



Service Manual

Created: 09 July 2016



SD16

I/O Stage Box with 16 Remote-Controllable MIDAS Preamps, 8 Outputs, AES50 Networking and ULTRANET Personal Monitoring Hub

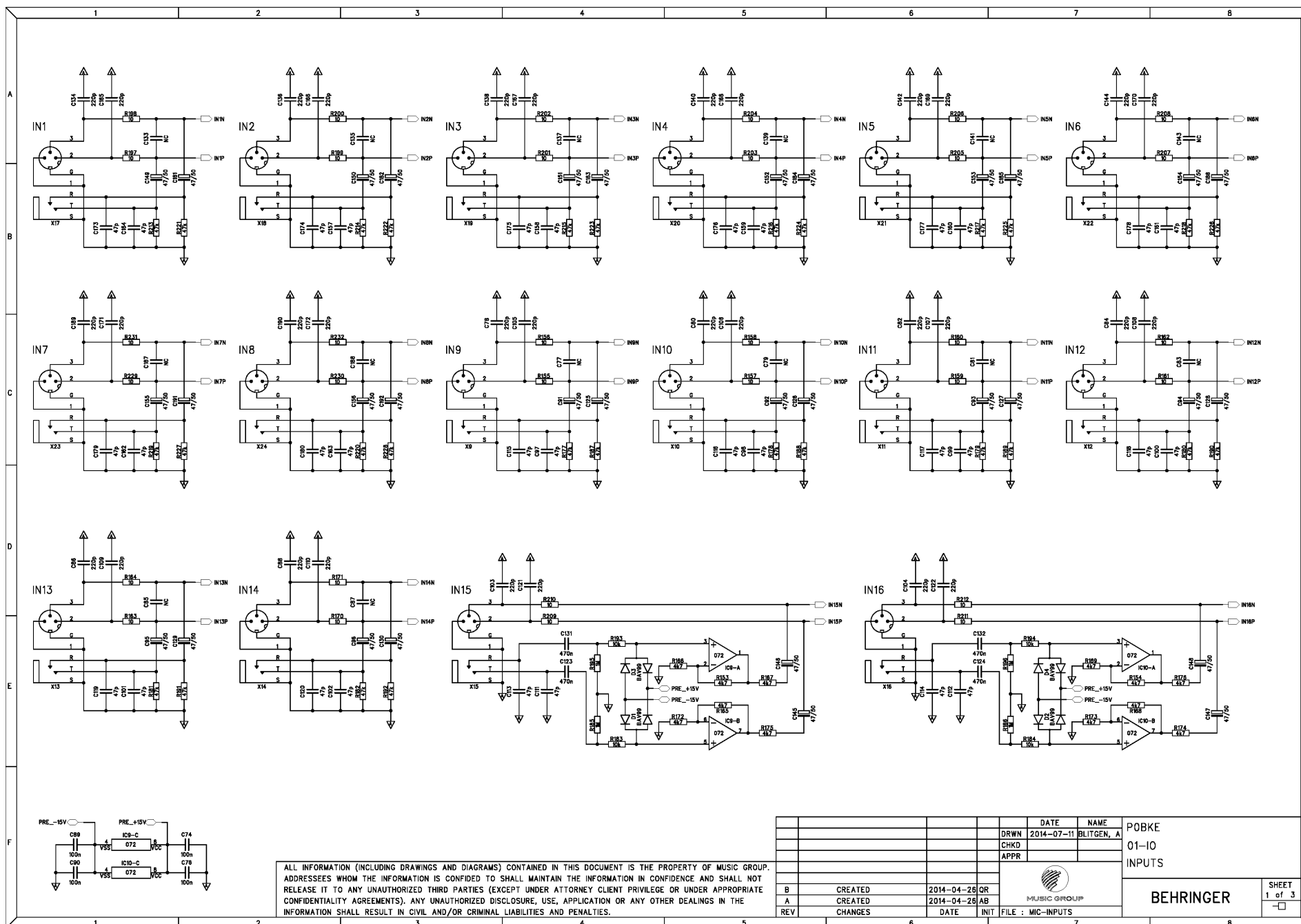
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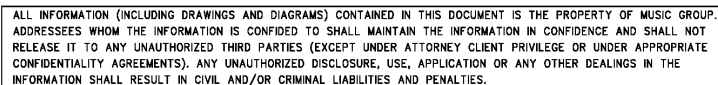
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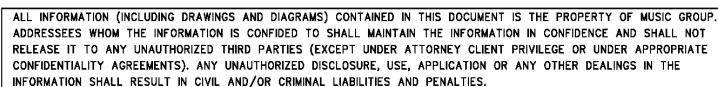
SD16

Specifications

- 16 MIDAS-designed, fully programmable mic preamps for audiophile sound quality
- 8 analog, servo-balanced XLR outputs
- AES50 network ports featuring KLARK TEKNIK's SuperMAC networking capability for ultra-low jitter and latency
- 4-port ULTRANET distribution hub for powered connection of 4 BEHRINGER P16-M personal monitoring mixers
- Digital audio and control connectivity for TURBOSOUND speaker systems with ULTRANET networking capability
- Rack ears and protection bumpers included for installed and mobile applications
- Dual AES50 ports for cascading multiple units—no merger or router required
- Remote operation via shielded CAT5e cable up to 330 ft / 100 m length
- USB connector for system updates via PC
- Ultra-compact and roadworthy, all-steel chassis
- 3-Year Warranty Program*
- Conceived and designed by BEHRINGER Germany

