUE36A,BL-HUE36A	BL-HUE36A
	105831	MA0.012U100J/T,0.012/100(M)	0.012/100(M)
	130124	MAX3232EUE/TSSOP16P/2,MAX3232EUE	MAX3232EUE
	132431	MAX3483ESA/SO08P/2,MAX3483ESA	MAX3483ESA
	135396	MAX3488ESA/SO08P/2,MAX3488ESA	MAX3488ESA
	110823	MD/5621/08H/110823,MODULAR08P	MODULAR08P
	131291	MP4460DQ/QFN10P/2,MP4460DQ	MP4460DQ
	118730	NJM072M/DMP08P,NJM072M	NJM072M
	118672	NPN/2N3904/SOT23,2N3904	2N3904
	118670	NPN/KTD1304/SOT23,KTD1304	KTD1304
	OPEN	NPN/KTD1304/SOT23,OPEN	OPEN
	118872	PC/LTV817B,LTV817B	LTV817B
	132123	PCA9535/TSSOP24P/2,PCA9535	PCA9535
	128203	PHN05P/128203,PHONE05P	PHONE05P
	118657	PNP/KTA1666/SOT89,KTA1666	KTA1666
	112158	PU/JPP011-97CAS34,JPP 1197CAS34	JPP 1197CAS34
	119333	R0J/1608,0	0
	OPEN	R0J/1608,OPEN	OPEN
	119334	R0J/2012,0	0
	120063	R0J/3216,0	0
	119454	R1.8KJ/1608,1.8K	1.8K
	119352	R100J/1608,100	100
	119353	R100J/2012,100	100
	119369	R100KJ/1608,100K	100K
	OPEN	R100KJ/1608,OPEN	OPEN
	119370	R100KJ/2012,100K	100K
	119346	R10J/2012,10	10
	119366	R10KJ/1608,10K	10K
	OPEN	R10KJ/1608,OPEN	OPEN
	119367	R10KJ/2012,10K	10K
	119377	R10MJ/2012,10M	10M
	119391	R120J/1608,120	120
	OPEN	R120J/2012,OPEN	OPEN
	119405	R120KJ/2012,120K	120K
	119400	R12KJ/1608,12K	12K
	119427	R15KJ/1608,15K	15K
	119445	R16KJ/2012,16K	16K
	119466	R180KJ/2012,180K	180K
	119460	R18KJ/1608,18K	18K
	119361	R1KJ/1608,1K	1K
	104607	R2.2J/2W/MF/T,2.2 2W	2.2 2W
	119496	R2.2KJ/1608,2.2K	2.2K
	119526	R2.7KJ/1608,2.7K	2.7K
	119475	R20KJ/1608,20K	20K
	119476	R20KJ/2012,20K	20K

ELECTRICAL PARTS LIST

REF	ITEM NO.	DEFINE	VALUE
	119486	R22J/1608,22	22
	119498	R22KJ/1608,22K	22K
	119575	R3.3KJ/1608,3.3K	3.3K
	OPEN	R3.3KJ/1608,OPEN	OPEN
	119569	R330J/1608,330	330
	OPEN	R330J/1608,OPEN	OPEN
	119608	R39KJ/2012,39K	39K
	119624	R4.7KJ/1608,4.7K	4.7K
	119619	R470J/1608,470	470
	119616	R47J/1608,47	47
	119629	R47KJ/1608,47K	47K
	119669	R560J/1608,560	560
	128443	R6.2KJ/1608,6.2K	6.2K
	119706	R6.8KJ/1608,6.8K	6.8K
	119746	R8.2KJ/1608,8.2K	8.2K
	124569	SD/B340A/SMA,B340A	B340A
	125880	SD/SS16/SMA,SS16	SS16
	111956	SL/JSS-1218,JSS-1218	JSS-1218
	123668	SM712/SOT23,SM712	SM712
	135141	STM32F103ZET7/LQFP144P/2,STM32F103ZET7	STM32F103ZET7
	124663	TC/ITS-1163,ITS-1163	ITS-1163
	136579	TER/BL/KF2EDGR-X/03H/B/136579,TERMINAL03P	TERMINAL03P
	TP	TP,/RST	/RST
	TP	TP,JTCK	JTCK
	TP	TP,JTDI	JTDI
	TP	TP,JTDO	JTDO
	TP	TP,JTMS	JTMS
	TP	TP,NJTRST	NJTRST
	TP	TP,VALUE	VALUE
	106871	TP/TP00325-21/T,TP00325-21	TP00325-21
	118824	XR16L788CQ/QFP100P/2,XR16L788CQ	XR16L788CQ
SD/BATT-CHK			
	127187	02P/ASSY/3.96/160MM/127187,ASS'Y-02P	ASS'Y-02P
	107069	04P/ASSY/2.5/150MM/107069,ASS'Y-04P	ASS'Y-04P
	105326	102/SEM/FT-63TP,1K	1K
	105329	103/SEM/FT-63TP,10K	10K
	127462	120OHM/BEAD/127462,120ohm	120ohm
	111047	20P/12511HS/1.25,12511HS-20P	12511HS-20P
	131506	74LV163DB/SSOP16P/2,74LV163DB	74LV163DB
	135983	74LVC04A/SO14P,74LVC04A	74LVC04A
	118980	7812/KIA/SOT89,7812	7812
	119147	AP1117E33L/SOT223,AP1117E33L	AP1117E33L
	113478	BK/113478,Bracket	Bracket
	113528	BK/113528,Bracket	Bracket
	120235	CE0.001U50J/2012,0.001U	0.001U
	120421	CE0.1U50K/2012,0.1U	0.1U
	120246	CE0.1U50Z/1608,0.1U	0.1U
	120247	CE0.1U50Z/2012,0.1U	0.1U
	120356	CE15P50J/2012,15P	15P
	120378	CE33P50J/2012,33P	33P
	120443	CE4700P50K/2012,4700P	4700P
	120391	CE470P50J/2012,470P	470P
	105421	EC100U25M/RG/T,100/25	100/25
	105356	EC470U35M/RD/T,470/35	470/35
	105508	EC47U25M/RG/T,47/25	47/25
	105511	EC47U50M/SG/T,47/50	47/50
	FIDUCIAL	HOLE/FIDUCIAL,VALUE	VALUE
	HOLE	HOLE/PCB/4,VALUE	VALUE
	SCERW	HOLE/SCREW/3.2,VALUE	VALUE
	128011	HS/128011/31.5,Heat sink	Heat sink
	129968	LD/R/1608/BL-HUE36A,BL-HUE36A	BL-HUE36A
	130293	LD/Y/1608/BL-HKB36A,BL-HKB36A	BL-HKB36A
	132863	N/IRFB4332PBF/TO220,IRFB4332PBF	IRFB4332PBF
	131635	NJM2746M/DMP08P,NJM2746M	NJM2746M



ELECTRICAL PARTS LIST

REF	ITEM NO.	DEFINE	VALUE
	129794	NL17SZ08DFT2G/SC70-5,NL17SZ08D	NL17SZ08D
	119334	R0J/2012,0	0
	104235	R100J/A,100	100
	119369	R100KJ/1608,100K	100K
	119370	R100KJ/2012,100K	100K
	104234	R10J/A,10	10
	119367	R10KJ/2012,10K	10K
	120089	R10KJ/ARY8Y/SMD/2,10K	10K
	119420	R150J/2012,150	150
	104545	R1J/3W/MO,1 3W	1 3W
	119362	R1KJ/2012,1K	1K
	119497	R2.2KJ/2012,2.2K	2.2K
	119502	R220KJ/2012,220K	220K
	119486	R22J/1608,22	22
	119487	R22J/2012,22	22
	119499	R22KJ/2012,22K	22K
	119605	R3.9KJ/2012,3.9K	3.9K
	119619	R470J/1608,470	470
	119620	R470J/2012,470	470
	119617	R47J/2012,47	47
	119630	R47KJ/2012,47K	47K
	125880	SD/SS16/SMA,SS16	SS16
	123779	SOCKET/DM1AA,DM1AA	DM1AA
	106871	TP/TP00325-21/T,TP00325-21	TP00325-21
SENSOR			
	OPEN	02P/LW-5267/2.5,OPEN	OPEN
	106083	10000PF/EMI/106083,10000pF	10000pF
	122909	10P/ASSY/2.5/60MM/122909,ASS"Y-10P	ASS"Y-10P
	111350	10P/LA-5268/2.5,LA5268-10P	LA5268-10P
	119250	15UH/SHP0760P,15uH	15uH
	111204	16P/12511HS/1.25,12511HS-16P	12511HS-16P
	111047	20P/12511HS/1.25,12511HS-20P	12511HS-20P
	132209	24V/HDF41-024H/S1L1,24V	24V
	OPEN	503/SEM/FT-63TP,OPEN	OPEN
	130222	74LV165DB/SSOP16P/2,74LV165DB	74LV165DB
	136841	74LV245/SO20P/2,74LV245	74LV245
	OPEN	ADS1013/SOP10P/2,OPEN	OPEN
	119147	AP1117E33L/SOT223,AP1117E33L	AP1117E33L
	113478	BK/113478,Bracket	Bracket
	126495	CE0.001U250J/2012,0.001U	0.001U
	OPEN	CE0.01U50K/2012,OPEN	OPEN
	120421	CE0.1U50K/2012,0.1U	0.1U
	OPEN	CE0.1U50K/2012,OPEN	OPEN
	120245	CE0.1U50K/3216,0.1U	0.1U
	120246	CE0.1U50Z/1608,0.1U	0.1U
	OPEN	CE0.1U50Z/1608,OPEN	OPEN
	120247	CE0.1U50Z/2012,0.1U	0.1U
	OPEN	CE0.22U50Z/2012,OPEN	OPEN
	OPEN	CE100P50J/2012,OPEN	OPEN
	120357	CE150P50J/1608,150P	150P
	OPEN	CE1U50Z/2012,OPEN	OPEN
	120367	CE22P50J/1608,22P	22P
	OPEN	CE330P50J/2012,OPEN	OPEN
	119171	D/1N4148/SOT23,1N4148	1N4148
	OPEN	D/BAV99/SOT23,OPEN	OPEN
	125340	EC100U35M/BLA,100/35	100/35
	120117	EC10U16M/RC,10/16	
	OPEN	EC10U16M/RC,OPEN	OPEN
	120125	EC10U35M/RC,10/35	10/35
	120132	EC220U16M/RC,220/16	220/16
	120099	EC22U6.3M/JC,22/6.3	22/6.3
	105511	EC47U50M/SG/T,47/50	47/50
	FIDUCIAL	HOLE/FIDUCIAL,VALUE	VALUE

ELECTRICAL PARTS LIST

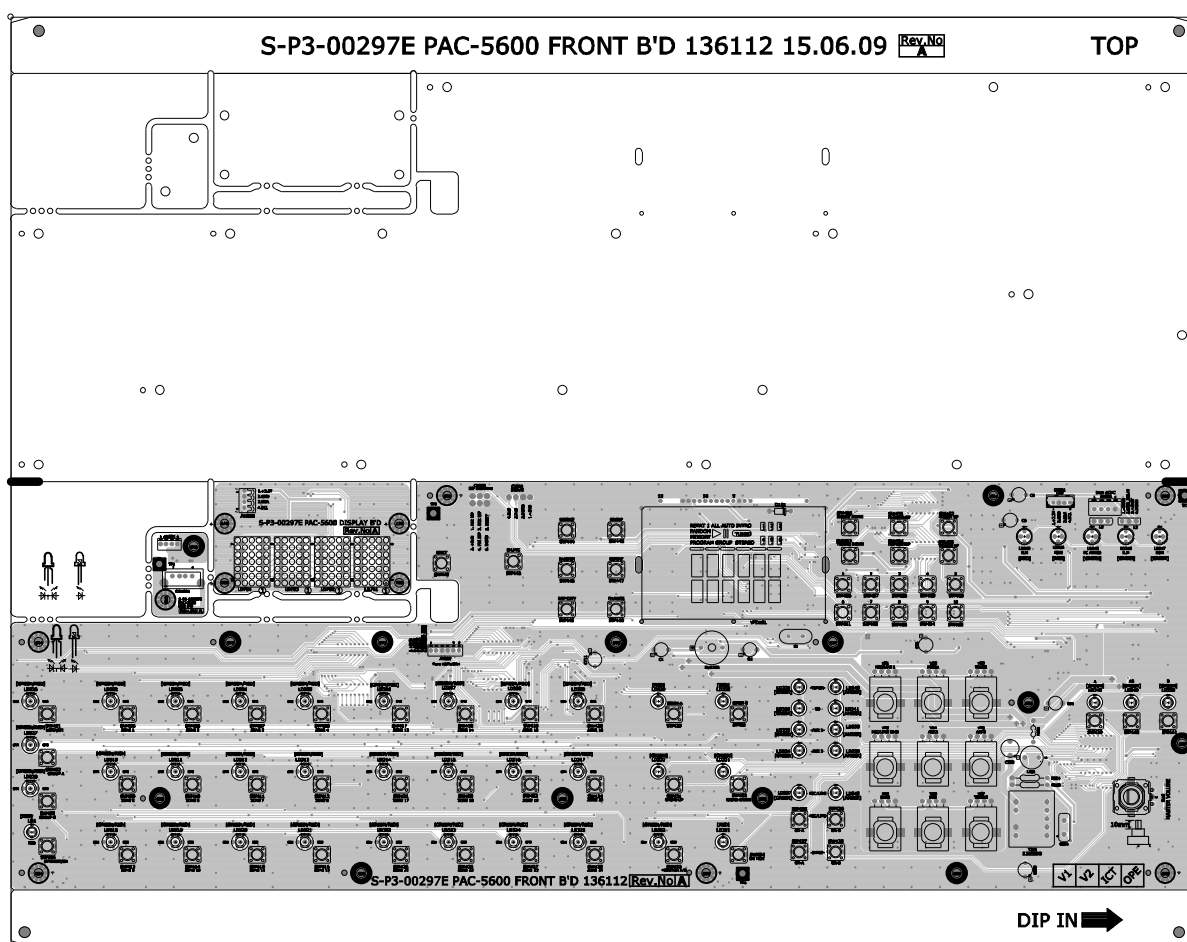
REF	ITEM NO.	DEFINE	VALUE
	GND	HOLE/GND/3.5,GND	GND
	HOLE	HOLE/PCB/4,VALUE	VALUE
	129959	LD/G/1608/BL-HGE36A,BL-HGE36A	BL-HGE36A
	131291	MP4460DQ/QFN10P/2,MP4460DQ	MP4460DQ
	OPEN	NJM072M/DMP08P,OPEN	OPEN
	118672	NPN/2N3904/SOT23,2N3904	2N3904
	103384	PC/LTV847,LTV847	LTV847
	103432	PC/PC817,PC817	PC817
	OPEN	R0J/1608,OPEN	OPEN
	120063	R0J/3216,0	0
	OPEN	R0J/3216,OPEN	OPEN
	119369	R100KJ/1608,100K	100K
	119366	R10KJ/1608,10K	10K
	OPEN	R120KJ/2012,OPEN	OPEN
	119433	R150KJ/1608,150K	150K
	OPEN	R15KJ/2012,OPEN	OPEN
	119490	R220J/1608,220	220
	OPEN	R22J/1608,OPEN	OPEN
	119498	R22KJ/1608,22K	22K
	119530	R27KJ/1608,27K	27K
	119575	R3.3KJ/1608,3.3K	3.3K
	OPEN	R330J/2012,OPEN	OPEN
	119564	R33J/1608,33	33
	OPEN	R4.7J/2012,OPEN	OPEN
	OPEN	R4.99KF/2012,OPEN	OPEN
	119619	R470J/1608,470	470
	OPEN	R47KJ/2012,OPEN	OPEN
	OPEN	R47KJ/3216,OPEN	OPEN
	OPEN	R51KJ/2012,OPEN	OPEN
	OPEN	R68KJ/2012,OPEN	OPEN
	124569	SD/B340A/SMA,B340A	B340A
	135398	TER/BL/VL085161000AG/08H/B/135398,TERMINAL04P	TERMINAL04P
	135397	TER/BL/VL125161000AG/12H/B/135397,TERMINAL06P	TERMINAL06P
	OPEN	TP,OPEN	OPEN
SPEAKER			
	n.a	02P/ASSY/2.5/200MM/107087,n.a	n.a
	123564	04P/ASSY/3.96/360MM/123564,ASS'Y-04P	ASS'Y-04P
	106083	10000PF/EMI/106083,10000pF	10000pF
	122909	10P/ASSY/2.5/60MM/122909,ASS'Y-10P	ASS'Y-10P
	111365	10P/LW-5267/2.5,LW5267-10P	LW5267-10P
	111204	16P/12511HS/1.25,12511HS-16P	12511HS-16P
	128993	24V/833H-1C-C/S1L1/2,24V	24V
	132209	24V/HDF41-024H/S1L1,24V	24V
	136927	24V/HF115F-024-2Z4A/S2L1,24V	24V
	136927	24V/HF115F-024-2Z4A/S2L1/2,24V	24V
	n.a	24V/R5W-K/S2L1,n.a	n.a
	136841	74LV245/SO20P/2,74LV245	74LV245
	119147	AP1117E33L/SOT223,AP1117E33L	AP1117E33L
	113528	BK/113528,Bracket	Bracket
	126495	CE0.001U250J/2012,0.001U	0.001U
	129534	CE0.01U250J/3216,0.01U250	0.01U250
	120417	CE0.01U50K/2012,0.01U	0.01U
	120245	CE0.1U50K/3216,0.1U	0.1U
	120246	CE0.1U50Z/1608,0.1U	0.1U
	120367	CE22P50J/1608,22P	22P
	119171	D/1N4148/SOT23,1N4148	1N4148
	n.a	D/1N4148/SOT23,n.a	n.a
	119196	D/BAV99/SOT23,BAV99	BAV99
	120117	EC10U16M/RC,10/16	
	120099	EC22U6.3M/JC,22/6.3	22/6.3
	120116	EC47U50M/SC,47/50	47/50
	131634	HD74LV595A/SOP16P/2,HD74LV595A	HD74LV595A
	FIDUCIAL	HOLE/FIDUCIAL,VALUE	VALUE
	GND	HOLE/GND/3.5,GND	GND

ELECTRICAL PARTS LIST

REF	ITEM NO.	DEFINE	VALUE
	HOLE	HOLE/PCB/4,VALUE	VALUE
	SCERW	HOLE/SCREW/3.2,VALUE	VALUE
	129959	LD/G/1608/BL-HGE36A,BL-HGE36A	BL-HGE36A
	105910	MA0.1U250K/DEM/T,0.1/250(M)	0.1/250(M)
	118672	NPN/2N3904/SOT23,2N3904	2N3904
	n.a	NPN/2N3904/SOT23,n.a	n.a
	103401	PSW/RXE110,RXE110	RXE110
	119333	R0J/1608,0	0
	120063	R0J/3216,0	0
	OPEN	R0J/3216,OPEN	OPEN
	119362	R1KJ/2012,1K	1K
	119510	R2.2J/2012,2.2	2.2
	119575	R3.3KJ/1608,3.3K	3.3K
	n.a	R3.3KJ/1608,n.a	n.a
	119564	R33J/1608,33	33
	119645	R4.7J/2012,4.7	4.7
	119625	R4.7KJ/2012,4.7K	4.7K
	119669	R560J/1608,560	560
	104689	R680J/3W/MO,680 3W	680 3W
	n.a	R680J/3W/MO,n.a	n.a
	112022	SL/JSS-2208A,JSS-2208A	JSS-2208A
	131251	TER/BL/VL125151/12H/G/131251,TERMINAL06P	TERMINAL06P
	135397	TER/BL/VL125161000AG/12H/B/135397,TERMINAL06P	TERMINAL06P
	137281	TER/BL/WJ2EDGRH/08H/G/137281,TERMINAL04P	TERMINAL04P
WIRING			
	114174	FAN,DC,80X25,BALL,24V,0.21A,40DBA	MOTOR/FAN
	107185	CON ASS'Y,DS,2P,51004,STRIP,200MM	CONNECTOR ASS'Y
	109389	CARD CABLE,FFC,26P,P1.25,PL/PL,150MM	CABLE
	110702	CARD CABLE,FFC,20P,P1.25,PL/PL,100MM	CABLE
	129078	CON ASS'Y,FL,7P,15001HS,35023,150MM	CONNECTOR ASS'Y
	131053	CON ASS'Y,DS,02P,HCH3960,HBH3960,340MM	CONNECTOR ASS'Y
	134076	CARD CABLE,FFC,16P,140mm,P1.25,P6	CABLE
	136326	TUNER,MODULE,FM,KST-W004FS1-S86S	TUNER
	136328	CARD CABLE,FFC,09P,P1.25,PL/PL,130MM	CABLE
	136436	TRANSFLASH,Sandisc micro 8G,BULK,mine	ETC
	136578	CON ASS'Y,DS,02P,HCH3960,HCH3960,180MM	CONNECTOR ASS'Y
	136601	CON ASS'Y,7P,YH396,AWG18,100MM	CONNECTOR ASS'Y
	137229	CARD CABLE,FFC,18P,P1.25,250mm,P6	CABLE
	112378	MIC,UNIT,CONDENSOR,1K,CON ASSY 2P 300MM	MICROPHONE

TOP & BOTTOM VIEW OF P.C BOARD

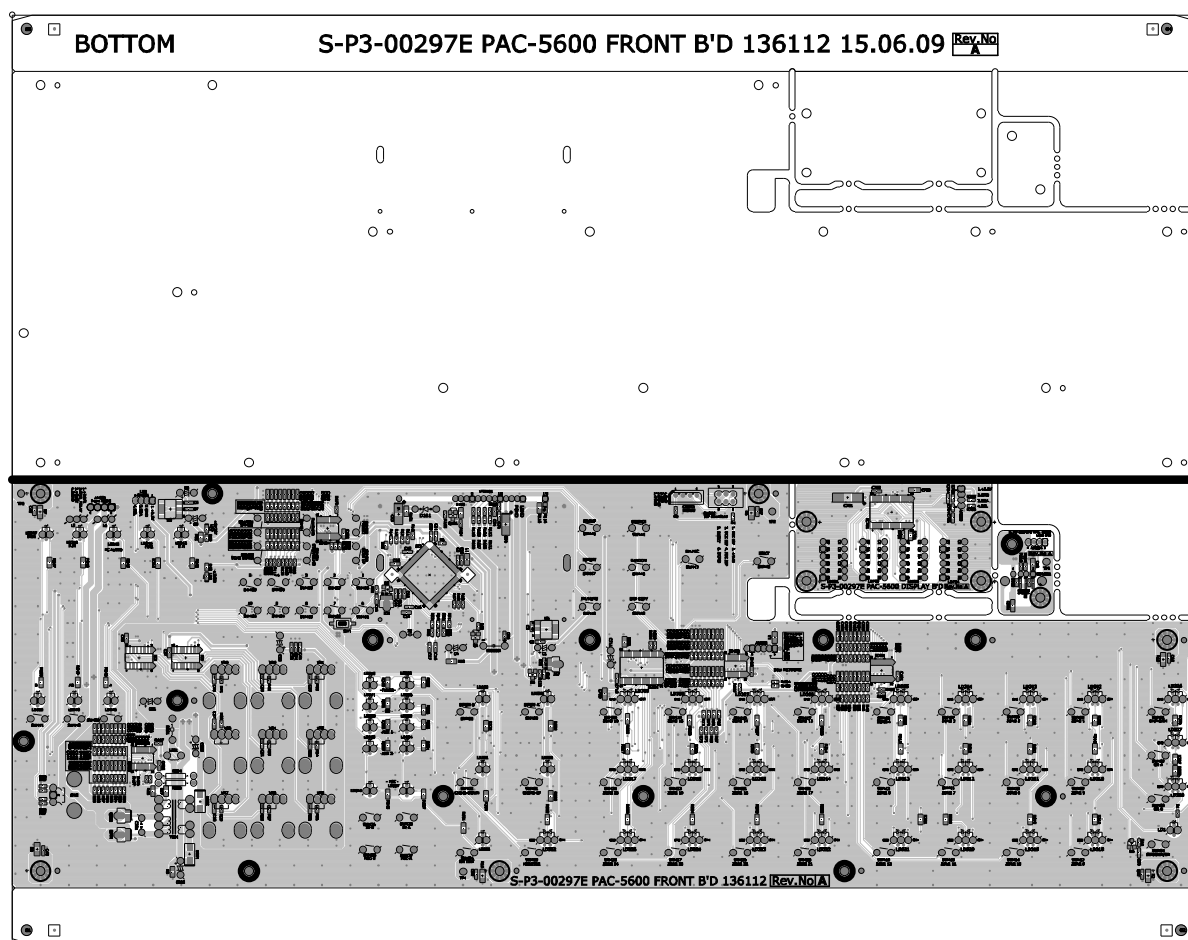
- FRONT - TOP



interM	
http://www.interM.com	
REV	DESCRIPTION
1.0	Initial Release
1.1	Change Pin 1 to 1.25mm
1.2	Change Pin 2 to 1.25mm
1.3	Change Pin 3 to 1.25mm
1.4	Change Pin 4 to 1.25mm
1.5	Change Pin 5 to 1.25mm
1.6	Change Pin 6 to 1.25mm
1.7	Change Pin 7 to 1.25mm
1.8	Change Pin 8 to 1.25mm
1.9	Change Pin 9 to 1.25mm
1.10	Change Pin 10 to 1.25mm
1.11	Change Pin 11 to 1.25mm
1.12	Change Pin 12 to 1.25mm
1.13	Change Pin 13 to 1.25mm
1.14	Change Pin 14 to 1.25mm
1.15	Change Pin 15 to 1.25mm
1.16	Change Pin 16 to 1.25mm
1.17	Change Pin 17 to 1.25mm
1.18	Change Pin 18 to 1.25mm
1.19	Change Pin 19 to 1.25mm
1.20	Change Pin 20 to 1.25mm
1.21	Change Pin 21 to 1.25mm
1.22	Change Pin 22 to 1.25mm
1.23	Change Pin 23 to 1.25mm
1.24	Change Pin 24 to 1.25mm
1.25	Change Pin 25 to 1.25mm
1.26	Change Pin 26 to 1.25mm
1.27	Change Pin 27 to 1.25mm
1.28	Change Pin 28 to 1.25mm
1.29	Change Pin 29 to 1.25mm
1.30	Change Pin 30 to 1.25mm
1.31	Change Pin 31 to 1.25mm
1.32	Change Pin 32 to 1.25mm
1.33	Change Pin 33 to 1.25mm
1.34	Change Pin 34 to 1.25mm
1.35	Change Pin 35 to 1.25mm
1.36	Change Pin 36 to 1.25mm
1.37	Change Pin 37 to 1.25mm
1.38	Change Pin 38 to 1.25mm
1.39	Change Pin 39 to 1.25mm
1.40	Change Pin 40 to 1.25mm
1.41	Change Pin 41 to 1.25mm
1.42	Change Pin 42 to 1.25mm
1.43	Change Pin 43 to 1.25mm
1.44	Change Pin 44 to 1.25mm
1.45	Change Pin 45 to 1.25mm
1.46	Change Pin 46 to 1.25mm
1.47	Change Pin 47 to 1.25mm
1.48	Change Pin 48 to 1.25mm
1.49	Change Pin 49 to 1.25mm
1.50	Change Pin 50 to 1.25mm
1.51	Change Pin 51 to 1.25mm
1.52	Change Pin 52 to 1.25mm
1.53	Change Pin 53 to 1.25mm
1.54	Change Pin 54 to 1.25mm
1.55	Change Pin 55 to 1.25mm
1.56	Change Pin 56 to 1.25mm
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1.58	Change Pin 58 to 1.25mm
1.59	Change Pin 59 to 1.25mm
1.60	Change Pin 60 to 1.25mm
1.61	Change Pin 61 to 1.25mm
1.62	Change Pin 62 to 1.25mm
1.63	Change Pin 63 to 1.25mm
1.64	Change Pin 64 to 1.25mm
1.65	Change Pin 65 to 1.25mm
1.66	Change Pin 66 to 1.25mm
1.67	Change Pin 67 to 1.25mm
1.68	Change Pin 68 to 1.25mm
1.69	Change Pin 69 to 1.25mm
1.70	Change Pin 70 to 1.25mm
1.71	Change Pin 71 to 1.25mm
1.72	Change Pin 72 to 1.25mm
1.73	Change Pin 73 to 1.25mm
1.74	Change Pin 74 to 1.25mm
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1.80	Change Pin 80 to 1.25mm
1.81	Change Pin 81 to 1.25mm
1.82	Change Pin 82 to 1.25mm
1.83	Change Pin 83 to 1.25mm
1.84	Change Pin 84 to 1.25mm
1.85	Change Pin 85 to 1.25mm
1.86	Change Pin 86 to 1.25mm
1.87	Change Pin 87 to 1.25mm
1.88	Change Pin 88 to 1.25mm
1.89	Change Pin 89 to 1.25mm
1.90	Change Pin 90 to 1.25mm
1.91	Change Pin 91 to 1.25mm
1.92	Change Pin 92 to 1.25mm
1.93	Change Pin 93 to 1.25mm
1.94	Change Pin 94 to 1.25mm
1.95	Change Pin 95 to 1.25mm
1.96	Change Pin 96 to 1.25mm
1.97	Change Pin 97 to 1.25mm
1.98	Change Pin 98 to 1.25mm
1.99	Change Pin 99 to 1.25mm
2.00	Change Pin 100 to 1.25mm

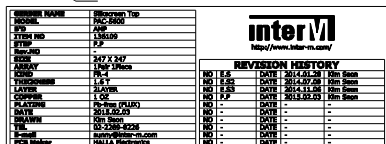
TOP & BOTTOM VIEW OF P.C BOARD

- FRONT - BOTTOM



inter	
REVISION HISTORY	
REV.	DESCRIPTION
1	Initial release
2	Change in component values
3	Change in component values
4	Change in component values
5	Change in component values
6	Change in component values
7	Change in component values
8	Change in component values
9	Change in component values
10	Change in component values
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13	Change in component values
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61	Change in component values
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63	Change in component values
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- AMP - TOP



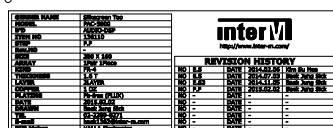
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15.02.03

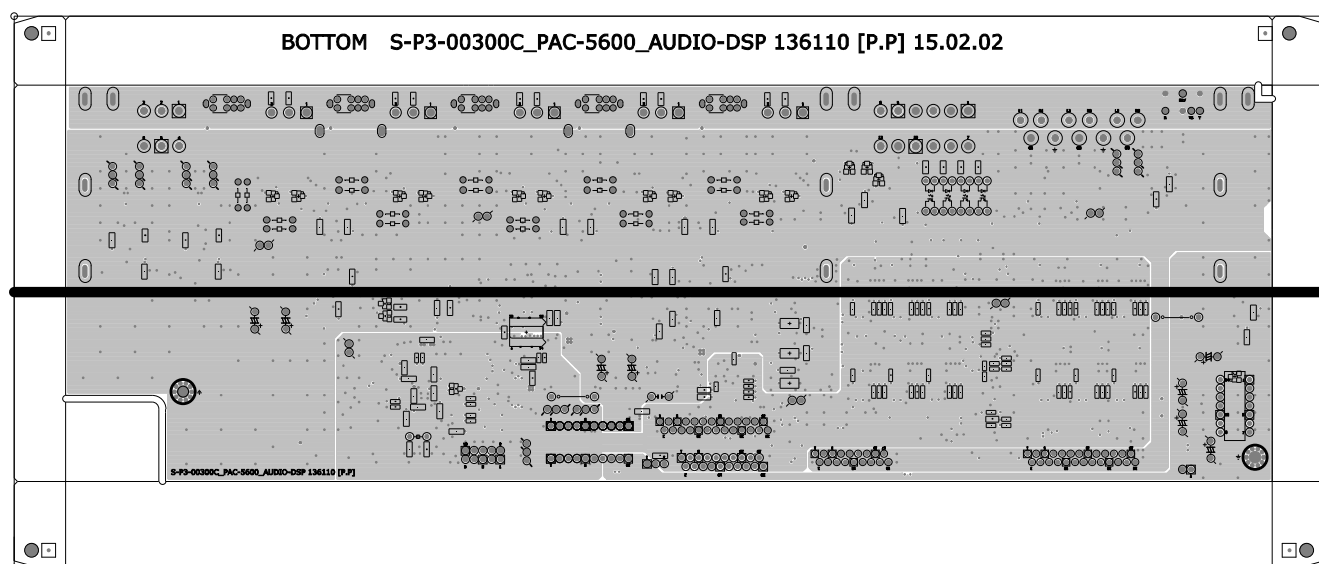
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- AUDIO_DSP - TOP



TOP & BOTTOM VIEW OF P.C BOARD

- AUDIO_DSP - BOTTOM



GERBER NAME	Silicones Top
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TYPE	AUDIO-DSP
ITEM NO	136110
TYPE	P.P
ITEM NO	-
SIZE	380 X 160
ARRAY	1 Pin 1 Pin
FORM	FR-4
THICKNESS	1.6
LAYER	2 LAYERS
COPPER	1 OZ
PLATING	2 OZ (PLUG)
DATE	2015.02.02
DRIVER	Bank Jura Sck
TEL	02-2389-4271
E-mail	halla@halla-elec.com
PCB Maker	HALLA Electronics

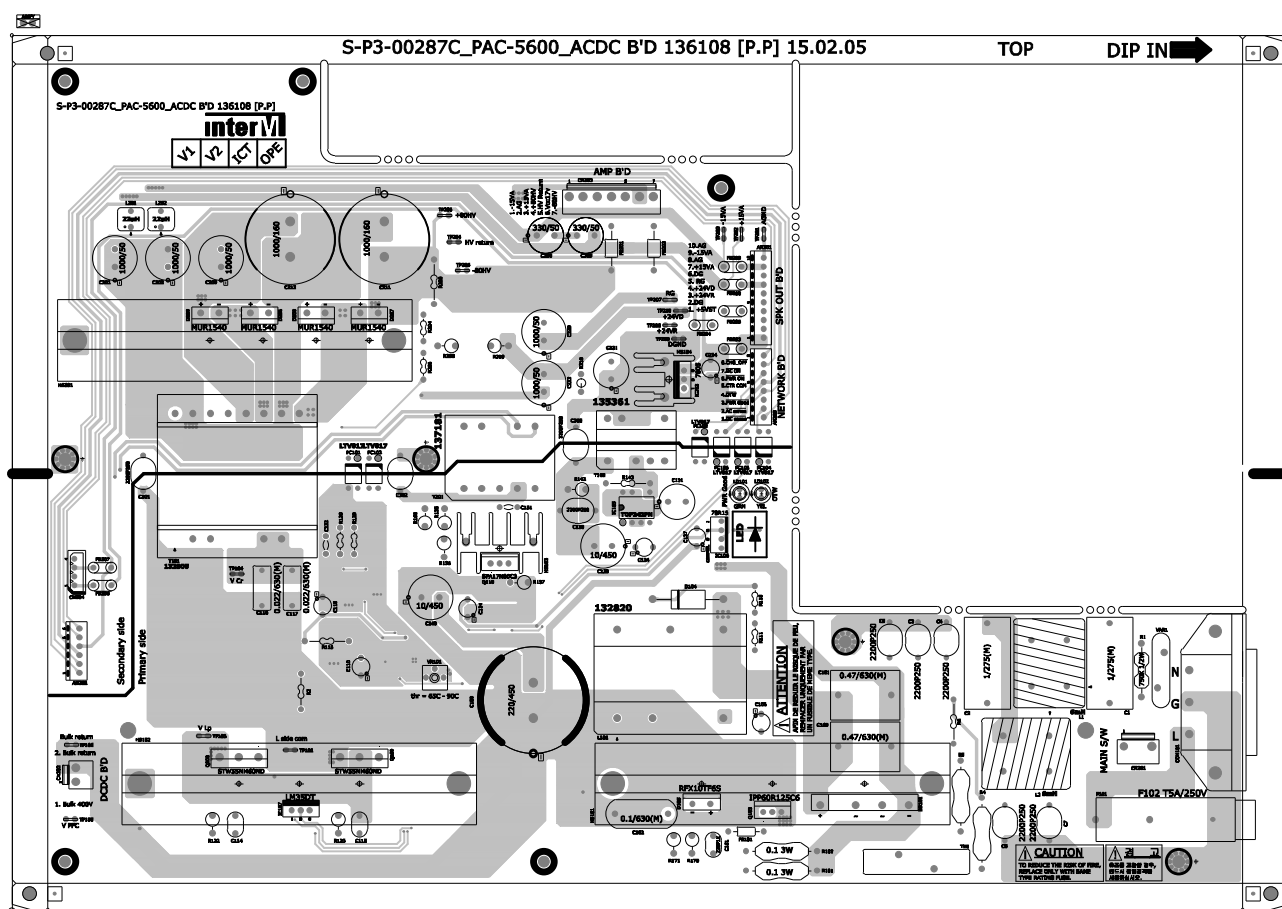
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<http://www.inter-m.com/>

REVISION HISTORY

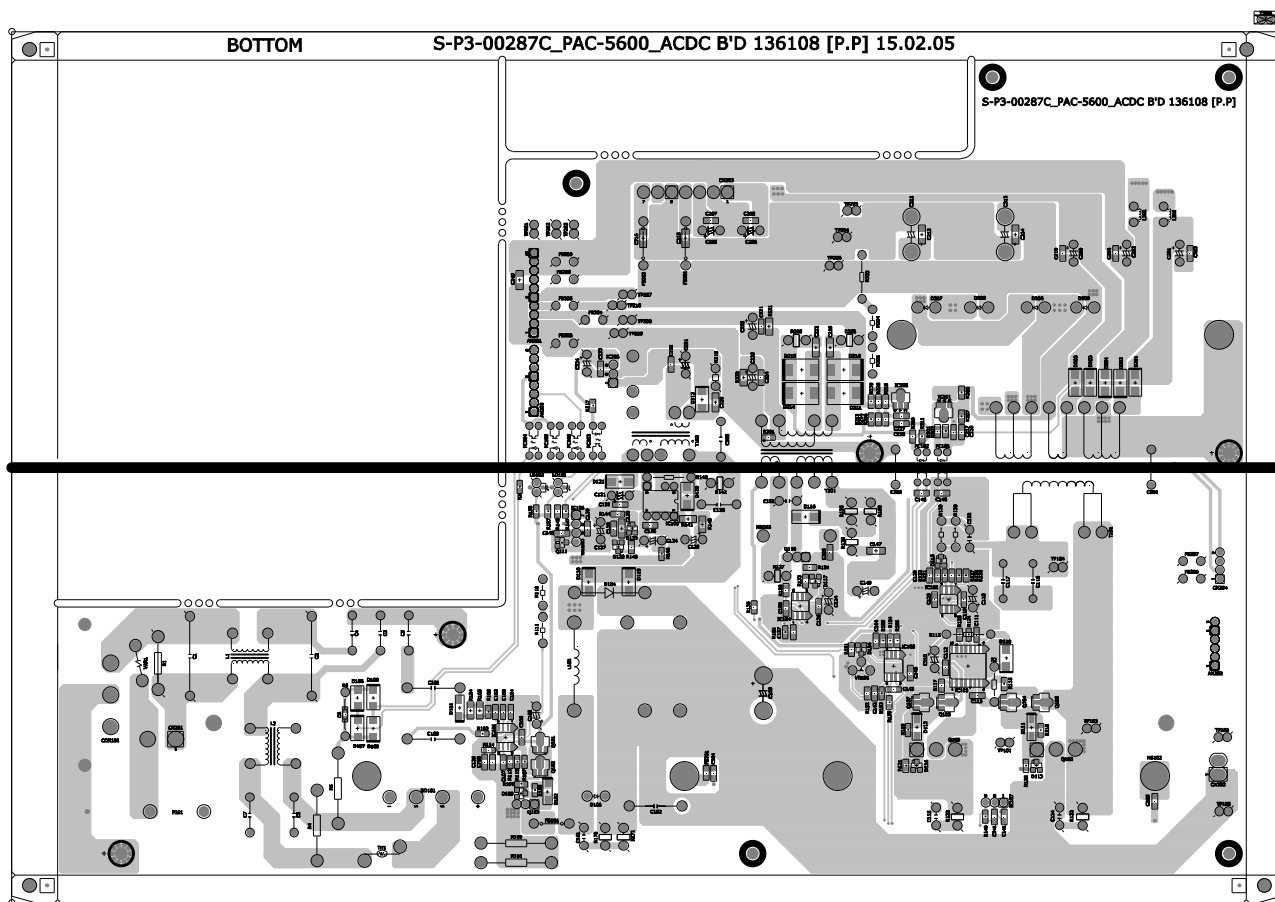
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NO	E.S	DATE	2014.07.03	Bank Jura Sck	
NO	E.S	DATE	2014.11.25	Bank Jura Sck	
NO	P.P	DATE	2015.02.02	Bank Jura Sck	
NO	-	DATE	-	-	
NO	-	DATE	-	-	
NO	-	DATE	-	-	
NO	-	DATE	-	-	

- ACDC - TOP

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TOP & BOTTOM VIEW OF P.C BOARD