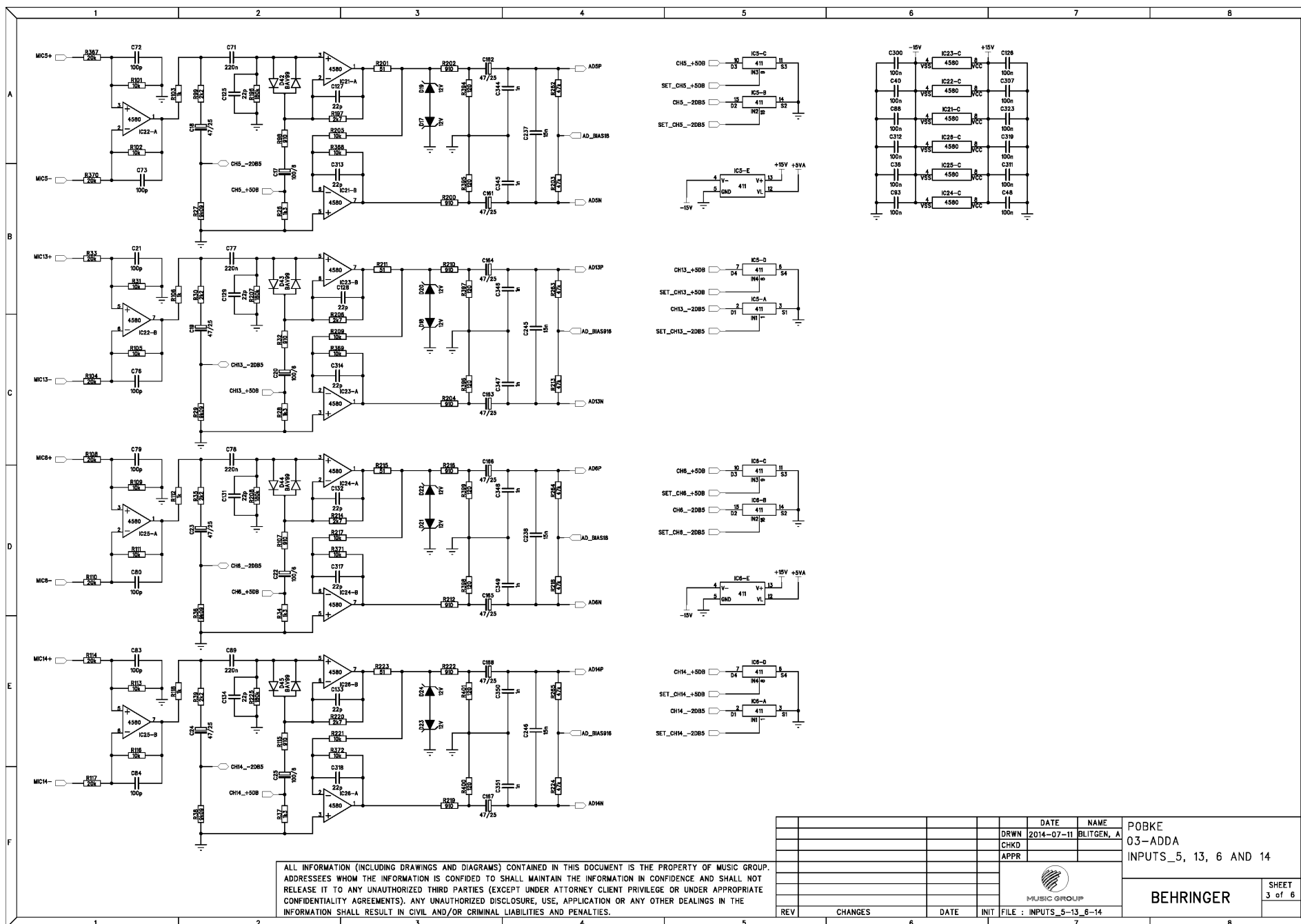


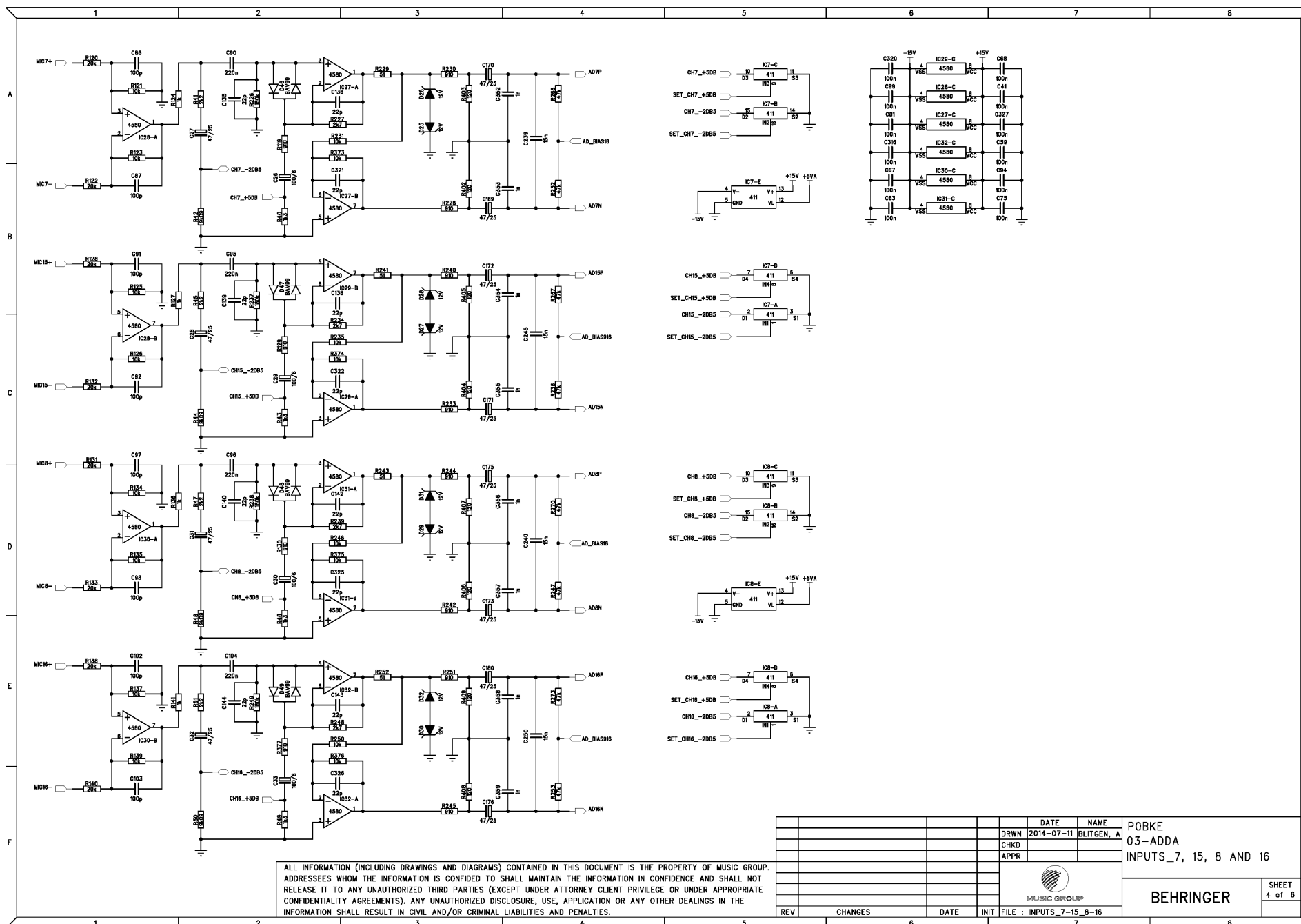






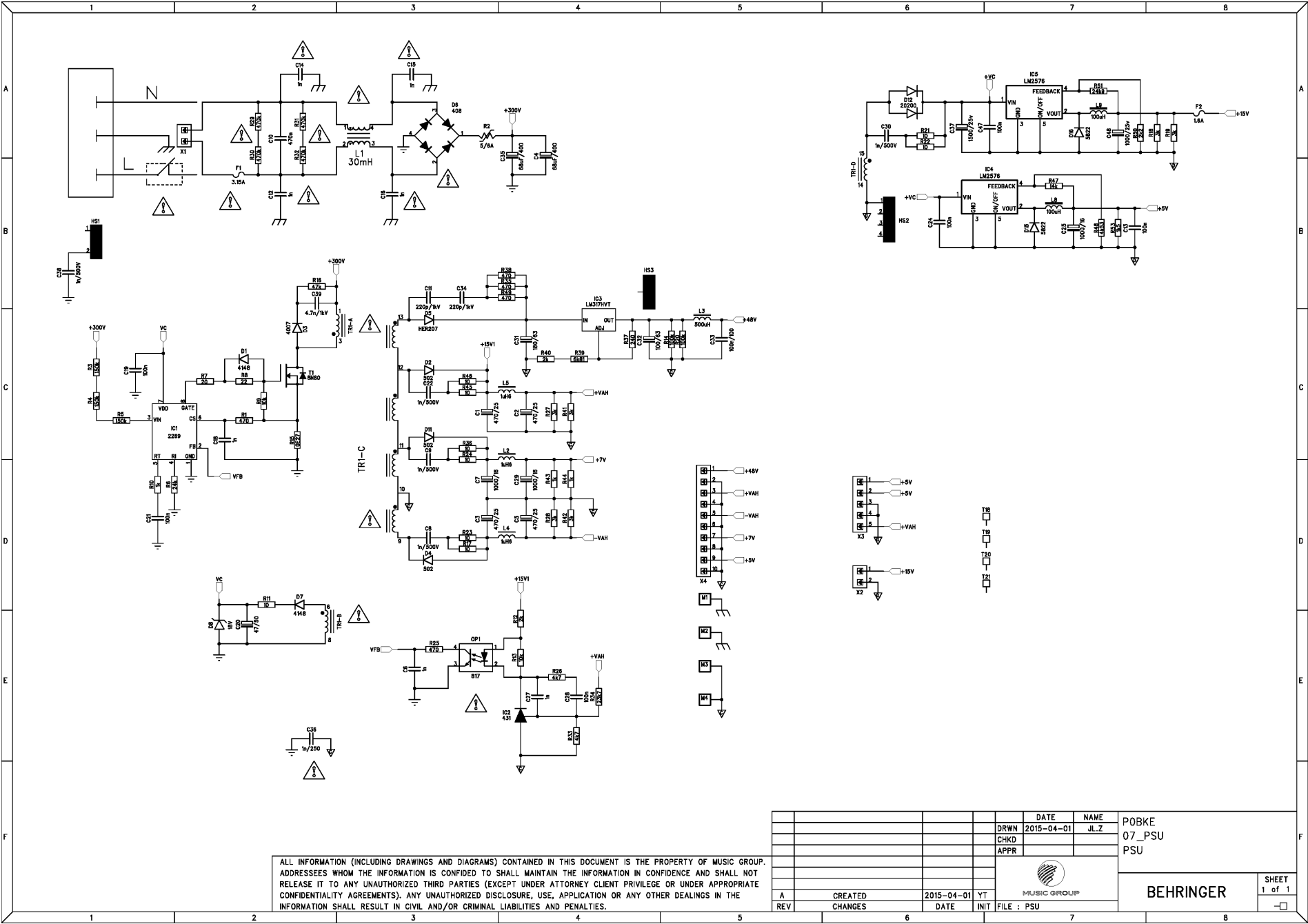