- ACDC - BOTTOM



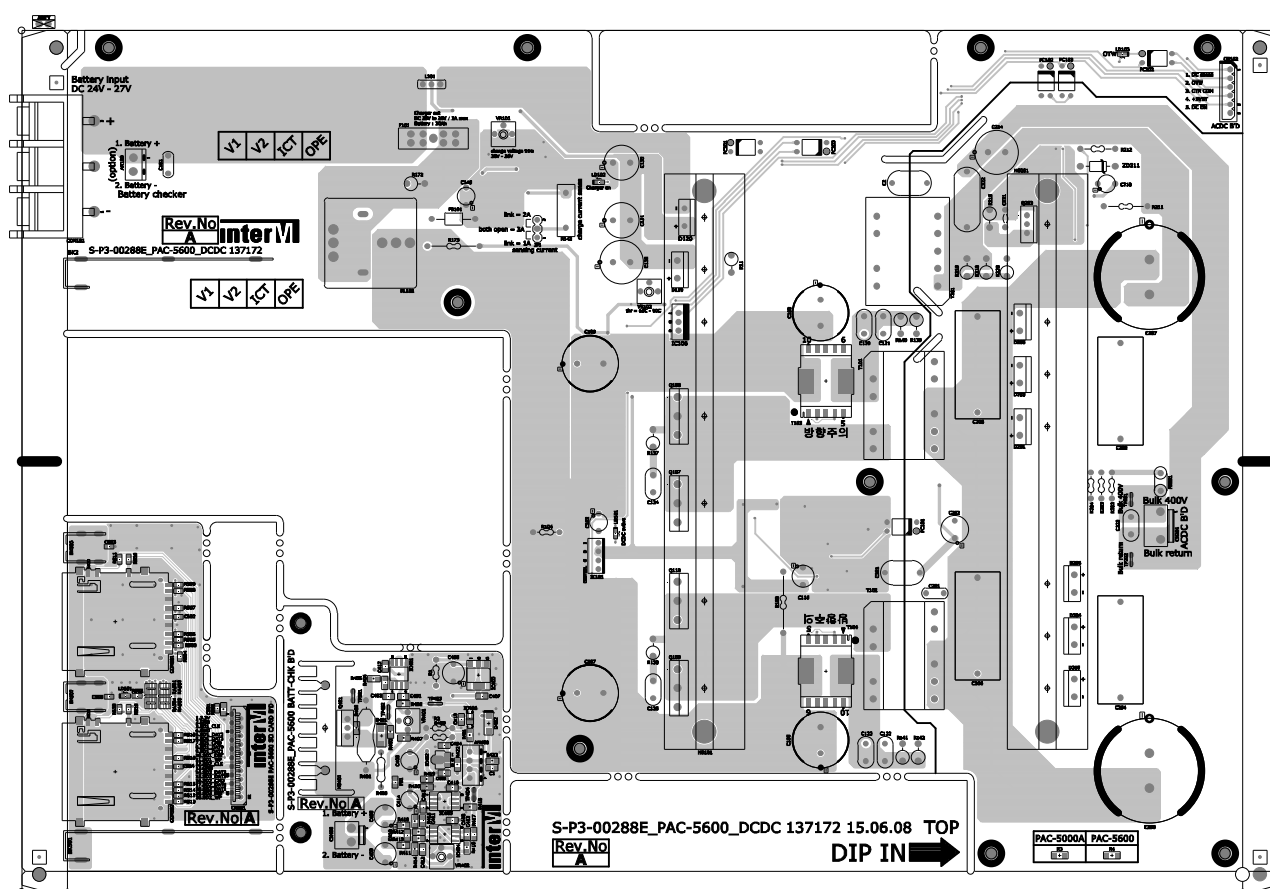
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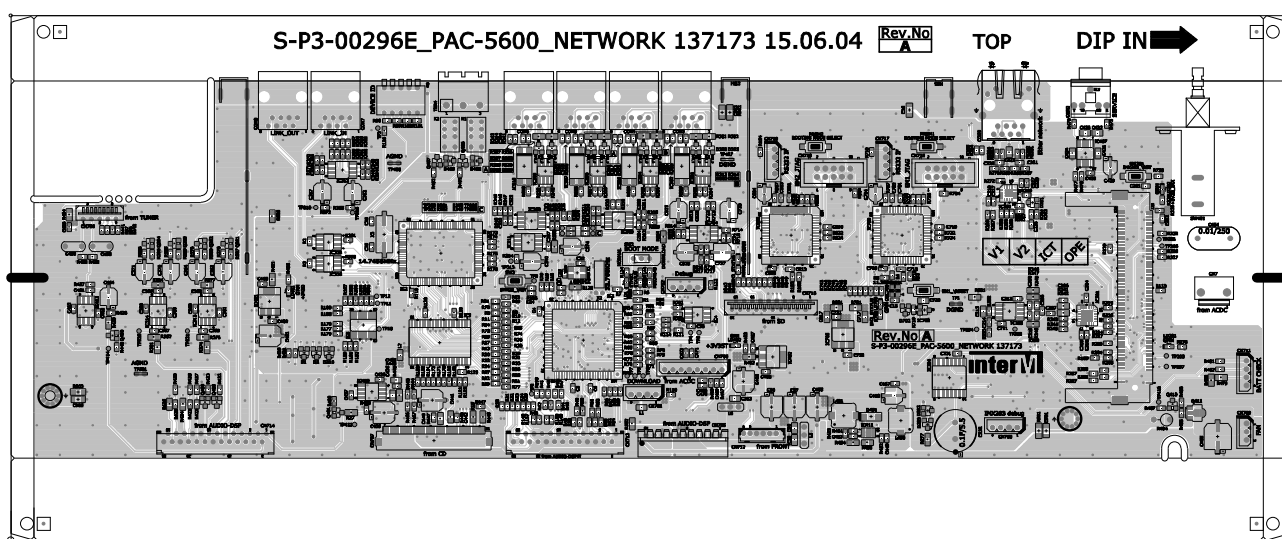
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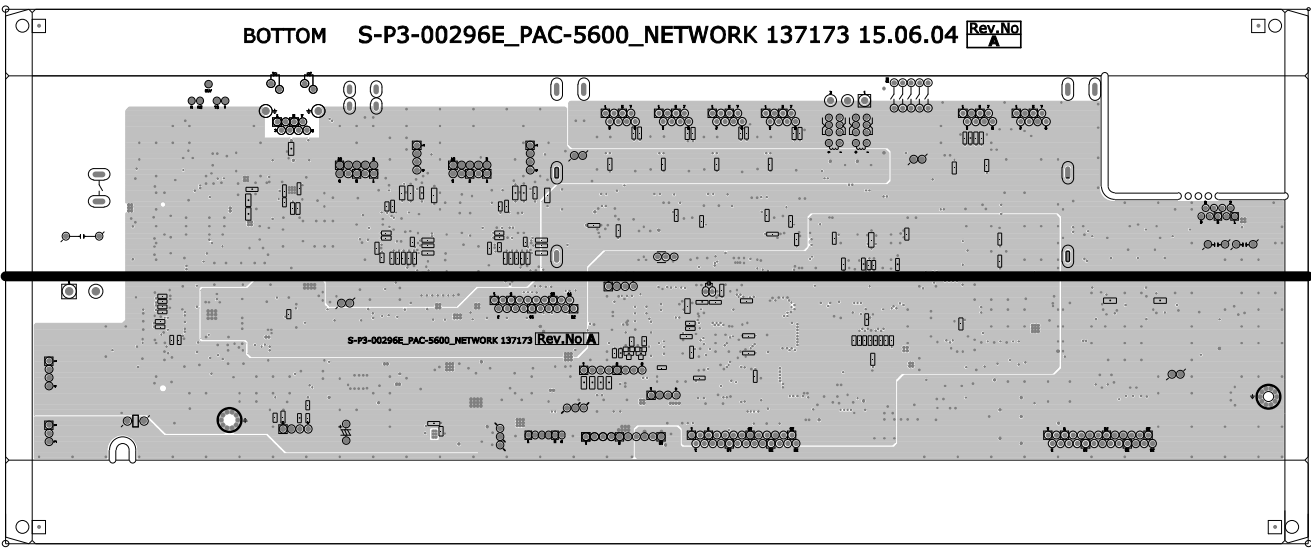
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NO	1.2	2015.02.14	Revisiun 1.2
NO	1.3	2015.02.14	Revisiun 1.3
NO	1.4	2015.02.14	Revisiun 1.4
NO	1.5	2015.02.14	Revisiun 1.5
NO	1.6	2015.02.14	Revisiun 1.6
NO	1.7	2015.02.14	Revisiun 1.7
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NO	1.9	2015.02.14	Revisiun 1.9
NO	1.10	2015.02.14	Revisiun 1.10
NO	1.11	2015.02.14	Revisiun 1.11
NO	1.12	2015.02.14	Revisiun 1.12
NO	1.13	2015.02.14	Revisiun 1.13
NO	1.14	2015.02.14	Revisiun 1.14
NO	1.15	2015.02.14	Revisiun 1.15
NO	1.16	2015.02.14	Revisiun 1.16
NO	1.17	2015.02.14	Revisiun 1.17
NO	1.18	2015.02.	

TOP & BOTTOM VIEW OF P.C BOARD

- NETWORK - TOP

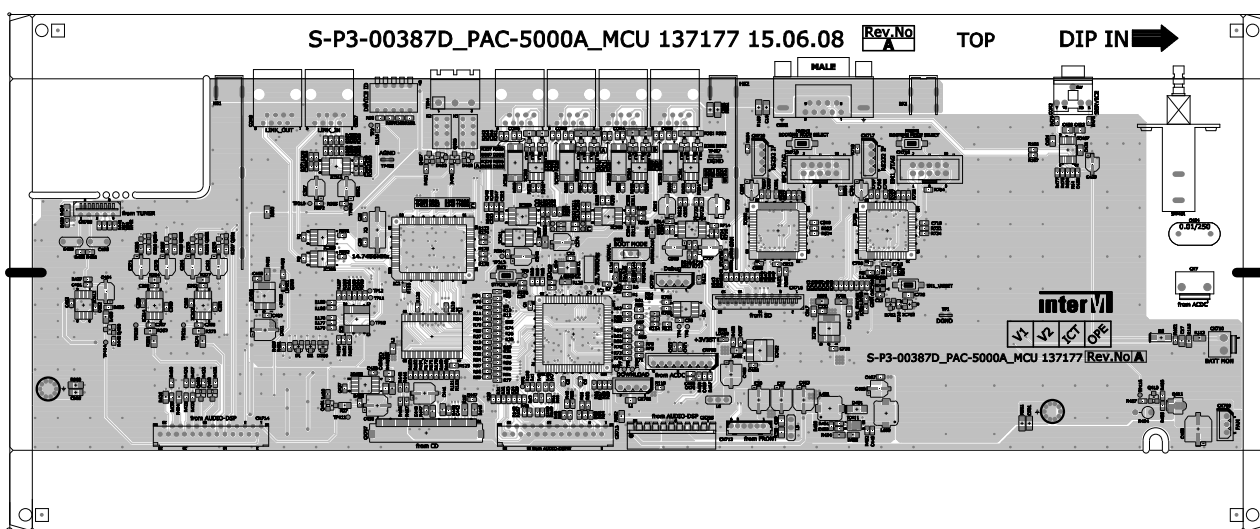


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TOP & BOTTOM VIEW OF P.C BOARD

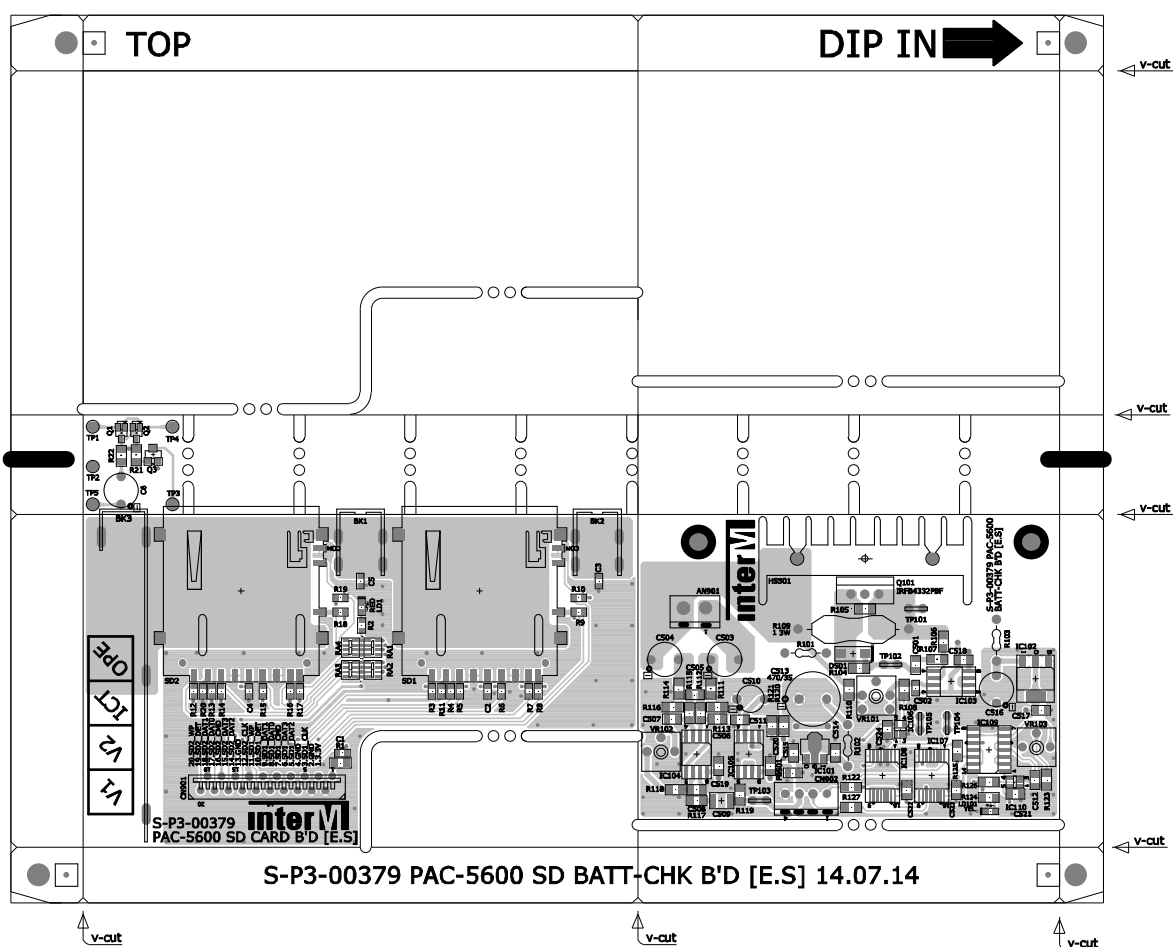
- MCU - TOP



interM http://www.inter-m.com/	
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1.2	1.2
1.3	1.3
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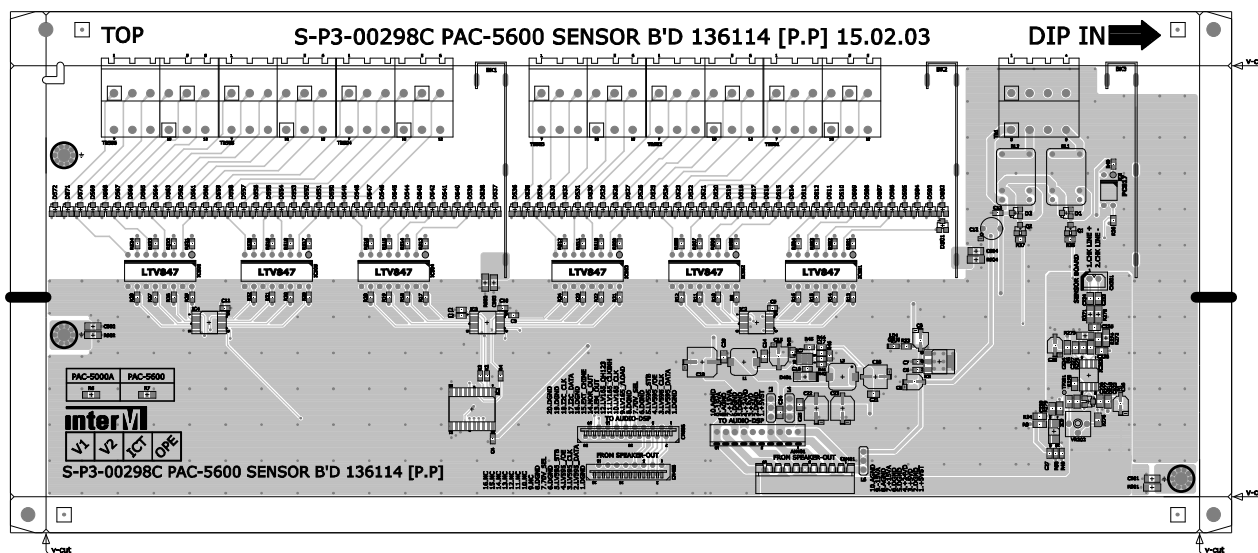
- SD/BATT-CHK - TOP



GERBER NAME	Silkscreen Top
MODEL	PAC-5000
BVD	SD_BATT
ITEM NO	
STEP	E.S
Rev_NO	-
SIZE	187 X 160
ARRAY	2Pair 1Place
KIND	RR-4
THICKNESS	1.6 T
LAYER	2LAYER
COPPER	1 OZ
PLATING	70-free (FLUX)
DATE	2014.07.14
DRAWN	Kang Heon
TBL	02-2986-0234
E-mail	derio01@inter-m.com
PCB maker	HAU & Electronics

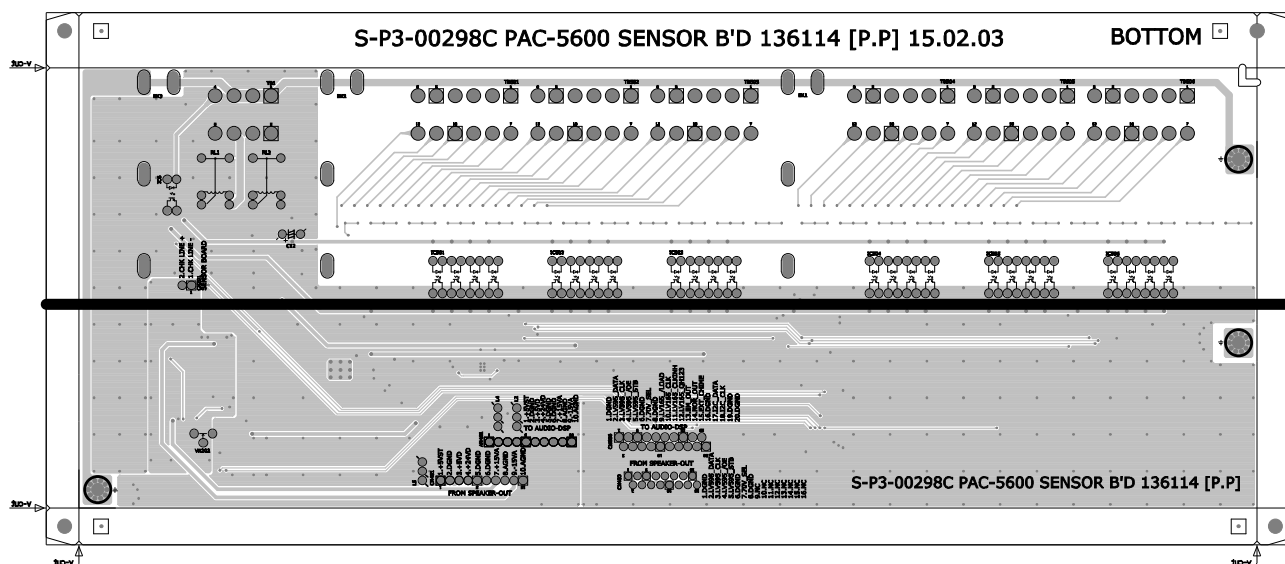
[illegible]

- SENSOR - TOP

[illegible]

TOP & BOTTOM VIEW OF P.C BOARD

- SENSOR - BOTTOM



GERBER NAME	Silkscreen Bottom
WORK	PAC-5600
#P	SENSOR
TYPE NO	136114
STEP	P.P
Rev.NO	
SIZE	140 X 145
ARRAY	1Pair 1Place
KIND	PC-4
THICKNESS	1.5 T
LAYER	2LAYER
COPPER	1 OZ
PLATING	Pc-Free (PLUX)
DATE	2015.02.03
DRAWN	Kang Hoon
YRL	02-2289-5234
E-mail	chris001@inter-m.com
PCB Maker	NALLA Electronics

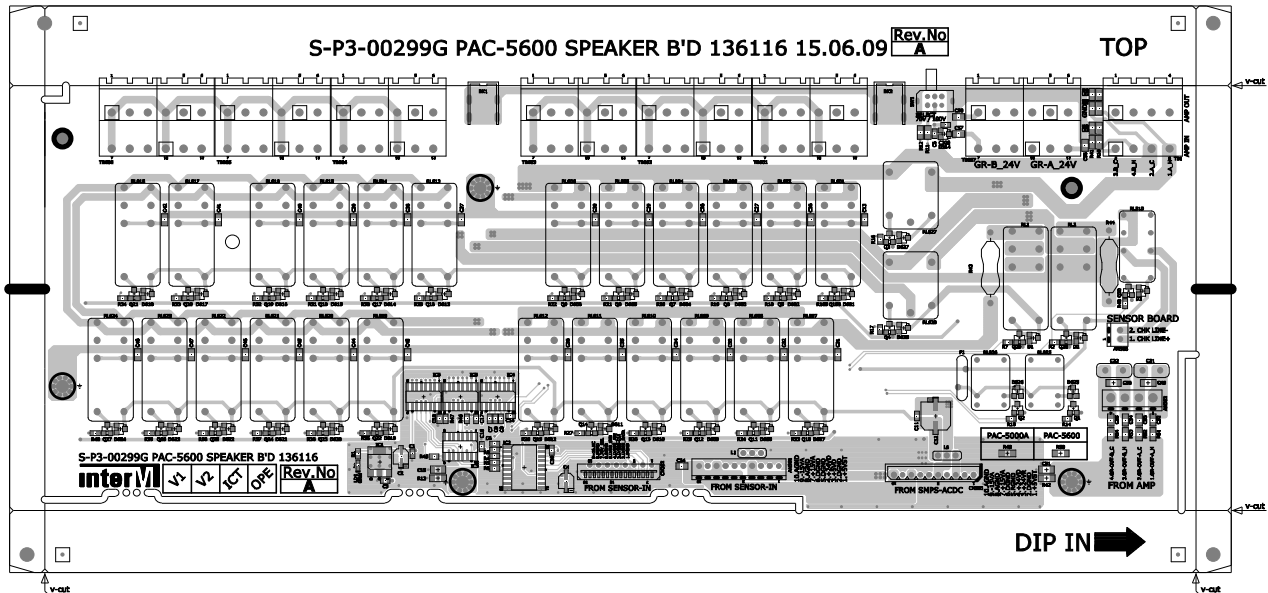
interM
http://www.inter-m.com/

REVISION HISTORY

NO	E.S	DATE	2014.05.27	Kang Hoon
NO	E.S2	DATE	2014.07.01	Kang Hoon
NO	E.S3	DATE	2014.12.09	Kang Hoon
NO	P.P	DATE	2015.02.03	Kang Hoon
NO	-	DATE	-	-
NO	-	DATE	-	-
NO	-	DATE	-	-
NO	-	DATE	-	-
NO	-	DATE	-	-