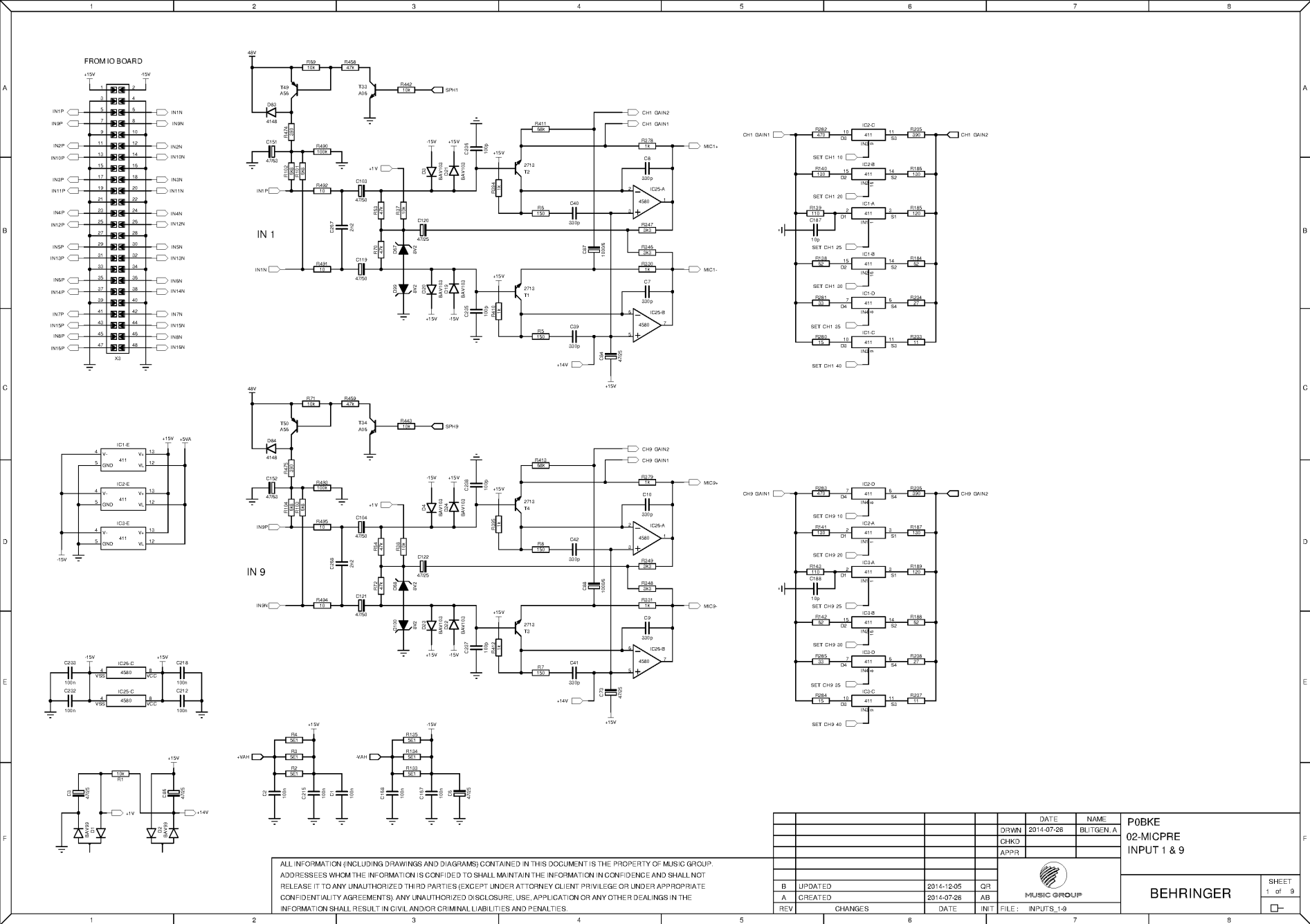


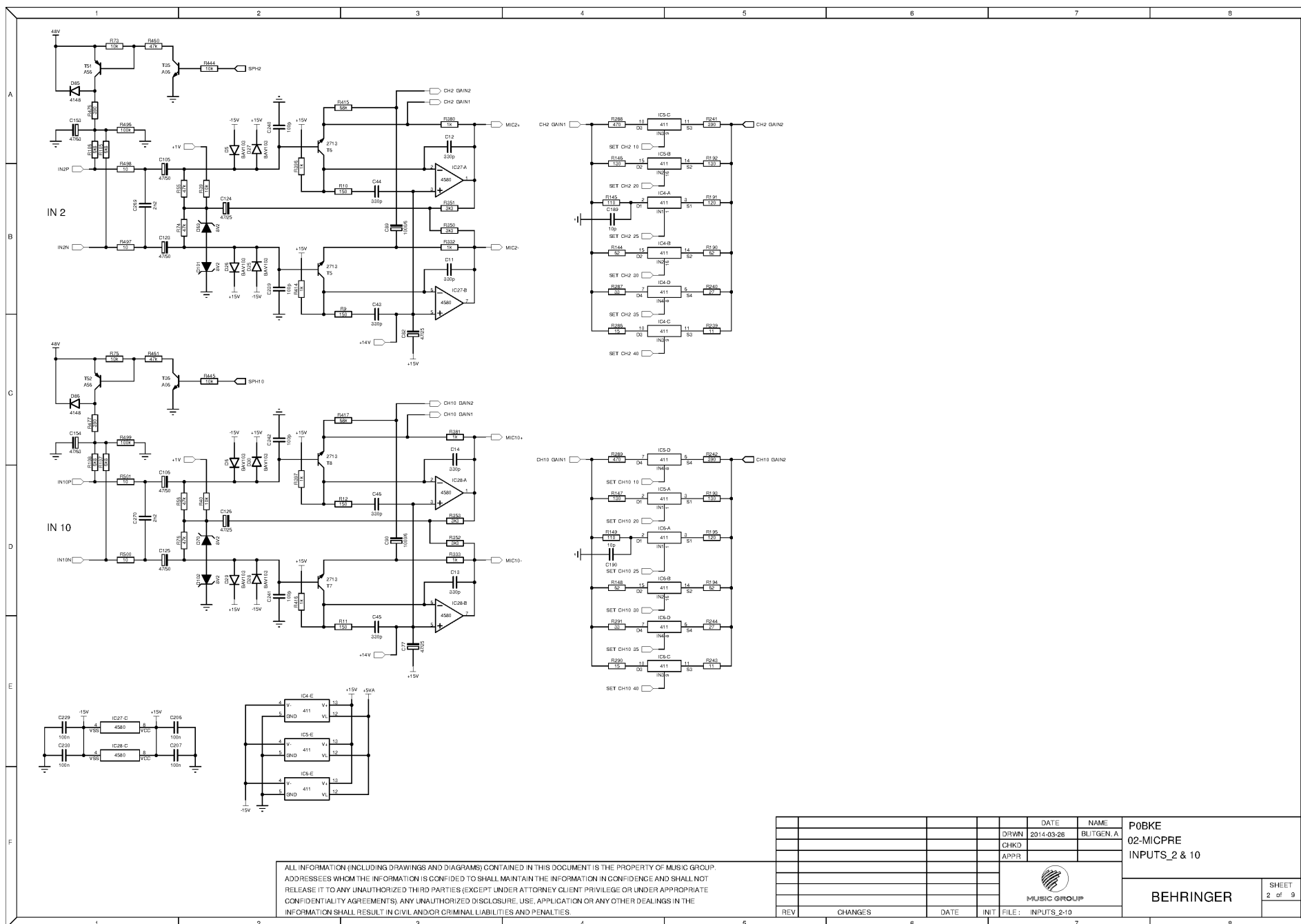


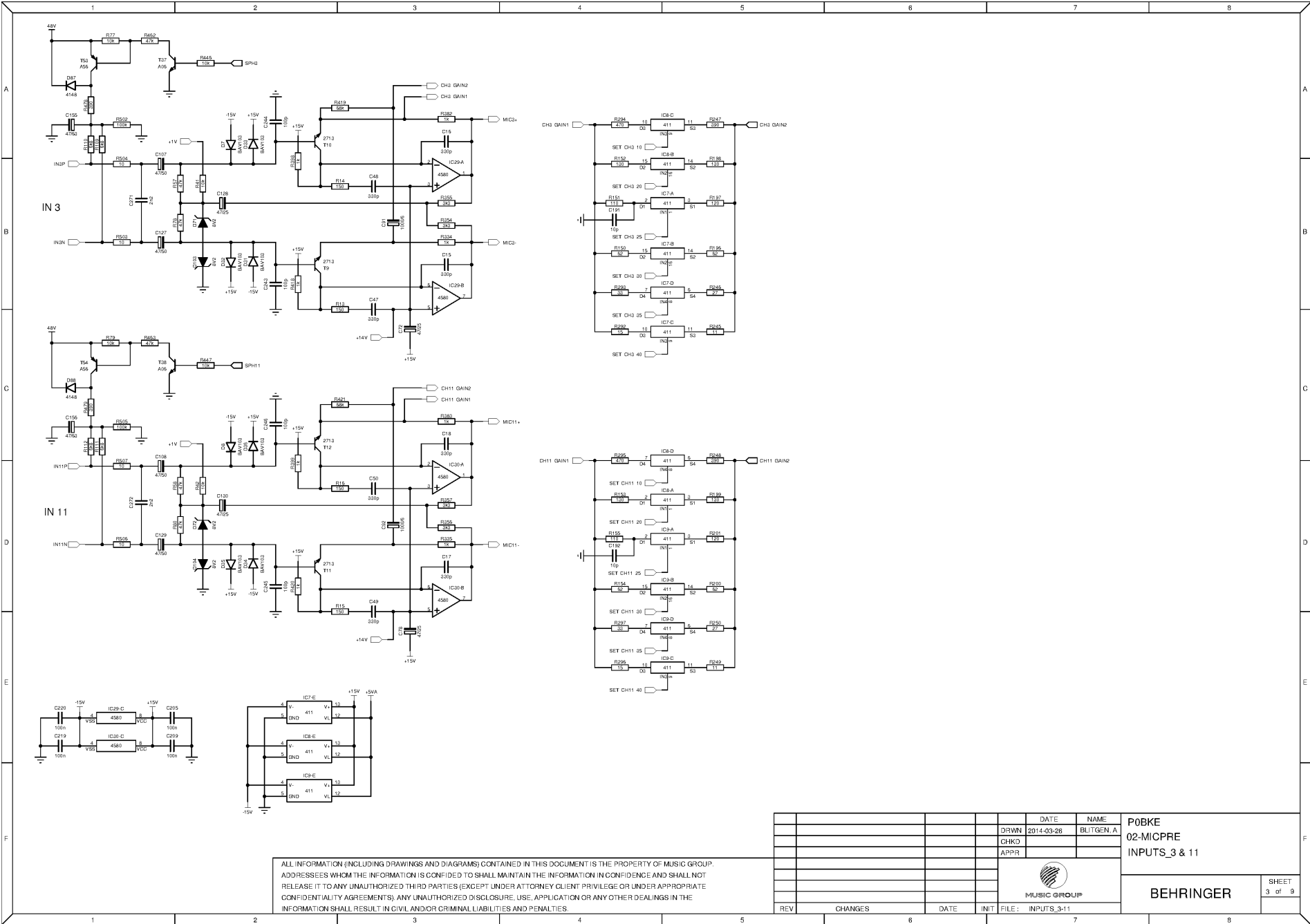


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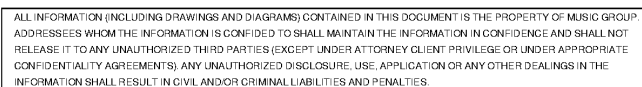