TOP & BOTTOM VIEW OF P.C BOARD

- SPEAKER - TOP



COMPONENT	DESCRIPTION	Rev.No
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interM

http://www.interm.com

REVISION HISTORY

NO. 1.0 DATE 2015.05.15

NO. 1.1 DATE 2015.05.17

NO. 1.2 DATE 2015.05.18

NO. 1.3 DATE 2015.05.19

NO. 1.4 DATE 2015.05.20

NO. 1.5 DATE 2015.05.21

NO. 1.6 DATE 2015.05.22

NO. 1.7 DATE 2015.05.23

NO. 1.8 DATE 2015.05.24

NO. 1.9 DATE 2015.05.25

NO. 1.10 DATE 2015.05.26

NO. 1.11 DATE 2015.05.27

NO. 1.12 DATE 2015.05.28

NO. 1.13 DATE 2015.05.29

NO. 1.14 DATE 2015.05.30

NO. 1.15 DATE 2015.05.31

NO. 1.16 DATE 2015.06.01

NO. 1.17 DATE 2015.06.02

NO. 1.18 DATE 2015.06.03

NO. 1.19 DATE 2015.06.04

NO. 1.20 DATE 2015.06.05

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NO. 1.22 DATE 2015.06.07

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NO. 1.24 DATE 2015.06.09

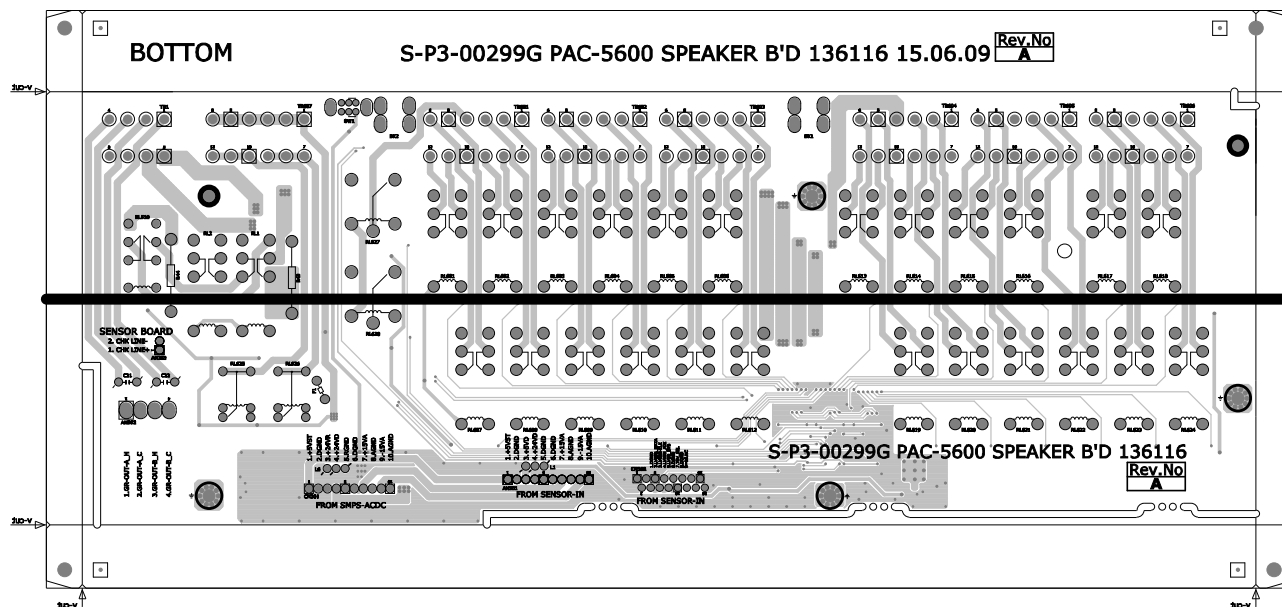
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NO. 1.26 DATE 2015.06.11

NO. 1.27 DATE 2015.06.12

TOP & BOTTOM VIEW OF P.C BOARD

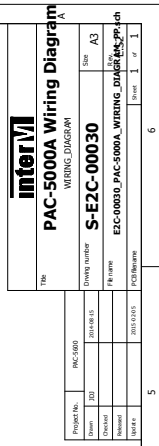
- SPEAKER - BOTTOM



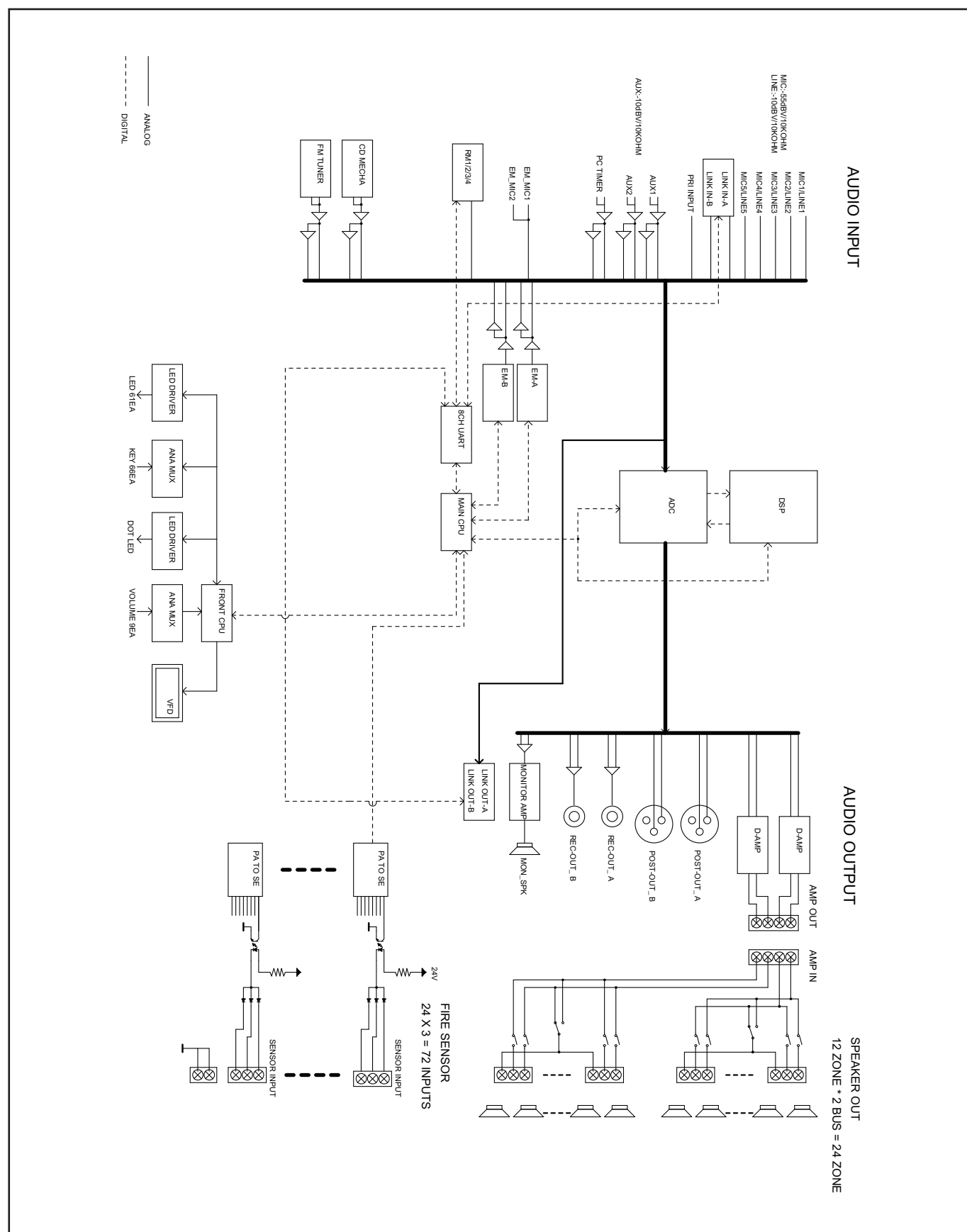
GERBER NAME	Silkscreen Bottom
MODEL	PAC-5600
B'D	SPEAKER
ITEM NO	136116
STEP	P.P
Rev.No	A
SIZE	545 X 140
AMOUNT	1Pcs
MFG	PCB
THICKNESS	1.6 T
LAYER	2 LAYERS
COPPER	2 OZ
PLATING	PC-FREE (FLUX)
DATE	2015.06.09
DRAWN	Kang Hoon
YTD	02-2385-4234
E-mail	deris001@inter-m.com
PCB Maker	HALLA Electronics

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

REVISION HISTORY			
NO	E.S	DATE	2014.01.25 Kang Hoon
NO	E.S2	DATE	2014.04.17 Kang Hoon
NO	E.S3	DATE	2014.12.09 Kang Hoon
NO	P.P	DATE	2015.02.03 Kang Hoon
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NO	Rev.A	DATE	2015.06.09
NO	-	DATE	-
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NO	-	DATE	-



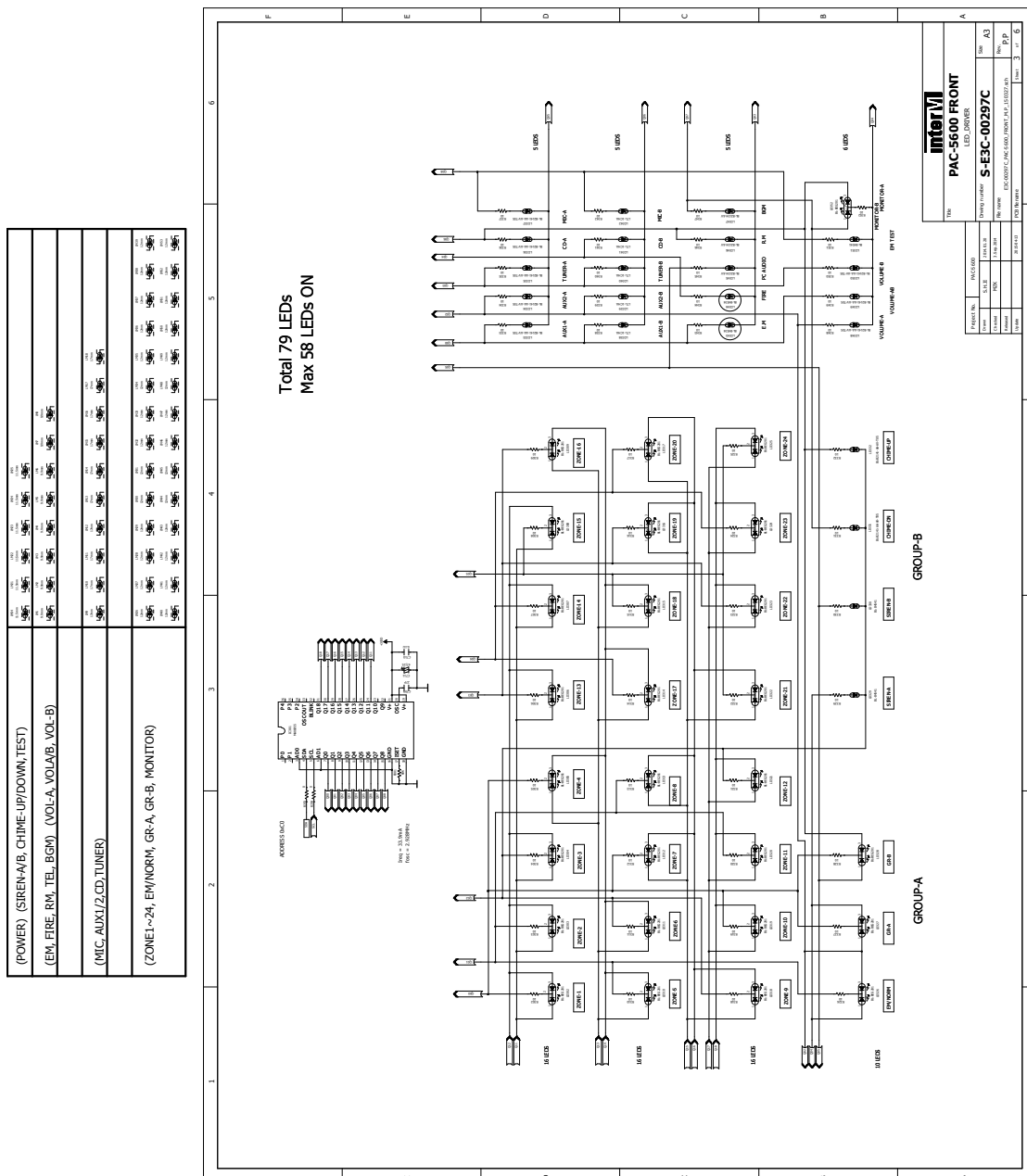
BLOCK DIAGRAM



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SCHEMATIC DIAGRAM

- FRONT

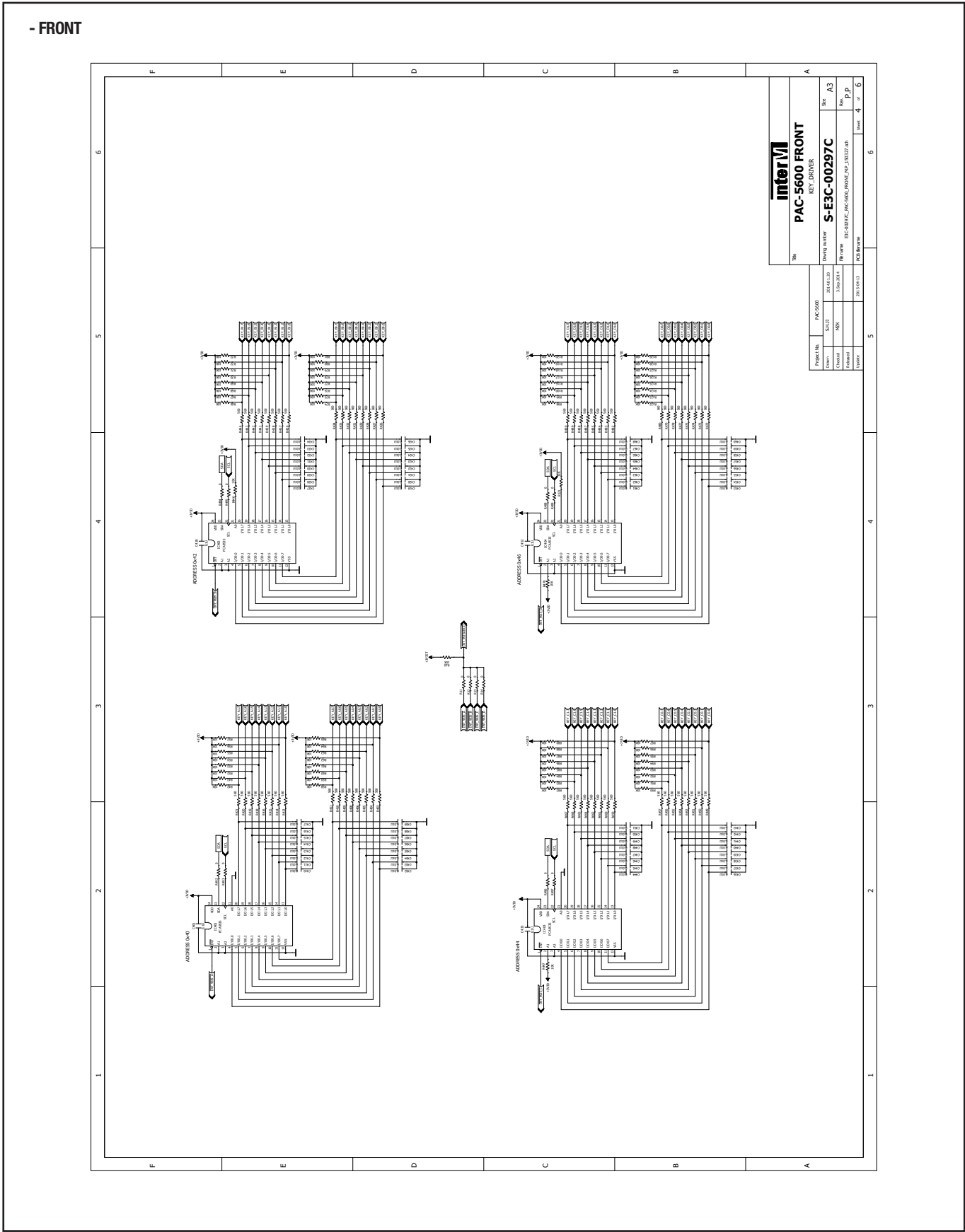


SCHEMATIC DIAGRAM

- FRONT

The diagram illustrates the front panel of the PAC-5600 FRONT KEY DRIVER. It features four identical driver units, each labeled with an address: ADDRESS 0x40, ADDRESS 0x42, ADDRESS 0x44, and ADDRESS 0x46. Each unit is connected to a 12V supply and a 100k resistor. The units are connected to a 25-pin connector with pins 1-25. The diagram is labeled with coordinates 1-6 and A-F.

PAC-5600 FRONT KEY DRIVER	
Device	154.11
Version	1.0
File name	DEC-00297C_PAC-5600_FRONT_KEY_DRIVER_154.11.dwg
Project	154.11
Sheet	1 of 1



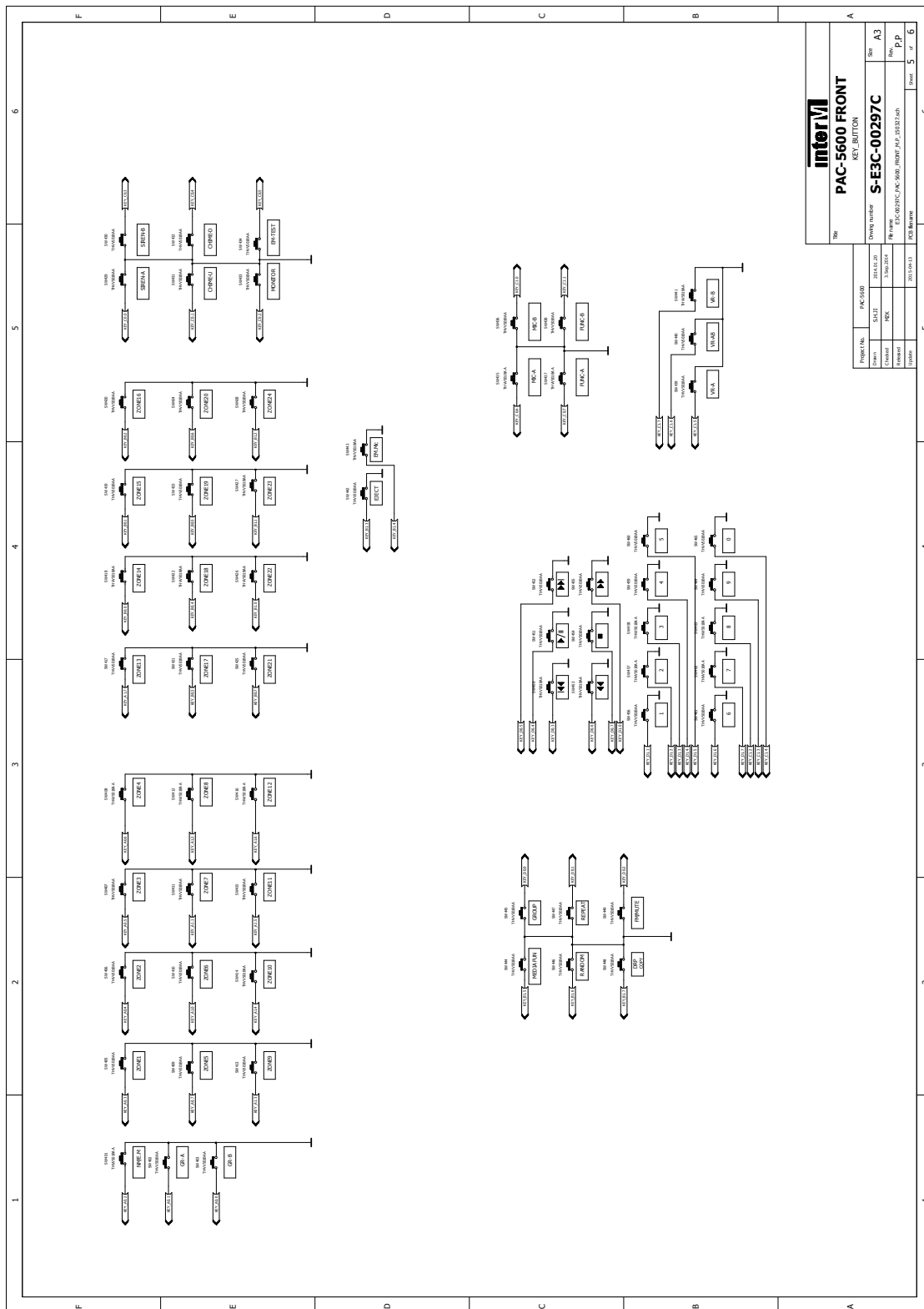
- FRONT

The diagram illustrates the front panel circuitry for the PAC-5600 FRONT KEY DRIVER. It features four identical driver circuits, each labeled with an address (ADDRESS 0x40, ADDRESS 0x42, ADDRESS 0x44, and ADDRESS 0x46). Each circuit is connected to a common 5V supply and ground. The circuit components include a 10k pull-up resistor, a 100k resistor, and a 100nF capacitor. The output of each driver is connected to a 100k resistor and a 100nF capacitor. The diagram is divided into four sections (1, 2, 3, 4) corresponding to the four driver circuits. A central 5V supply and ground connection are shown. The diagram is labeled 'interM' and 'PAC-5600 FRONT KEY DRIVER'.

PAC-5600 FRONT KEY DRIVER	
Device	100-001-20
Version	1.0
File name	DEC-00297C_PAC-5600_FRONT_KEY_DRIVER.dwg
Project	100-001-20
Sheet	4 of 6

SCHEMATIC DIAGRAM

- FRONT

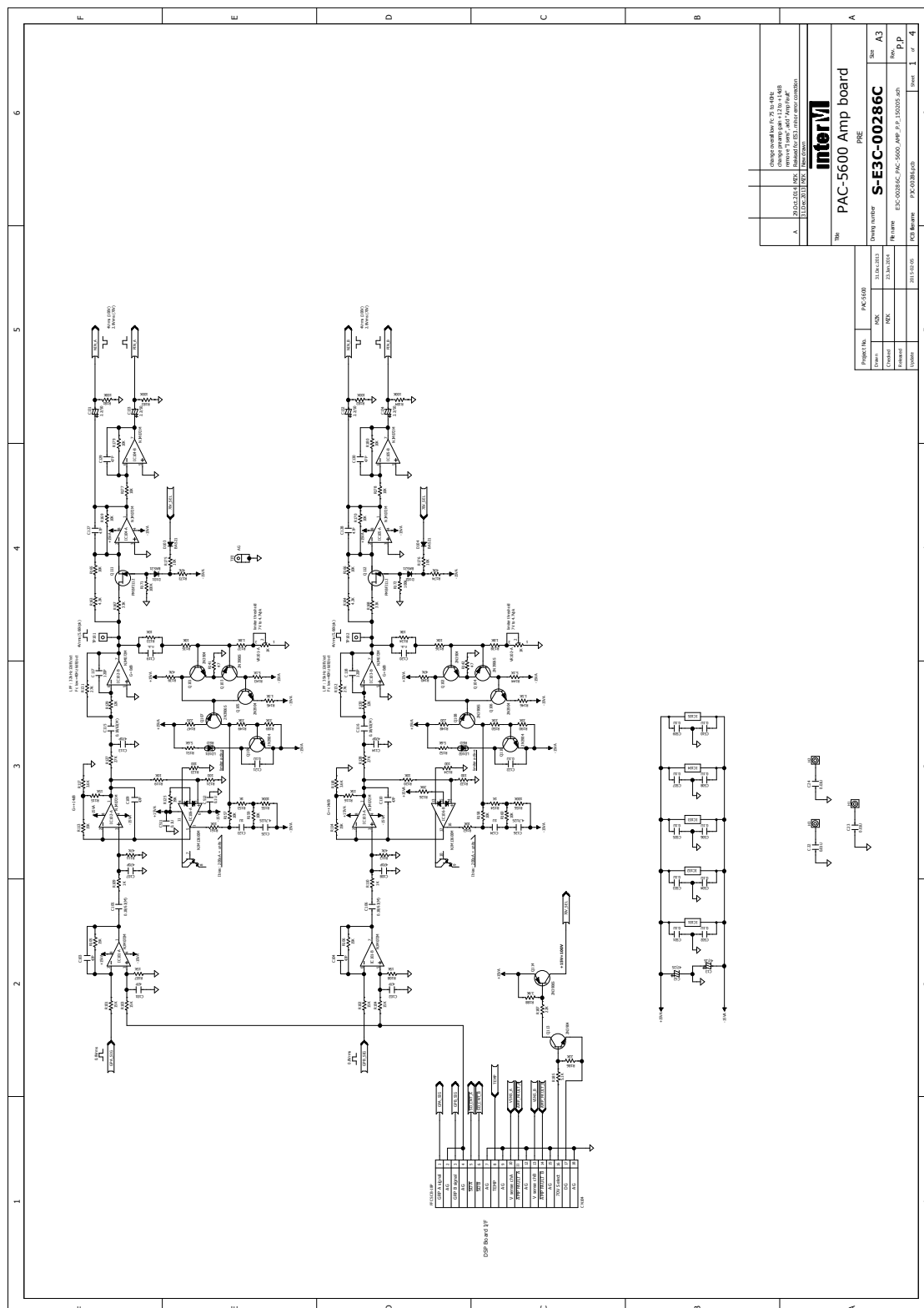


LED 5*7 DOT MATRIX MODULE DISPLAY



SCHEMATIC DIAGRAM

- AMP

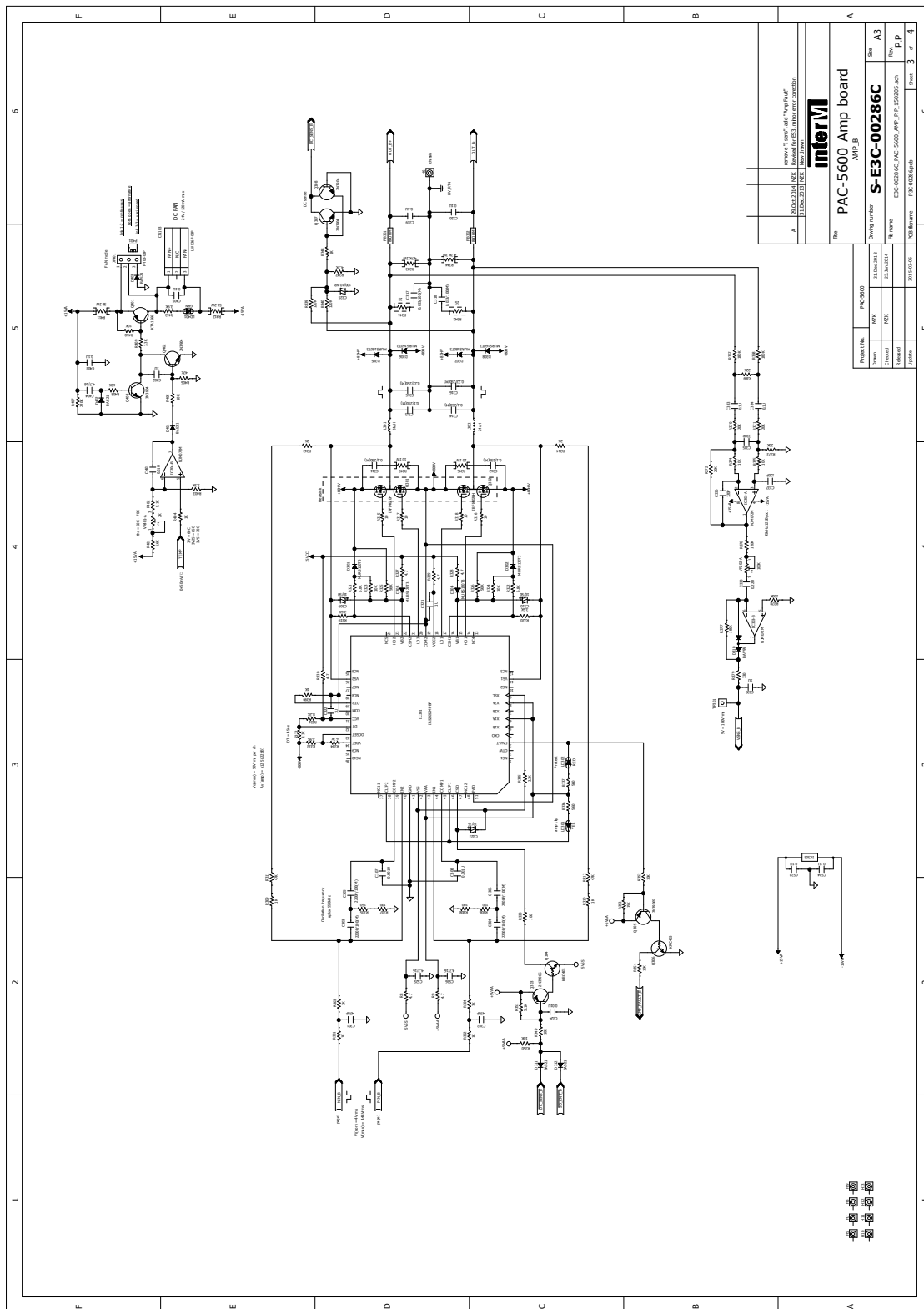


Changes to standard board: 75 to 40Hz Change processing gain: 12 dB to 14dB Change input impedance: 100K to 100K Relaxed for ESD: better error condition		Part No. 100-000000	
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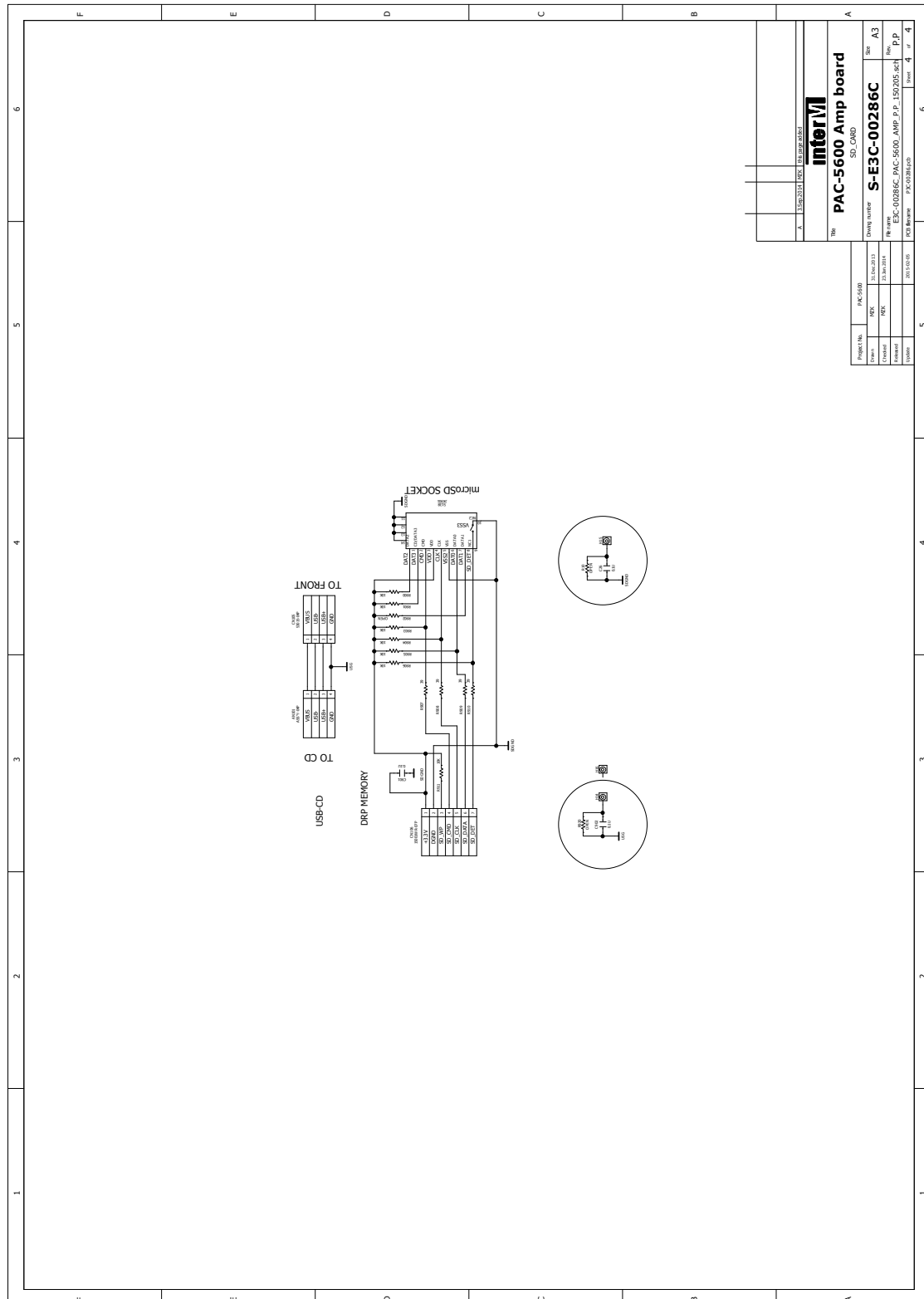
SCHEMATIC DIAGRAM

- AMP



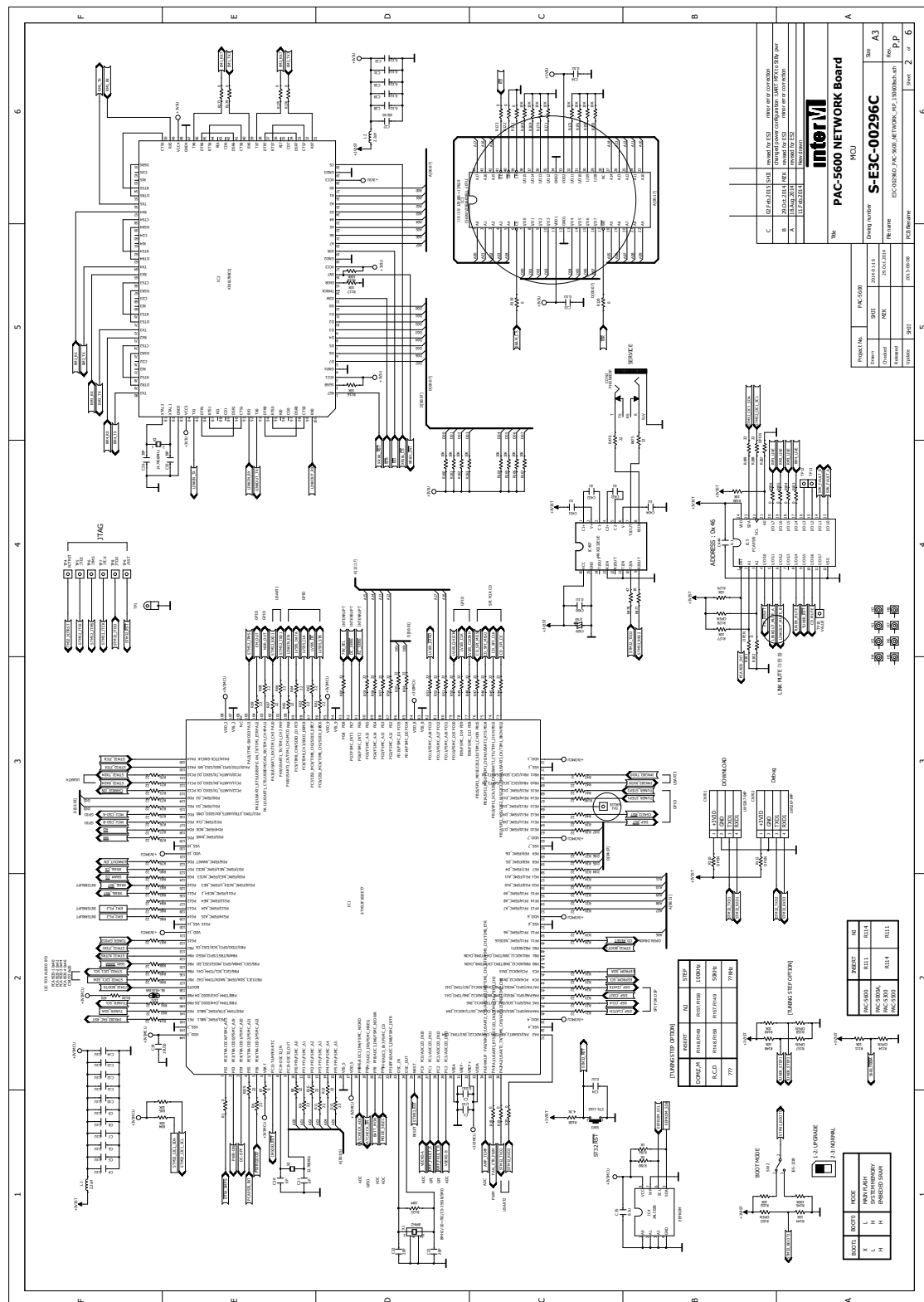
SCHEMATIC DIAGRAM

- AMP



SCHEMATIC DIAGRAM

- NETWORK



1 2 3 4 5 6

F E D C B A

RM1 RM2 RM3 RM4

LINK_IN

LINK_OUT

interM

PAC-5600 NETWORK BOARD

RM/Link

Project No. PAC-5600

Drawn by A3

Checked by S-E3C-00296C

Rev. 1

Rev. 2

Rev. 3

Rev. 4

Rev. 5

Rev. 6

Rev. 7

Rev. 8

Rev. 9

Rev. 10

Rev. 11

Rev. 12

Rev. 13

Rev. 14

Rev. 15

Rev. 16

Rev. 17

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Rev. 369

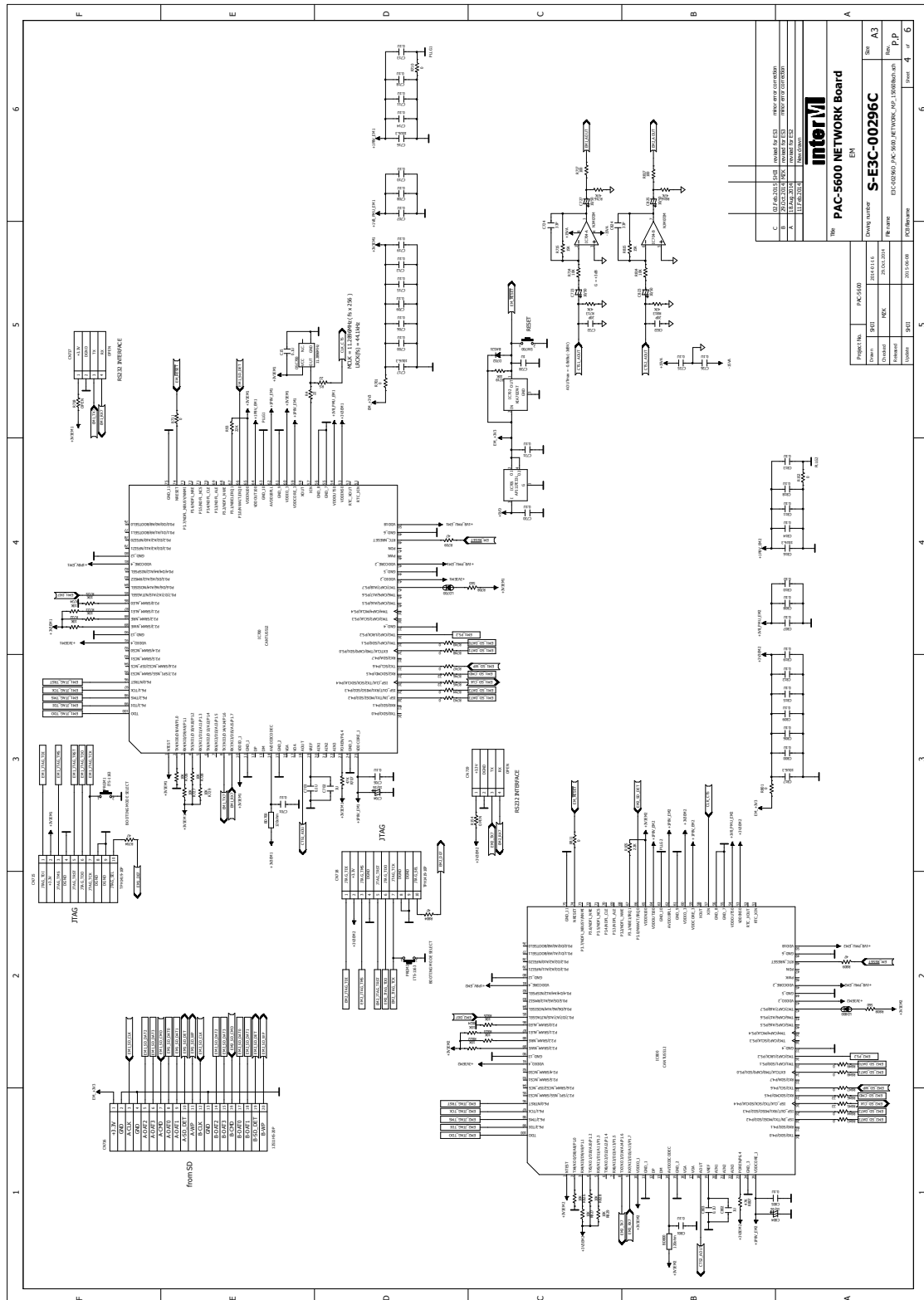
Rev. 370

Rev. 371

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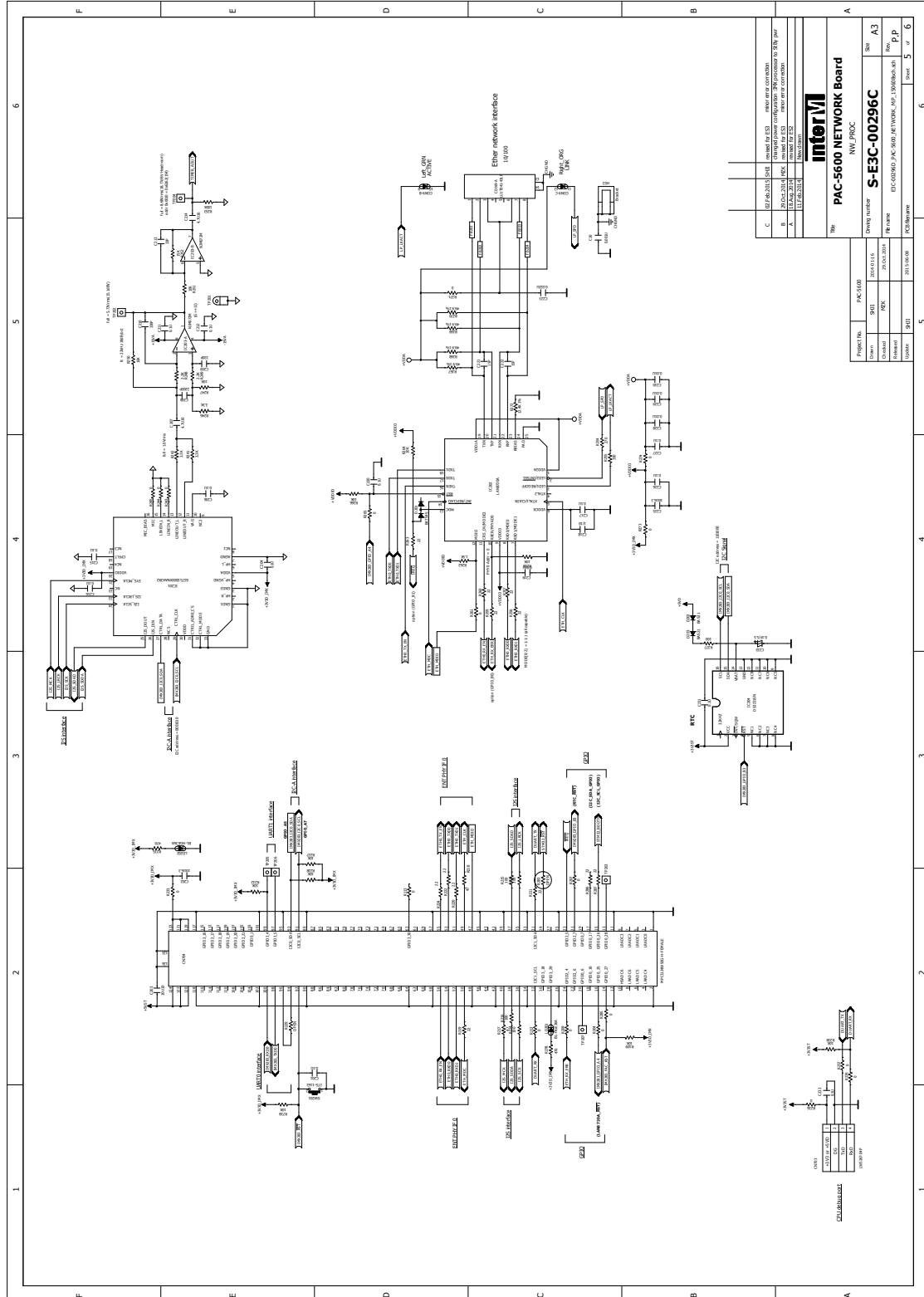
SCHEMATIC DIAGRAM