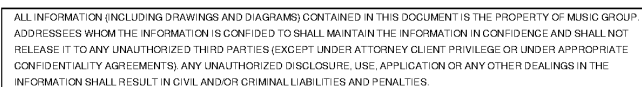


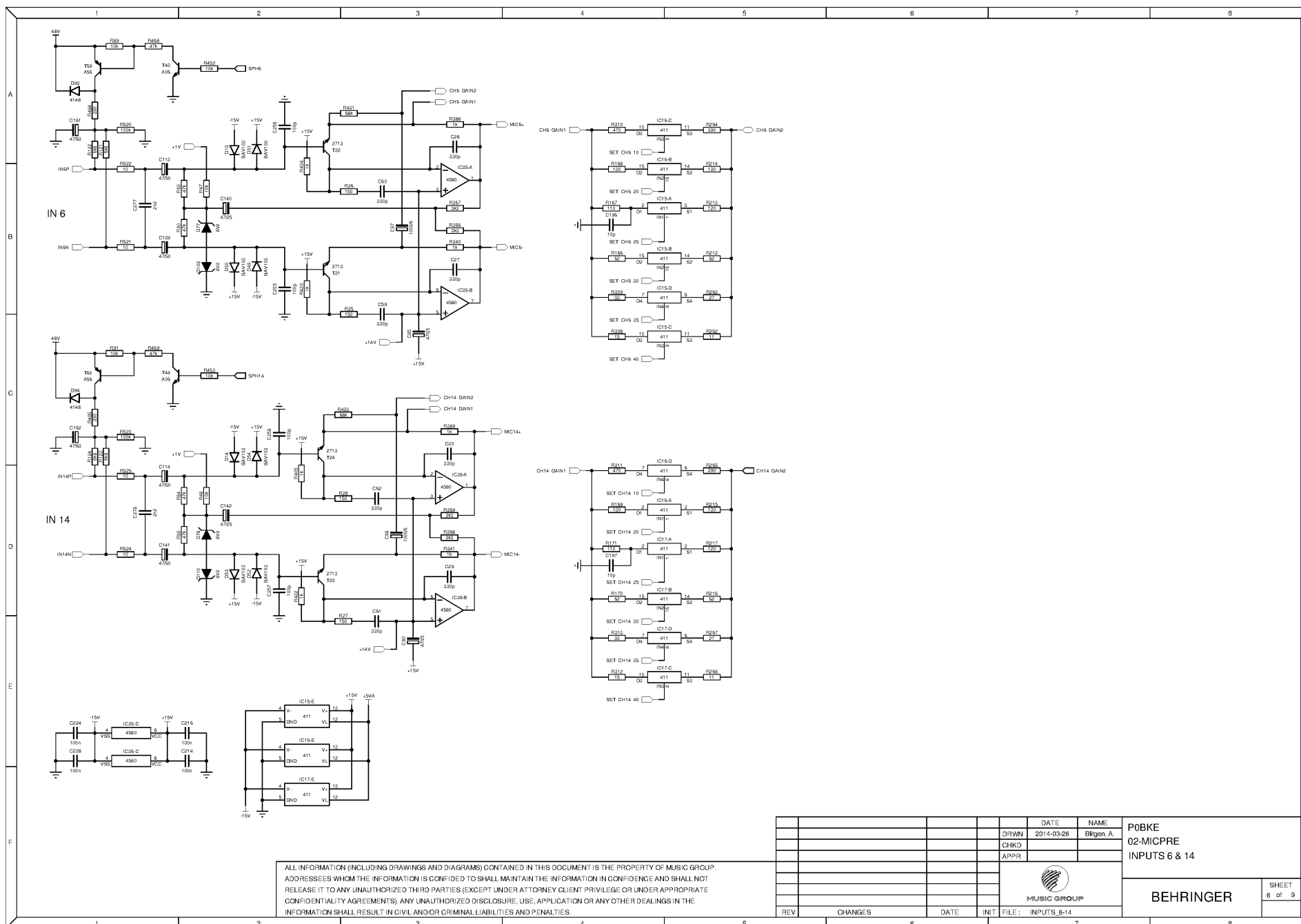


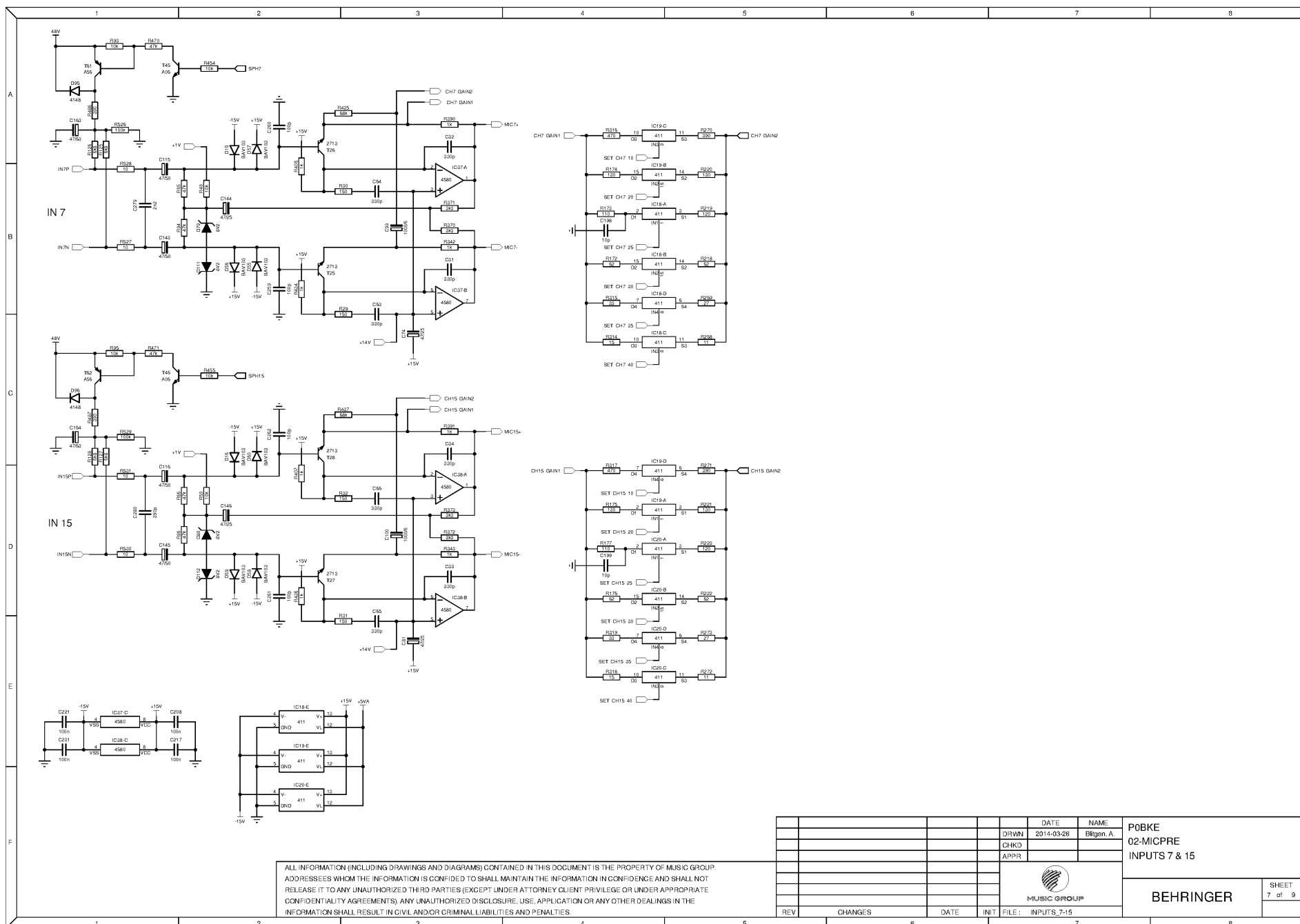
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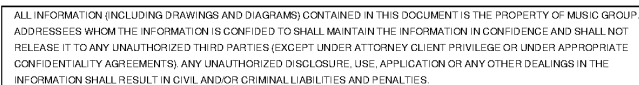
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DRWN			CHKD		
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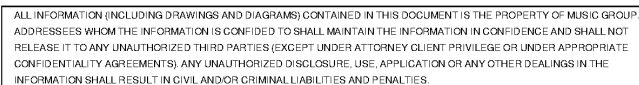