- NETWORK



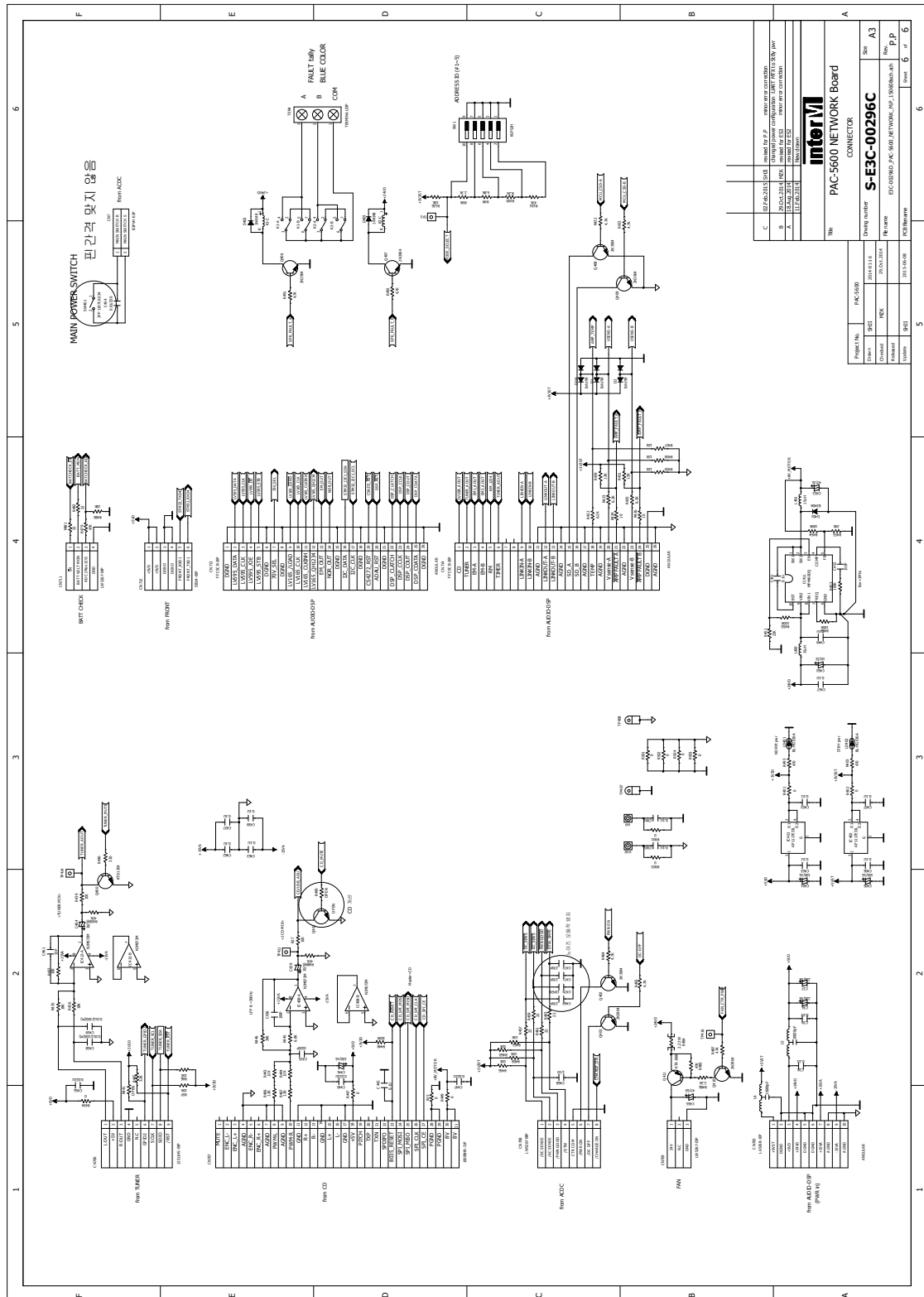
SCHEMATIC DIAGRAM

- NETWORK



SCHEMATIC DIAGRAM

- NETWORK



Module 1: INPUT (0.000V) - (5.000V/10.00V) - (3.000V/6.00V)

Module 2: INPUT (0.000V) - (5.000V/10.00V) - (3.000V/6.00V)

Module 3: INPUT (0.000V) - (5.000V/10.00V) - (3.000V/6.00V)

Module 4: INPUT (0.000V) - (5.000V/10.00V) - (3.000V/6.00V)

Module 5: INPUT (0.000V) - (5.000V/10.00V) - (3.000V/6.00V)

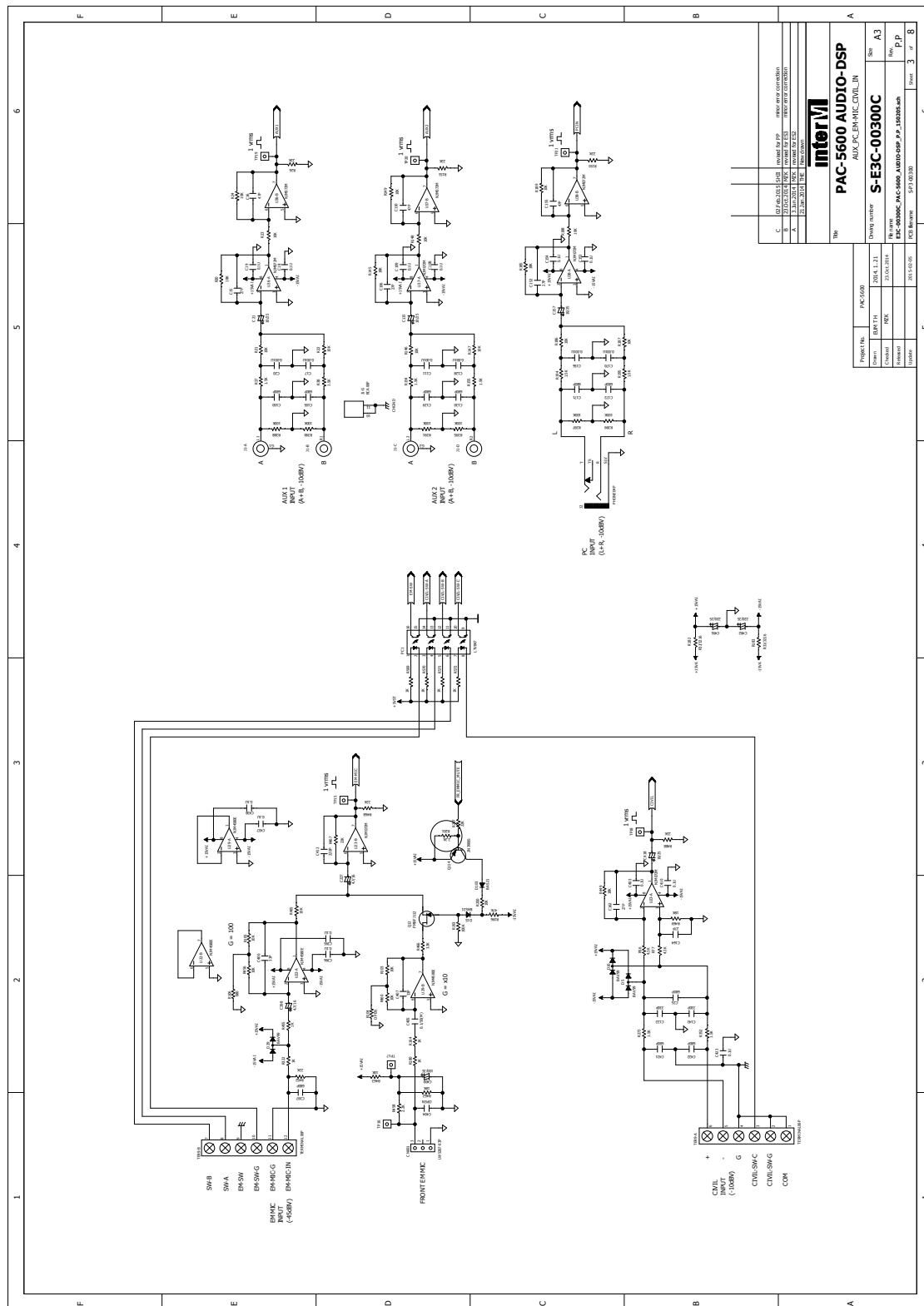
Power Supply: +5V, +12V, -12V

Component List:

Ref	Value	Part	Notes
1	10K	RES	10K
2	10K	RES	10K
3	10K	RES	10K
4	10K	RES	10K
5	10K	RES	10K
6	10K	RES	10K
7	10K	RES	10K
8	10K	RES	10K
9	10K	RES	10K
10	10K	RES	10K
11	10K	RES	10K
12	10K	RES	10K
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87	10K	RES	10K
88	10K	RES	10K
89	10K	RES	10K
90	10K	RES	10K
91	10K	RES	10K

SCHEMATIC DIAGRAM

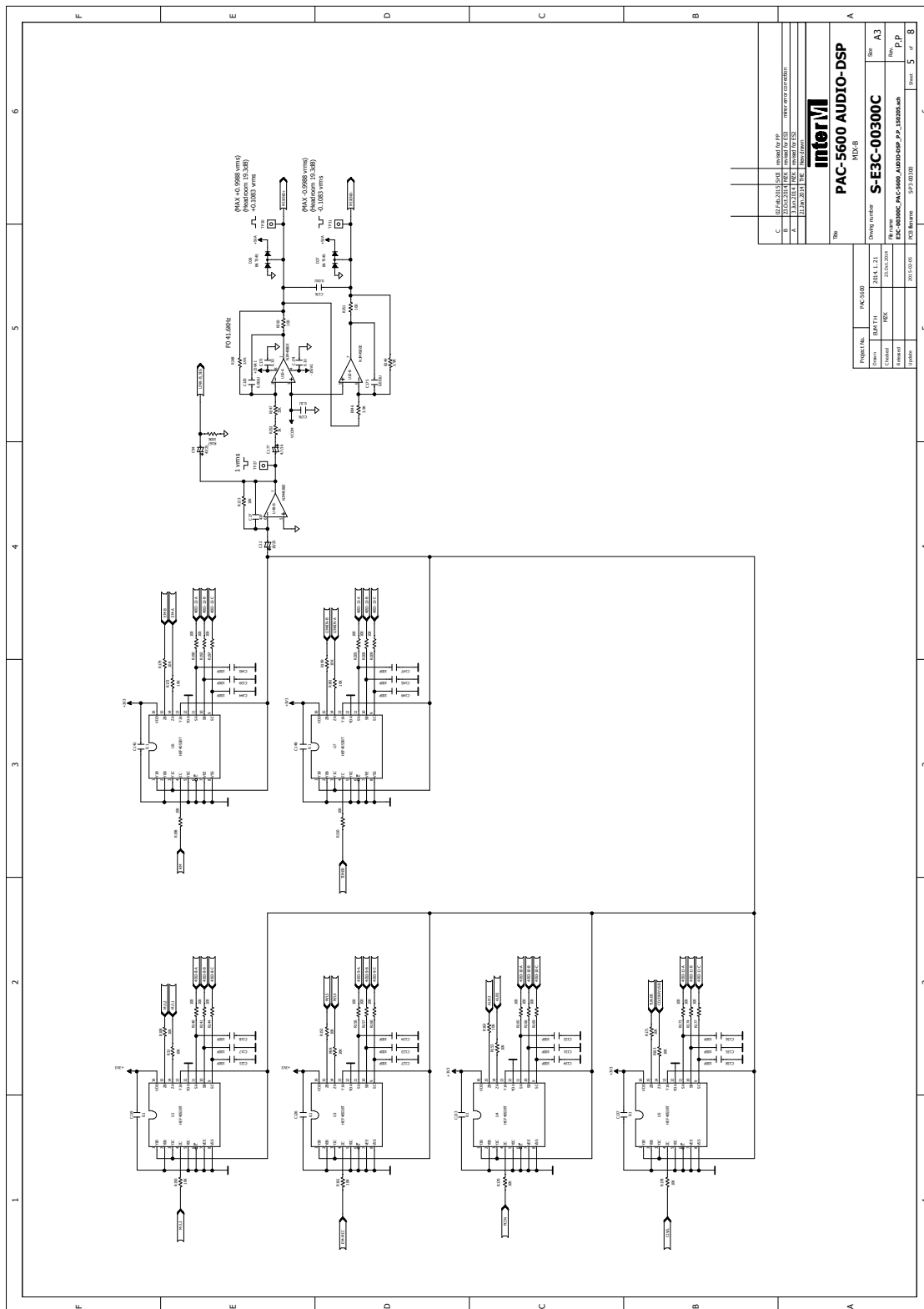
- AUDIO-DSP



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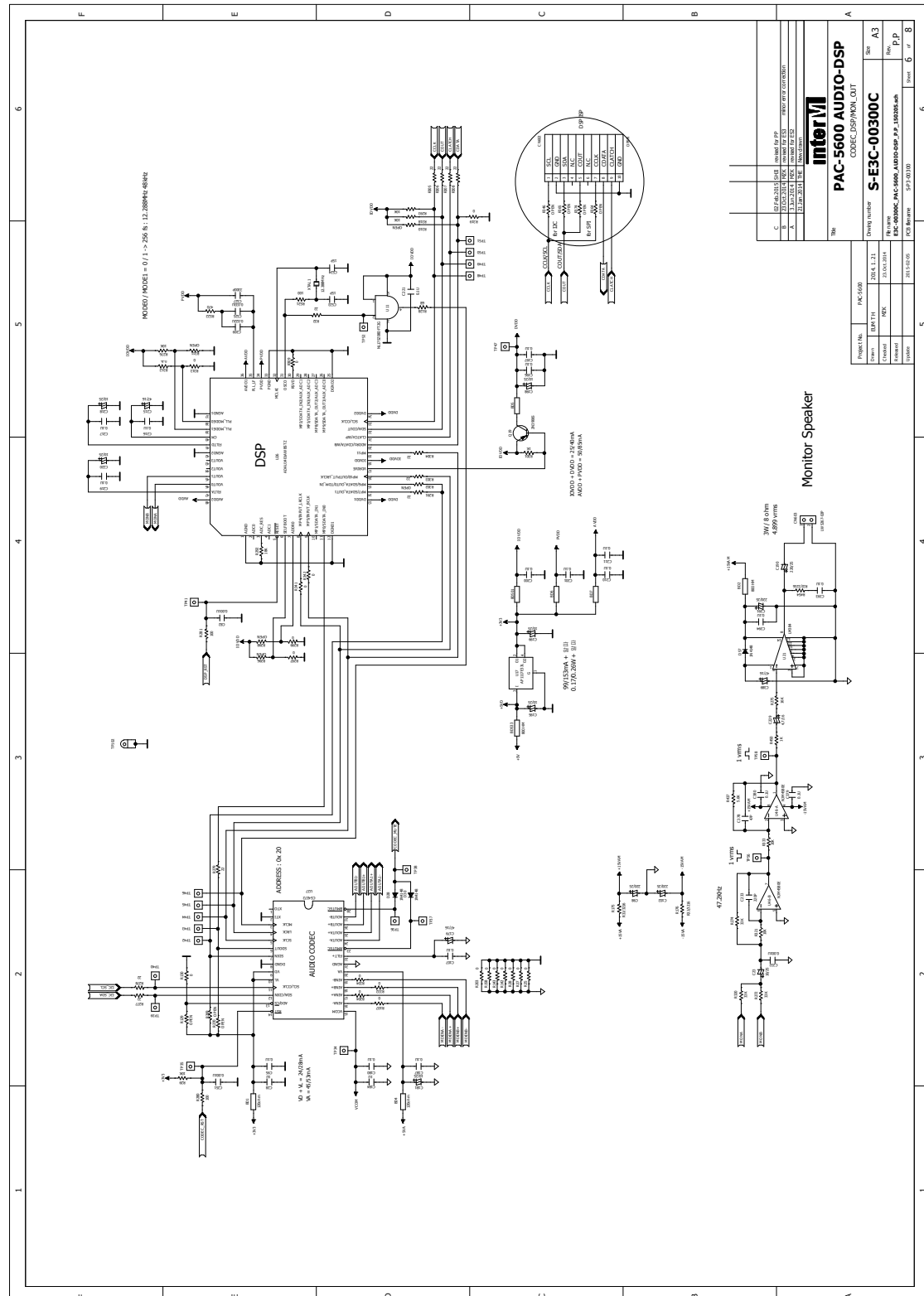
SCHEMATIC DIAGRAM

- AUDIO-DSP



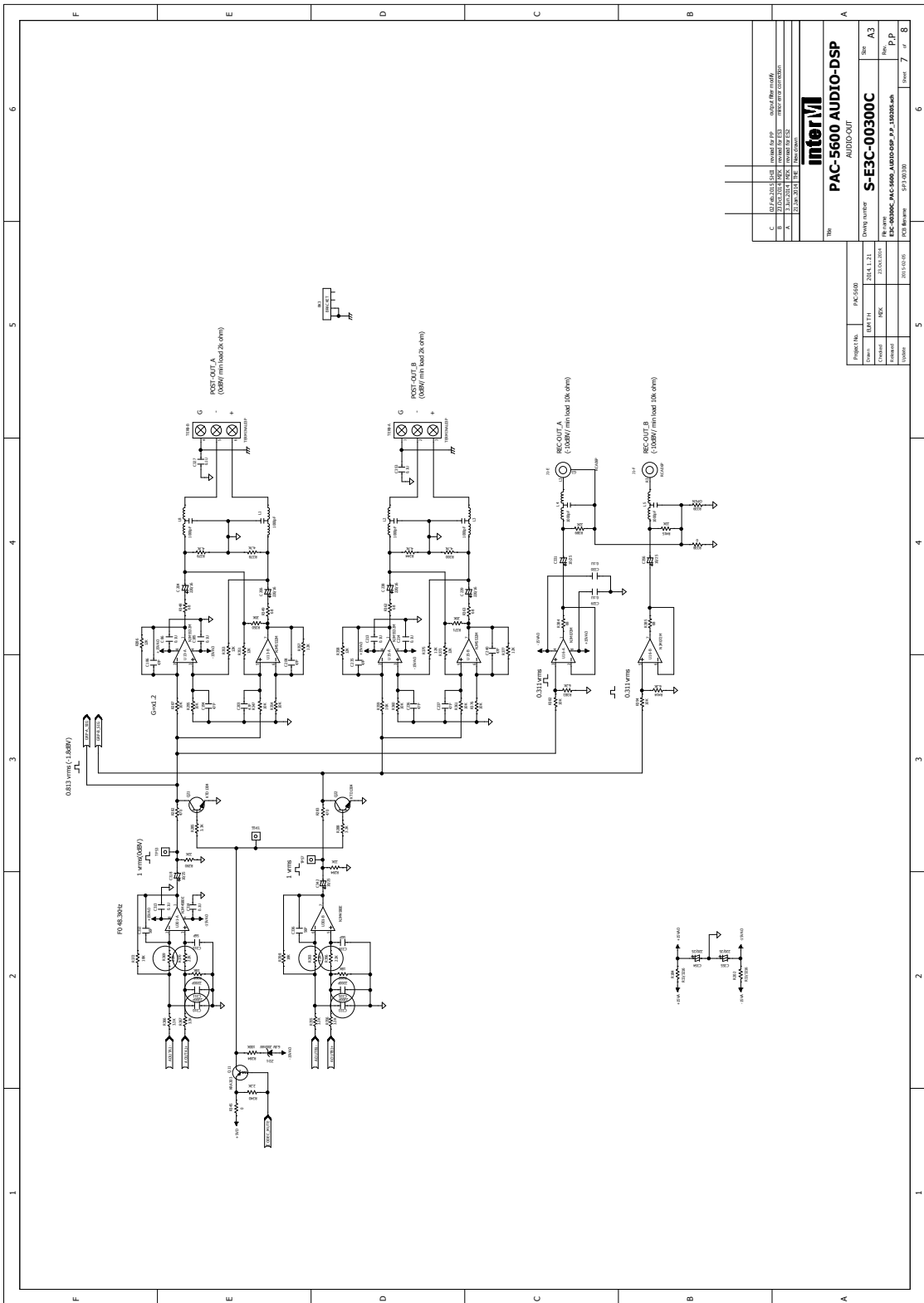
SCHEMATIC DIAGRAM

- AUDIO-DSP



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- AUDIO-DSP



The diagram illustrates the internal wiring of the PAC-5600 AUDIO-DSP connector. It features three main input sections: 'from SENSOR IN IFD', 'from NETWORK IFD', and 'to AMP IFD'. Each section contains a multi-pin connector with various signal lines (e.g., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100). The connections are made to various components including resistors, capacitors, and integrated circuits (ICs) such as the 74VHC00, 74VHC04, 74VHC125, 74VHC14, 74VHC153, 74VHC161, 74VHC162, 74VHC163, 74VHC164, 74VHC165, 74VHC166, 74VHC167, 74VHC168, 74VHC169, 74VHC170, 74VHC171, 74VHC172, 74VHC173, 74VHC174, 74VHC175, 74VHC176, 74VHC177, 74VHC178, 74VHC179, 74VHC180, 74VHC181, 74VHC182, 74VHC183, 74VHC184, 74VHC185, 74VHC186, 74VHC187, 74VHC188, 74VHC189, 74VHC190, 74VHC191, 74VHC192, 74VHC193, 74VHC194, 74VHC195, 74VHC196, 74VHC197, 74VHC198, 74VHC199, 74VHC200, 74VHC201, 74VHC202, 74VHC203, 74VHC204, 74VHC205, 74VHC206, 74VHC207, 74VHC208, 74VHC209, 74VHC210, 74VHC211, 74VHC212, 74VHC213, 74VHC214, 74VHC215, 74VHC216, 74VHC217, 74VHC218, 74VHC219, 74VHC220, 74VHC221, 74VHC222, 74VHC223, 74VHC224, 74VHC225, 74VHC226, 74VHC227, 74VHC228, 74VHC229, 74VHC230, 74VHC231, 74VHC232, 74VHC233, 74VHC234, 74VHC235, 74VHC236, 74VHC237, 74VHC238, 74VHC239, 74VHC240, 74VHC241, 74VHC242, 74VHC243, 74VHC244, 74VHC245, 74VHC246, 74VHC247, 74VHC248, 74VHC249, 74VHC250, 74VHC251, 74VHC252, 74VHC253, 74VHC254, 74VHC255, 74VHC256, 74VHC257, 74VHC258, 74VHC259, 74VHC260, 74VHC261, 74VHC262, 74VHC263, 74VHC264, 74VHC265, 74VHC266, 74VHC267, 74VHC268, 74VHC269, 74VHC270, 74VHC271, 74VHC272, 74VHC273, 74VHC274, 74VHC275, 74VHC276, 74VHC277, 74VHC278, 74VHC279, 74VHC280, 74VHC281, 74VHC282, 74VHC283, 74VHC284, 74VHC285, 74VHC286, 74VHC287, 74VHC288, 74VHC289, 74VHC290, 74VHC291, 74VHC292, 74VHC293, 74VHC294, 74VHC295, 74VHC296, 74VHC297, 74VHC298, 74VHC299, 74VHC300, 74VHC301, 74VHC302, 74VHC303, 74VHC304, 74VHC305, 74VHC306, 74VHC307, 74VHC308, 74VHC309, 74VHC310, 74VHC311, 74VHC312, 74VHC313, 74VHC314, 74VHC315, 74VHC316, 74VHC317, 74VHC318, 74VHC319, 74VHC320, 74VHC321, 74VHC322, 74VHC323, 74VHC324, 74VHC325, 74VHC326, 74VHC327, 74VHC328, 74VHC329, 74VHC330, 74VHC331, 74VHC332, 74VHC333, 74VHC334, 74VHC335, 74VHC336, 74VHC337, 74VHC338, 74VHC339, 74VHC340, 74VHC341, 74VHC342, 74VHC343, 74VHC344, 74VHC345, 74VHC346, 74VHC347, 74VHC348, 74VHC349, 74VHC350, 74VHC351, 74VHC352, 74VHC353, 74VHC354, 74VHC355, 74VHC356, 74VHC357, 74VHC358, 74VHC359, 74VHC360, 74VHC361, 74VHC362, 74VHC363, 74VHC364, 74VHC365, 74VHC366, 74VHC367, 74VHC368, 74VHC369, 74VHC370, 74VHC371, 74VHC372, 74VHC373, 74VHC374, 74VHC375, 74VHC376, 74VHC377, 74VHC378, 74VHC379, 74VHC380, 74VHC381, 74VHC382, 74VHC383, 74VHC384, 74VHC385, 74VHC386, 74VHC387, 74VHC388, 74VHC389, 74VHC390, 74VHC391, 74VHC392, 74VHC393, 74VHC394, 74VHC395, 74VHC396, 74VHC397, 74VHC398, 74VHC399, 74VHC400, 74VHC401, 74VHC402, 74VHC403, 74VHC404, 74VHC405, 74VHC406, 74VHC407, 74VHC408, 74VHC409, 74VHC410, 74VHC411, 74VHC412, 74VHC413, 74VHC414, 74VHC415, 74VHC416, 74VHC417, 74VHC418, 74VHC419, 74VHC420, 74VHC421, 74VHC422, 74VHC423, 74VHC424, 74VHC425, 74VHC426, 74VHC427, 74VHC428, 74VHC429, 74VHC430, 74VHC431, 74VHC432, 74VHC433, 74VHC434, 74VHC435, 74VHC436, 74VHC437, 74VHC438, 74VHC439, 74VHC440, 74VHC441, 74VHC442, 74VHC443, 74VHC444, 74VHC445, 74VHC446, 74VHC447, 74VHC448, 74VHC449, 74VHC450, 74VHC451, 74VHC452, 74VHC453, 74VHC454, 74VHC455, 74VHC456, 74VHC457, 74VHC458, 74VHC459, 74VHC460, 74VHC461, 74VHC462, 74VHC463, 74VHC464, 74VHC465, 74VHC466, 74VHC467, 74VHC468, 74VHC469, 74VHC470, 74VHC471, 74VHC472, 74VHC473, 74VHC474, 74VHC475, 74VHC476, 74VHC477, 74VHC478, 74VHC479, 74VHC480, 74VHC481, 74VHC482, 74VHC483, 74VHC484, 74VHC485, 74VHC486, 74VHC487, 74VHC488, 74VHC489, 74VHC490, 74VHC491, 74VHC492, 74VHC493, 74VHC494, 74VHC495, 74VHC496, 74VHC497, 74VHC498, 74VHC499, 74VHC500, 74VHC501, 74VHC502, 74VHC503, 74VHC504, 74VHC505, 74VHC506, 74VHC507, 74VHC508, 74VHC509, 74VHC510, 74VHC511, 74VHC512, 74VHC513, 74VHC514, 74VHC515, 74VHC516, 74VHC517, 74VHC518, 74VHC519, 74VHC520, 74VHC521, 74VHC522, 74VHC523, 74VHC524, 74VHC525, 74VHC526, 74VHC527, 74VHC528, 74VHC529, 74VHC530, 74VHC531, 74VHC532, 74VHC533, 74VHC534, 74VHC535, 74VHC536, 74VHC537, 74VHC538, 74VHC539, 74VHC540, 74VHC541, 74VHC542, 74VHC543, 74VHC544, 74VHC545, 74VHC546, 74VHC547, 74VHC548, 74VHC549, 74VHC550, 74VHC551,

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[illegible]

1) Application

Flyback converter
 Input voltage = 120V to 395V DC
 Po = 7Wpk (3W ave)
 Fsw = 130kHz

2) Circuit

CORE : ETD28
 BOBINA : Vertical 8° (omit pin46)
 Lpri = 41nH

3) Stack Configuration

Project No.		PAC-5600	
Version	1.0	2.0	3.0
Author	1.0	2.0	3.0
Reviewer	1.0	2.0	3.0
Validator	1.0	2.0	3.0

Drawing number		S-E3C-00287C	
Rev		A3	
File name		E3C-00287C_PAC-5600_ACDC_P3_30708.dwg	
File name		P3_30708.dwg	

Title		PAC-5600 ACDC board	
Rev		T10B_5TBY	

Project No.		PAC-5600	
Version	1.0	2.0	3.0
Author	1.0	2.0	3.0
Reviewer	1.0	2.0	3.0
Validator	1.0	2.0	3.0

Drawing number		S-E3C-00287C	
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Rev		T10B_5TBY	

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Reviewer	1.0	2.0	3.0
Validator	1.0	2.0	3.0

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File name		P3_30708.dwg	

Title		PAC-5600 ACDC board	
Rev		T10B_5TBY	

Project No.		PAC-5600	
Version	1.0	2.0	3.0
Author	1.0	2.0	3.0
Reviewer	1.0	2.0	3.0
Validator	1.0	2.0	3.0

Drawing number		S-E3C-00287C	
Rev		A3	
File name		E3C-00287C_PAC-5600_ACDC_P3_30708.dwg	
File name		P3_30708.dwg	

Title		PAC-5600 ACDC board	
Rev		T10B_5TBY	

Project No.		PAC-5600	
Version	1.0	2.0	3.0
Author	1.0	2.0	3.0
Reviewer	1.0	2.0	3.0
Validator	1.0	2.0	3.0

Drawing number		S-E3C-00287C	
Rev		A3	
File name		E3C-00287C_PAC-5600_ACDC_P3_30708.dwg	
File name		P3_30708.dwg	

Title		PAC-5600 ACDC board	
Rev		T10B_5TBY	

Project No.		PAC-5600	
Version	1.0	2.0	3.0
Author	1.0	2.0	3.0
Reviewer	1.0	2.0	3.0
Validator	1.0	2.0	3.0

Drawing number		S-E3C-00287C	
Rev		A3	
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Title		PAC-5600 ACDC board	
Rev		T10B_5TBY	

Project No.		PAC-5600	
Version	1.0	2.0	3.0
Author	1.0	2.0	3.0
Reviewer	1.0	2.0	3.0
Validator	1.0	2.0	3.0

Drawing number		S-E3C-00287C	
Rev		A3	
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File name		P3_30708.dwg	

Title		PAC-5600 ACDC board	
Rev		T10B_5TBY	

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66

The schematic diagram illustrates the PAC5600 DCDC board, which is a DC-DC converter. The board is divided into several functional blocks:

- Power Input:** The input is a DC 24V 2.7V source, connected to a 100V 100mA fuse and a 100V 100mA fuse. The input is also connected to a 100V 100mA fuse and a 100V 100mA fuse.
- DCDC Converter:** The DCDC converter is a buck converter, consisting of a MOSFET (IRF540), a diode (1N4007), and an inductor (100μH). The output is a DC 24V 2.7V source.
- Control and Monitoring:** The board includes a microcontroller (PAC5600) and various control and monitoring components, including a 100V 100mA fuse, a 100V 100mA fuse, and a 100V 100mA fuse.
- Output:** The output is a DC 24V 2.7V source, connected to a 100V 100mA fuse and a 100V 100mA fuse.

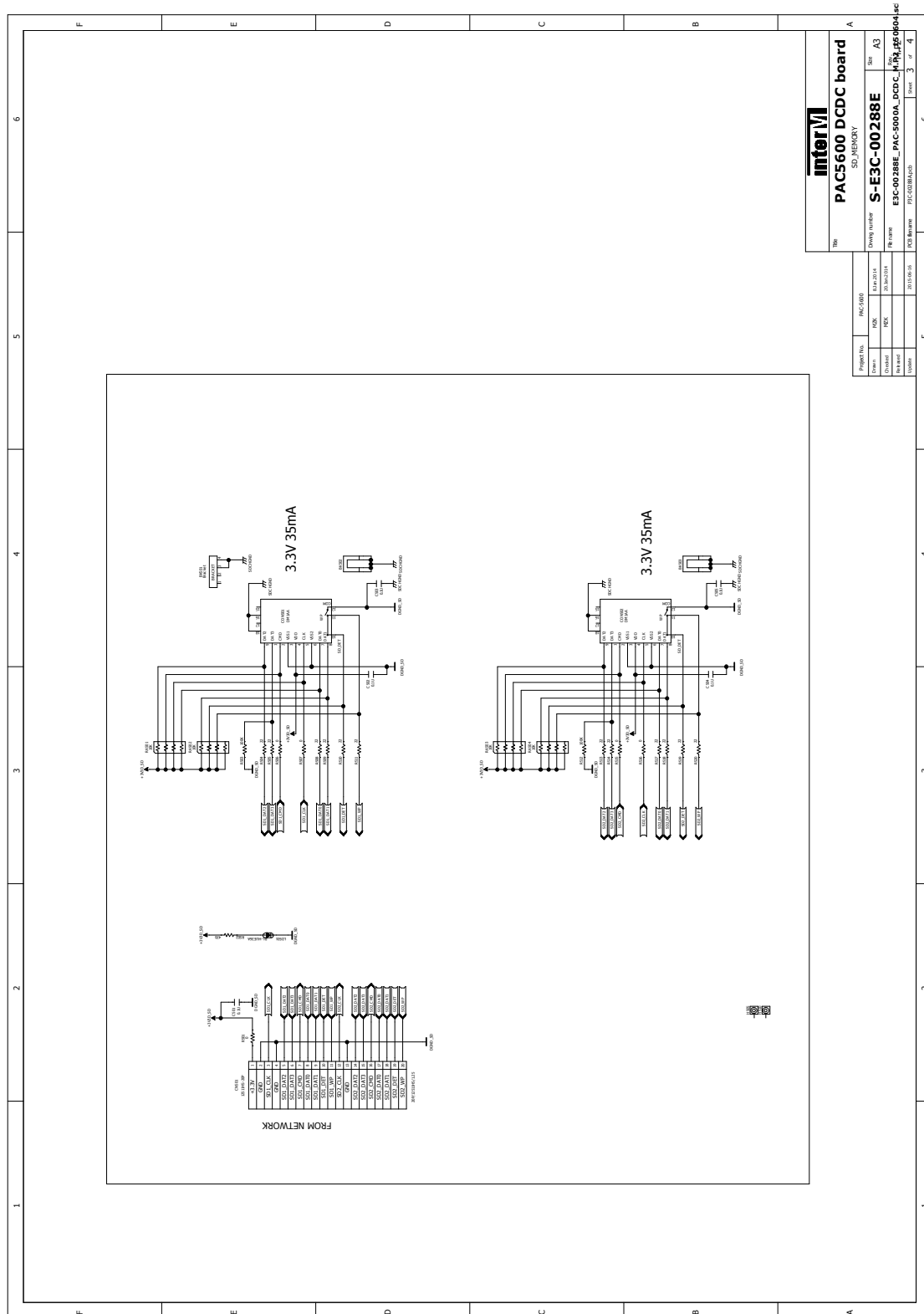
The schematic also shows the internal components of the board, including the MOSFET, diode, inductor, and various control and monitoring components. The board is designed to be a DC-DC converter, providing a DC 24V 2.7V output from a DC 24V 2.7V input.

[illegible]

Project No.		PROJ-560	Title		S-E3C-00288E		S-E3C-00288E_A3	
Design		14-01-2014	Drawing number		S-E3C-00288E_A3		S-E3C-00288E_A3	
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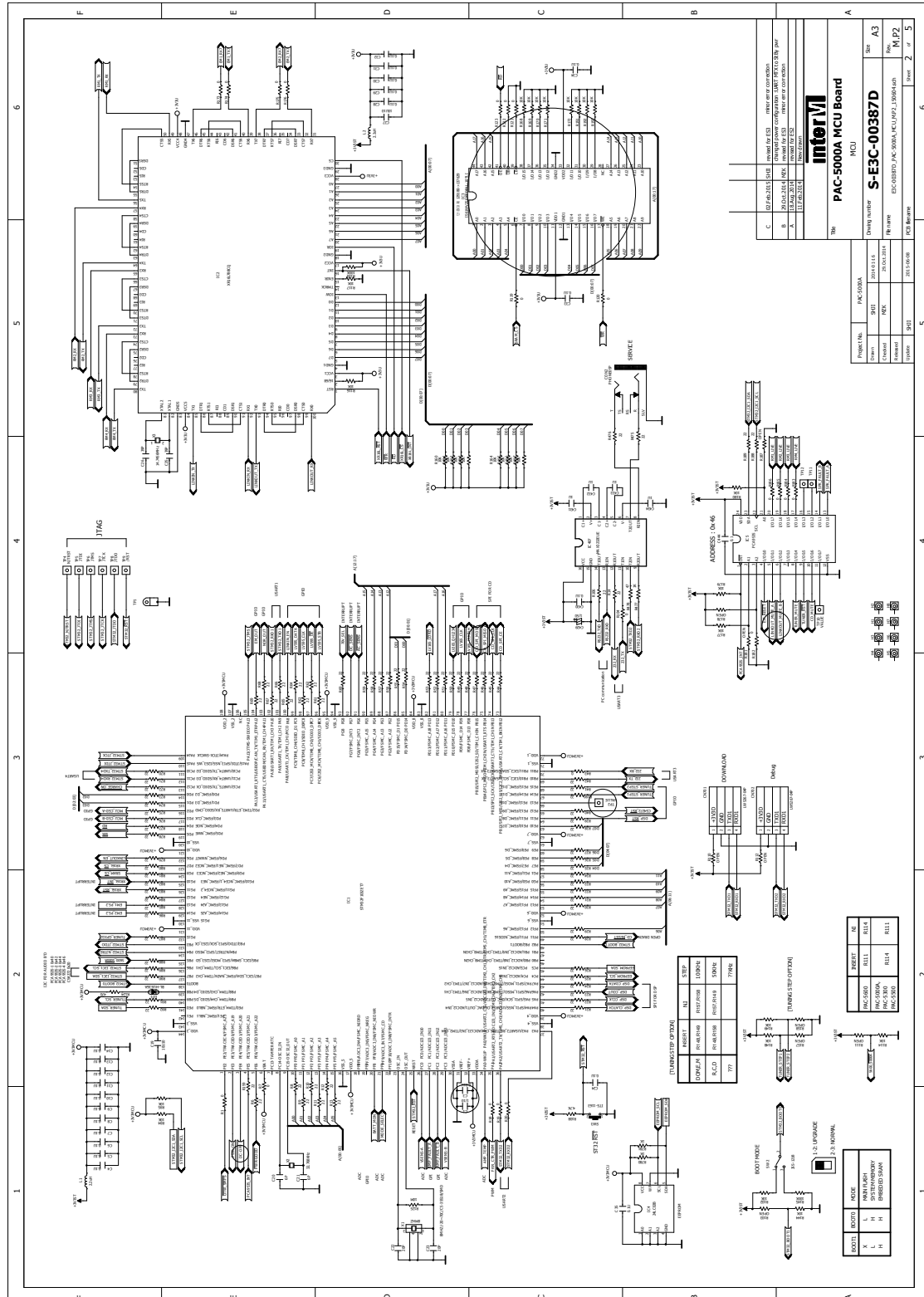
SCHEMATIC DIAGRAM