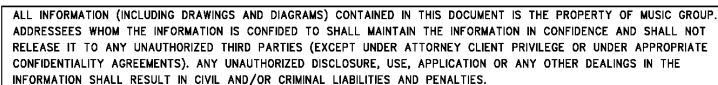


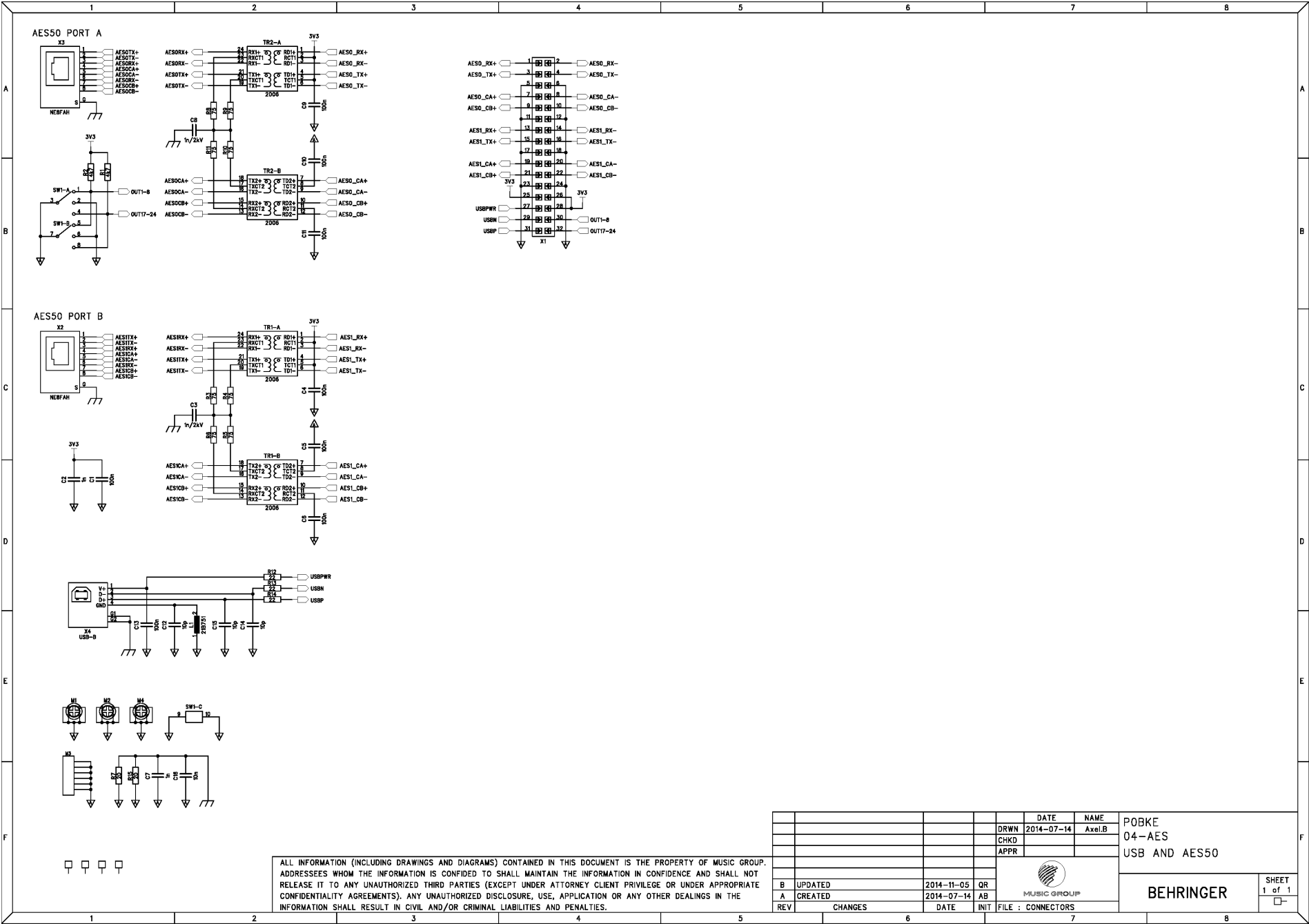


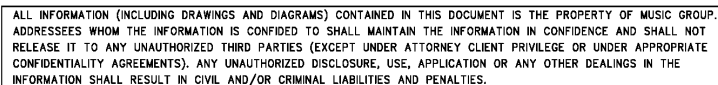




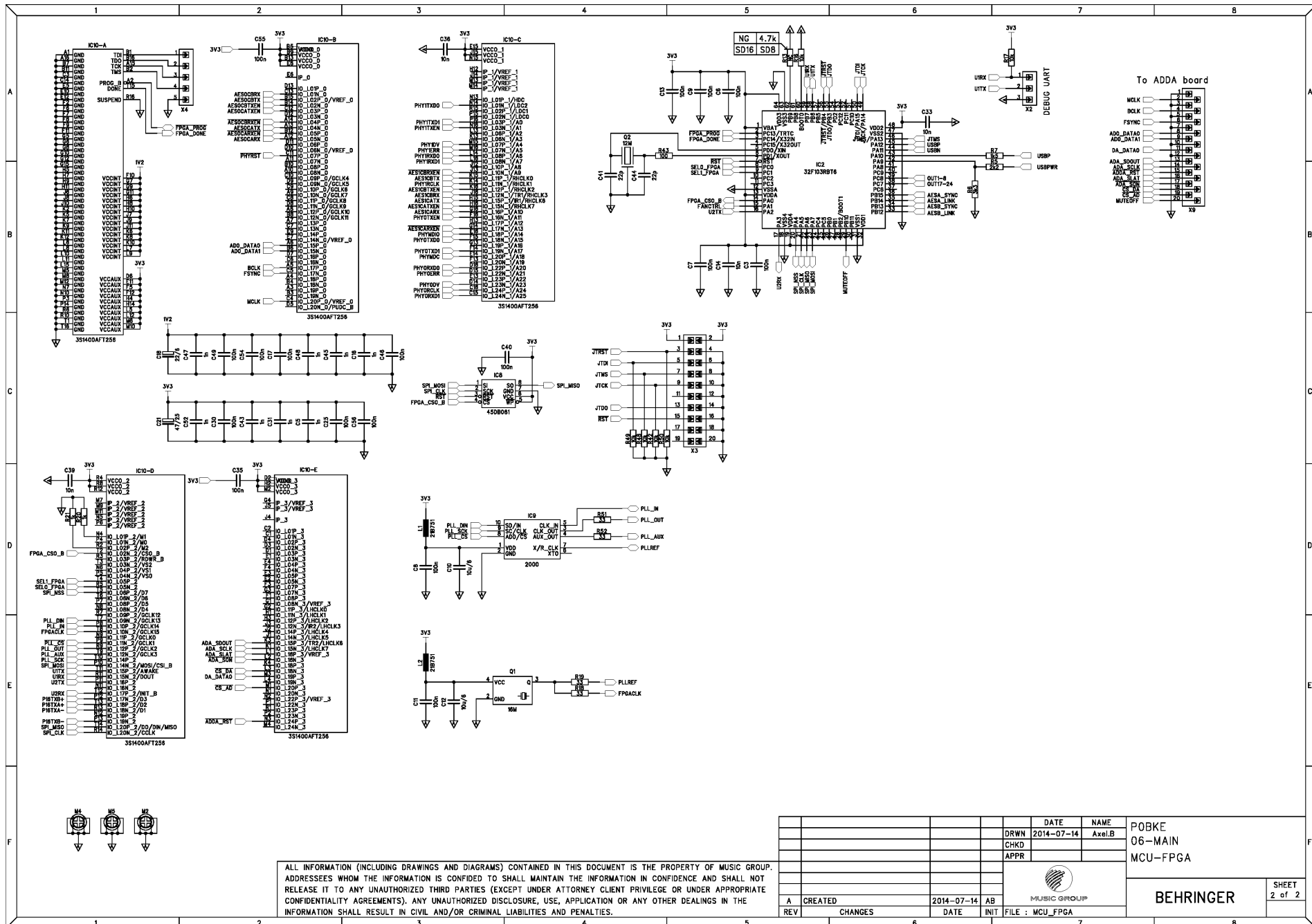








						DATE	NAME	POBKE 06-MAIN POWER AND AES50
						DRWN	2014-07-14 Axel.B	
						CHKD		
						APPR		
						 MUSIC GROUP		BEHRINGER
B	UPDATED		2014-11-06	QR				
A	CREATED		2014-07-14	AS				
REV	CHANGES		DATE	INIT	FILE	AES/POWER		SHEET 1 of 2 ☐



Service Assemblies

	Quantity	Unit	S.Sku	M.Sku	Description	Reference Designators	Notes
1			Q05-BKI07-00102	A09-BKE00-00001	SPARE PART;POBKE;REV:A;PCB ASSEMBLY;PCB:7;HI;PSU	[EXTRA SPARE]	
2			Q05-BKE02-00102	A09-BKE00-00002	SPARE PART;POBKE;REV:B;PCB ASSEMBLY;PCB:2;HI;MICPRE	[EXTRA SPARE]	
3			Q05-BKE06-00102	A09-BKE00-07002	SPARE PART;POBKE;REV:B;MAIN;PCB ASSEMBLY;PCB:6;HI	[EXTRA SPARE]	
4			Q05-BKE03-00103	A09-BKE00-07003	SPARE PART;POBKE;REV:C;MAIN;PCB ASSEMBLY;PCB:3;HI;ADDA	[EXTRA SPARE]	
5			Q05-BKE04-00102	A09-BKE00-20002	SPARE PART;POBKE;REV:B;INPUT;PCB ASSEMBLY;PCB:4;HI;P16	[EXTRA SPARE]	
6			Q05-BKE05-00102	A09-BKE00-AW002	SPARE PART;POBKE;REV:B;AES;PCB ASSEMBLY;PCB:5;HI	[EXTRA SPARE]	

Hi Pcb Assemblies

	Quantity	Unit	S.Sku	M.Sku	Description	Reference Designators	Notes
1	1.0000	PC		A05-BKE01-00103	PCB ASSEMBLY;POBKE;PCB:1;REV:C;HI;IO		