- DCDC



SCHEMATIC DIAGRAM

- MCU



70

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RM1 RM2 RM3 RM4

LINK_IN LINK_OUT

4, 7, 10배율

interM

PAC-5000A MCU Board

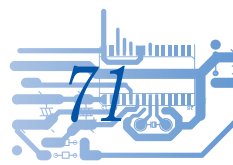
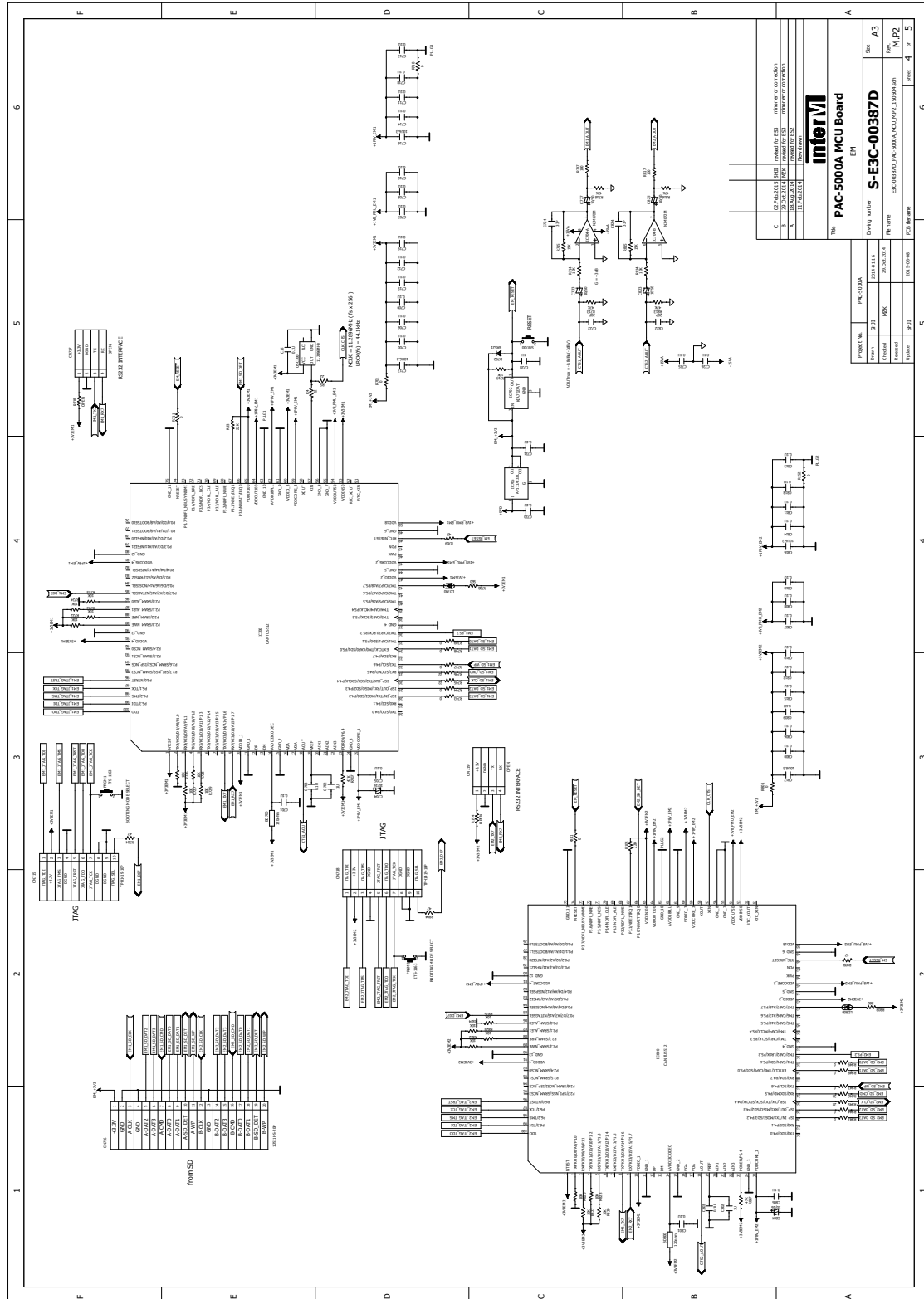
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Drawing Number S-E3C-00387D
Date 2014.11.14
Drawn NRC
Checked 2015.03.03
Rev. M P2
Rev. S-E3C-00387D PAC-5000A MCU Board
Rev. 3 of 5
PCB Revision

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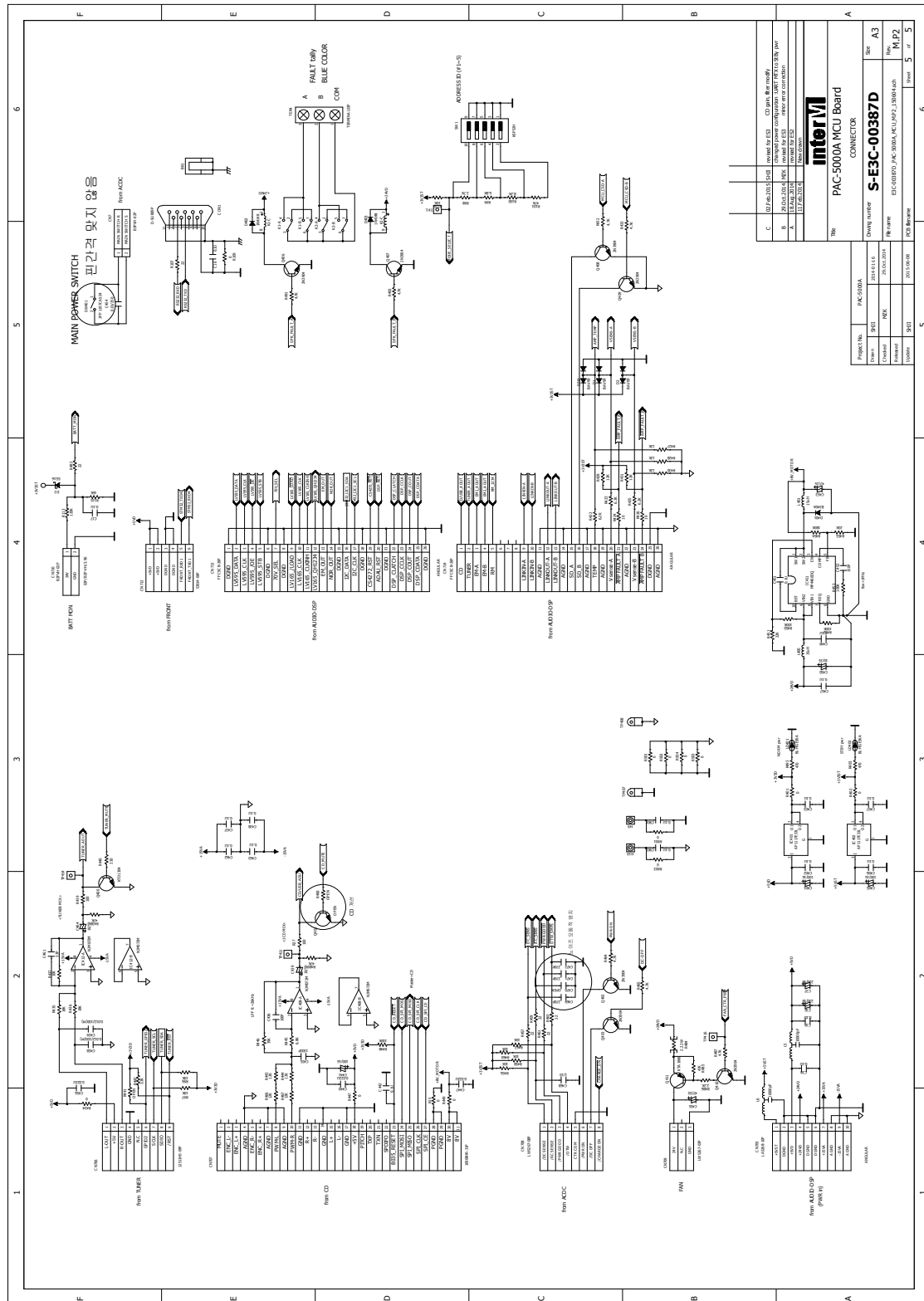
SCHEMATIC DIAGRAM

- MCU



SCHEMATIC DIAGRAM

- MCU

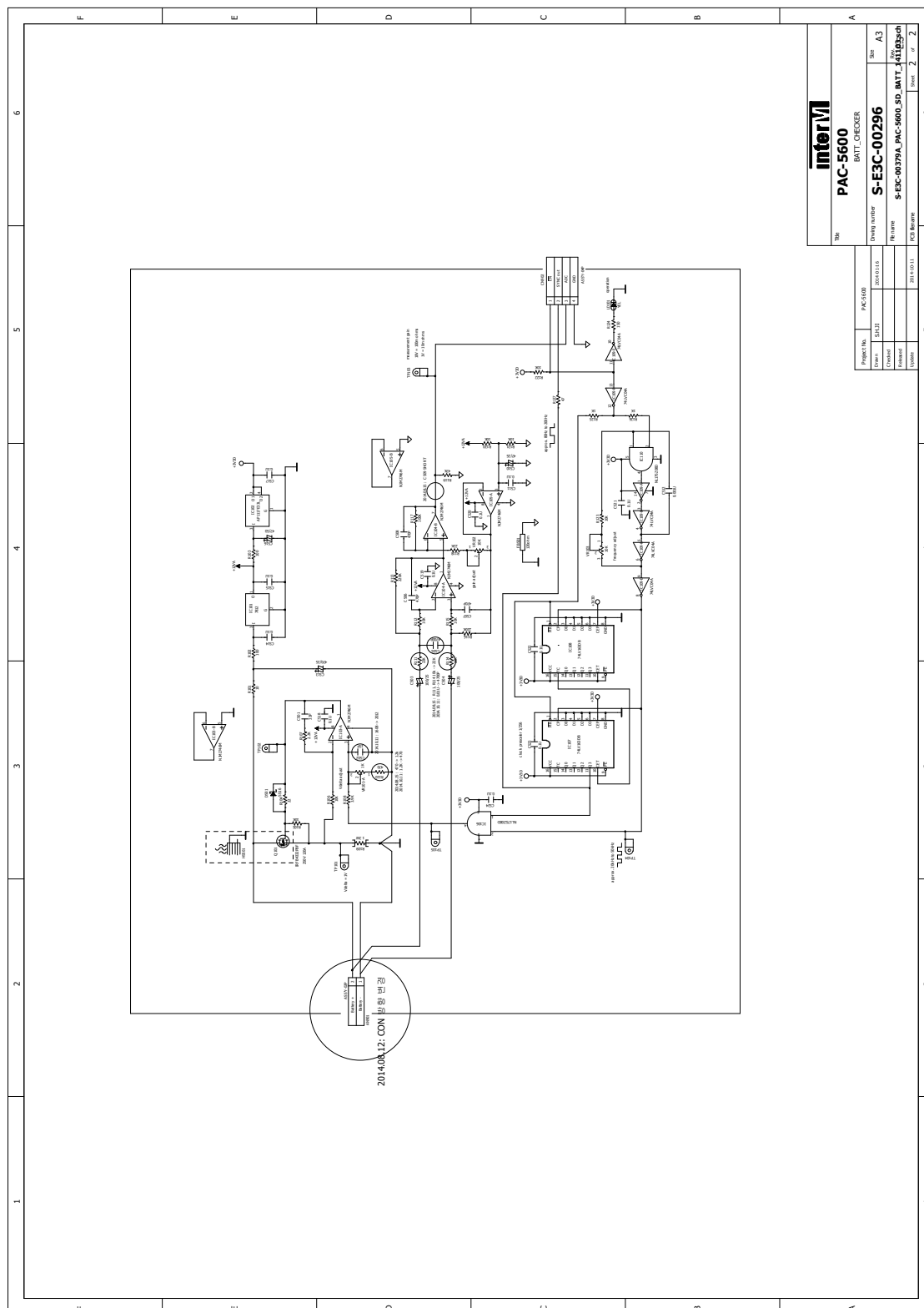


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REV. 001		REV. 001		REV. 001	
DATE: 2011.01.14		DATE: 2011.01.14		DATE: 2011.01.14	
DRAWN: J. H. KIM		DRAWN: J. H. KIM		DRAWN: J. H. KIM	
CHECKED: J. H. KIM		CHECKED: J. H. KIM		CHECKED: J. H. KIM	
APPROVED: J. H. KIM		APPROVED: J. H. KIM		APPROVED: J. H. KIM	
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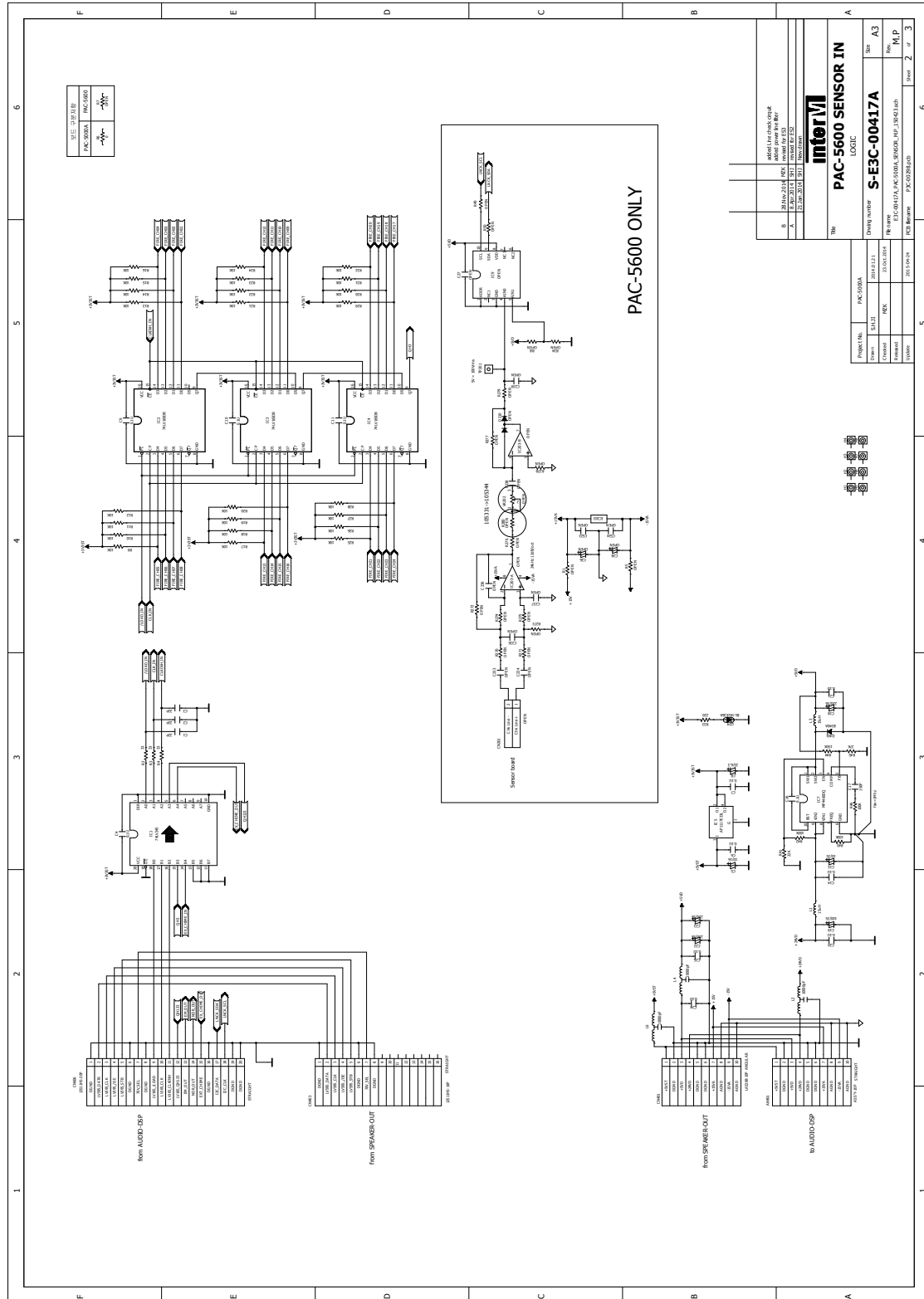
SCHEMATIC DIAGRAM

- SD/BATT-CHK



SCHEMATIC DIAGRAM

- SENSOR



76

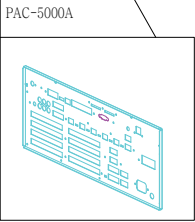
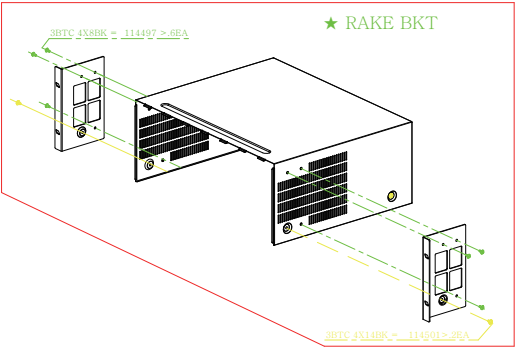
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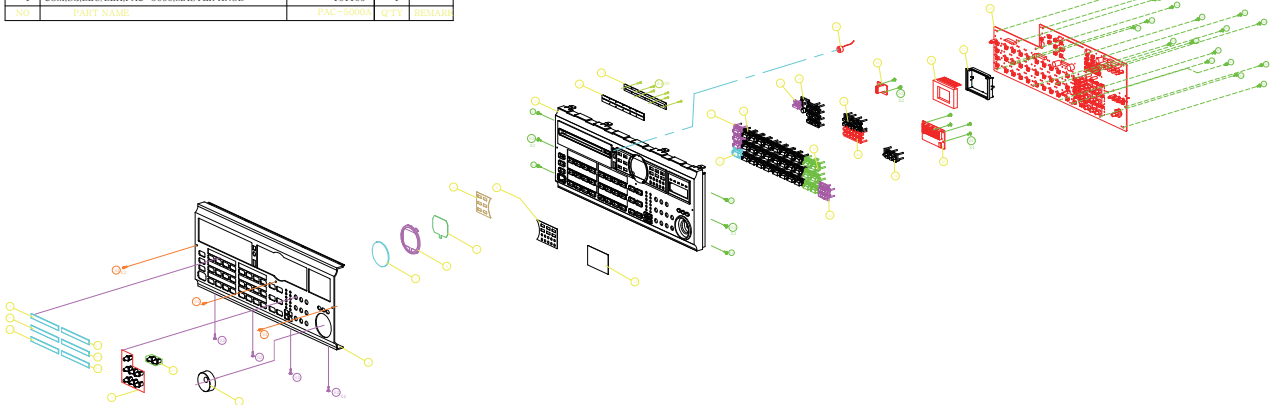
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17mA * 24 = 408mA

EXPLODED VIEW OF CABINET & CHASSIS/MECHANICAL PARTS LIST

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S11	2BTC 3X6B	114462	4	RAKE BKT
S10	BM 3X6B	114260	2	RAKE BKT
S9	BM 4X8N	114294	1	RAKE BKT
S8	2BTC 4X8BK	114457	4	RAKE BKT
S7	BM 3X10B	114261	2	RAKE BKT
S6	BM 3X8N	114281	29	RAKE BKT
S5	2BTC 2X5N	114455	0	RAKE BKT
S4	2BTC 2X6B	114456	6	RAKE BKT
S3	2BTC 3X8B	114465	54	RAKE BKT
S2	2BTC 3X10B	114523	4	RAKE BKT
S1	WRENCH SCREW 2.6X6B	122297	3	RAKE BKT



51	SUPPORT-STUD	135870	6	
50	SD CARD IFD	122927	1	
49	TOP COVER	122927	1	
47	BACK CHASSIS	136506	1	
46	TUNER		1	
45	KNOB PUSH	114556	1	
44	BKT POWER S/W	113258	1	
43	NETWORK IFD		1	
42	AUDIO IFD		1	
41	INPUT IFD		1	
40	CD/PUFF IFD		1	
39	BKT SUPPORT	130189	1	
37	DCDC IFD		1	
36	ACDC IFD		1	
35	AMP IFD		1	
34	CD MECHA		1	
33	CD IFD		1	
32			1	
31	BKT - CD MECHA	130187	1	
30-3	FAN	114182	2	
30-2	BKT SPEAKER	130186	1	
30-1	SPEAKER UNIT FULL 1" 80HLMJW	112275	1	
30	MAIN CHASSIS PAC-5600	135185	1	
29	FOOT (BLACK) PA-ACC	112773	4	
28	FRONT P.C BOARD		1	
27	GUIDE FLT	114811	1	
26	VFD 9-ST-37GINK PUTABA	103351	1	
25	USB P.C BOARD		1	
24	MC UNIT CONDENSOR	112379	1	
23	SEGMENT P.C BOARD		1	
22	TACT KNOB 3KEY	101343	1	
21	COM.SG.FRTY.PAC-5000.TACT KNOB 4KEY	101101	1	
20	COM.SG.LGRY.PAC-5000.TACT KNOB 10KEY	101099	1	
19	COM.SG.LGRY.PAC-5000.TACT KNOB 6KEY	101098	1	
18	COM.SG.LGRY.PAC-5000.TACT KNOB 7KEY	101097	1	
17	COM.SG.BLK.CD E/BCT KNOB, ST-100	101341	1	
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15-1	COM.SG.BLU/BLK.PAC-5000.4P KNOB(D)	101102	9	
15				
14	POWER KNOB(D)	101344	1	
13	FELT BKT	113317	1	
12	FELT	113968	1	
11	COM.SG.PAC-5600.FRONT BODY	136505	1	
10	COM.SG.PAC-5000.INLAY SEGMENT	136507	1	
9	COM.SG.PAC-5000.INLAY-R	101510	1	
8	COM.SG.PAC-5000.INLAY-L	136505	1	
7	WINDOW FILTER	122248	1	
6	DOM.SG.BLK.PAC-5000.WINDOW DECO	101124	1	
5	COM.G.ACRYL(SMGG).PW-632.WINDOW	101531	1	
4	COM.SG.BLUE BLACK.PAC-5600.FRONT PANEL	2001801	1	
3-5	COM.SG.PAC-5000.INLAY ZONE (21-24)	101517	1	
3-4	COM.SG.PAC-5000.INLAY ZONE (17-20)	101516	1	
3-3	COM.SG.PAC-5000.INLAY ZONE (13-16)	101515	1	
3-2	COM.SG.PAC-5000.INLAY ZONE (9-12)	101514	1	
3-1	COM.SG.PAC-5000.INLAY ZONE (5-8)	101513	1	
3	COM.SG.PAC-5000.INLAY ZONE (1-4)	101512	1	
2-1	COM.SG.YELLOW LINE.PAC-5000.CONTROL KNOB	101114	2	
2	COM.SG.WHITE LINE.PAC-5000.CONTROL KNOB	101115	7	
1	COM.SG.BLU/BLK.PAC-5000.MASTER KNOB	101100	1	
NO	PART NAME	PAC-5000A	QTY	REMARK



EXPLODED VIEW OF CABINET & CHASSIS/MECHANICAL PARTS LIST