Cable

	Quantity	Unit	S.Sku	M.Sku	Description	Reference Designators	Notes
1	1.0000	PC		A81-00000-66328	WIRE HARNESS;AWG:26;UL2468;2 MM;5;150 MM;A2006H-5P;P1018-5P	[POBKE:7: {1.0}(X3)]	
2	1.0000	PC		A81-00001-19997	WIRE HARNESS;LENGTH:70 MM;AWG:26;UL2468;PITCH:2 MM;POLES:12;A2006H-12P;P1018-12P	[POBKE:3: {1.0}(X3)]	
3	1.0000	PC		A81-00001-23673	WIRE HARNESS;LENGTH:200 MM;AWG:18;UL1007;PITCH:3.96 MM;POLES:2;PIN1 RED;JS1121;JS4008	[POBKE:7: {1.0}(X2)]	
4	1.0000	PC		A81-23031-06840	WIRE HARNESS;LENGTH:230mm;ZEE;AWG:26;UL2468;P:2mm;HOUSING-BOARD IN CONNECTOR;POLES:10;PIN1 RED/OTHERS BLK	[POBKE:7: {1.0}(X4)]	
5	1.0000	PC	Q83-00001-19992	A83-00001-19992	SHIELDED CABLE;LENGTH:100 MM;AWG:26;UL2547;PITCH:2 MM;POLES:13;A2006H;P1018;PIN13 IS SHIELD	[POBKE:6: {1.0}(X7)]	
6	1.0000	PC	Q85-00000-59059	A85-00000-59059	WIRE HARNESS;1 MM;20;200 MM;FLEX FLAT CABLE		
7	1.0000	PC	Q87-00001-07333	A87-00001-07333	CABLE ASSEMBLY;STRAND WIRE;LENGTH:50 MM;AWG:18;UL1672;BROWN;BOTH SIDES S/T:7MM		
8	1.0000	PC		A87-00001-19546	CABLE ASSEMBLY;STRAND WIRE;LENGTH:120 MM;AWG:18;UL1672;PITCH:3.96 MM;POLES:3;BLUE;JS1121;S/T:7MM; NO PIN2		
9	1.0000	PC	Q76-00001-31031	A76-00001-31031	CABLE;AC-CORD;W/POLYBAG;LENGTH:150cm;AWG:18;H05VV-F 3G0.75MM;VERSION;UK;5A FUSE		(UK)
10	1.0000	PC	Q76-15222-06417	A76-15222-06417	CABLE;AC-CORD;W/POLYBAG;LENGTH:152cm;AWG:18;VERSION;UL;SPEC.NO:06417		(UL)
11	1.0000	PC	Q76-15212-03119	A76-15212-03119	CABLE;AC-CORD;W/POLYBAG;LENGTH:152cm;H05VV-F 3G 0.75MM2;VERSION;EU;SPEC.NO:03119		(EU)
12	1.0000	PC	Q76-18050-47490	A76-18050-47490	CABLE;AC-CORD;LENGTH:180cm;VERSION:SAA;PLUG:HE105 ISOLATED;SAA H05VV-F 3x0.75mm2;CONN.HP-3;SPEC.NO:47490		(SAA)
13	1.0000	PC	Q76-00000-13573	A76-00000-13573	CABLE;AC-CORD;3;AR;1500 MM;Plug + Connector:321+730;H05VV-F 3G0.75		(AR)
14	1.0000	PC	Q76-15032-55649	A76-15032-55649	CABLE;AC-CORD;CLASS II;W/POLYBAG;JAPAN;LENGTH:150cm;POLES:3;APPROVAL:PSE;JS155 3 + VCTF 3x0.75mm2 + V1528		(JPHM, JPSH, JPMG)
15	1.0000	PC	Q76-00000-05305	A76-00000-05305	CABLE;AC-CORD;3;BR;1500 MM;Plug + Connector:375+730;H05VV-F 3G0.75		(BR)

Capacitor

	Quantity	Unit	S.Sku	M.Sku	Description	Reference Designators	Notes
1	1.0000	PC			CAP E;22uF;6V;PITCH:2mm5;5mm x 11mm;VERTICAL 12.7-15-9mm	[POBKE:6: {1.0}(C18)]	*NOT available in DP
2	3.0000	PC			CAP E;1uF;25V;PITCH:2mm5;4mm x 7mm;VERTICAL 12.7-15-9mm	[POBKE:3: {3.0}(C199,C205,C208)]	*NOT available in DP
3	12.0000	PC			CAP E;10uF;25V;PITCH:2mm5;4mm x 7mm;VERTICAL 12.7-15-9mm	[POBKE:3: {12.0}(C187-C188,C198,C209,C228-C229,C241,C244,C278-C279,C283,C288)]	*NOT available in DP
4	65.0000	PC			CAP E;47uF;25V;PITCH:2mm5;5mm x 7mm;VERTICAL 12.7-15-9mm	[POBKE:6: {1.0}(C21)]	*NOT available in DP
5	62.0000	PC			CAP E;47uF;25V;PITCH:2mm5;5mm x 11mm;VERTICAL 12.7-15-9mm	[POBKE:1: {26.0}(C2,C4,C6,C8,C10,C12,C14,C32-C33,C42-C43,C45,C47,C49,C51,C53,C55,C57,C67-C73,C75)]	*NOT available in DP
6	20.0000	PC			CAP E;100uF;6V3;PITCH:2mm5;5mm x 7mm;VERTICAL 12.7-15-9mm	[POBKE:3: {20.0}(C1,C4-C5,C8-C9,C12-C13,C16-C17,C20,C22,C25-C26,C29-C30,C33,C192-C193,C201,C207)]	*NOT available in DP
7	2.0000	PC			CAP E;10uF;50V;PITCH:2mm5;5mm x 11mm;VERTICAL 12.7-15-9mm	[POBKE:4: {2.0}(C1-C2)]	*NOT available in DP
8	16.0000	PC			CAP E;47uF;63V;PITCH:2mm5;6mm x 11mm;VERTICAL 12.7-15-9mm	[POBKE:2: {16.0}(C151-C166)]	*NOT available in DP
9	1.0000	PC			CAP E;1 mF;6V3;PITCH:5 MM;SIZE:8X11;L: 11+0.5MM;AI;VERTICAL 12.7-15-9mm;85C	[POBKE:6: {1.0}(C29)]	*NOT available in DP
10	16.0000	PC			CAP E;1 mF;6.3 V;20 %PITCH:5 MM;RADIAL;SIZE:8X11;L: 11+0.5MM;VERTICAL 12.7-15-9mm;85C	[POBKE:2: {16.0}(C87-C102)]	*NOT available in DP
11	16.0000	PC			CAP CER;2.7 nF;50 V;COG;5 %;SMD805	[POBKE:3: {16.0}(C174,C212,C215,C219-C221,C257,C259,C263,C265,C271-C272,C289,C291,C369-C370)]	*NOT available in DP
12	16.0000	PC			CAP CER;15 nF;50 V;COG;5 %;SMD805	[POBKE:3: {16.0}(C196-C197,C200,C204,C206,C236-C240,C242,C245-C248,C250)]	*NOT available in DP
13	2.0000	PC			CAP CER;1 nF;2 kV;X7R;10 %;SMD805;SMD1206	[POBKE:5: {2.0}(C3,C8)]	*NOT available in DP
14	1.0000	PC			CAP CER;100nF;100V;20%;PITCH:5mm;DISC;VERTICAL 12.7-15-9mm	[POBKE:7: {1.0}(C33)]	*NOT available in DP
15	5.0000	PC			CAP CER;1 nF;500 V;COG;5 %;SMD1206	[POBKE:7: {5.0}(C8-C9,C22,C30,C38)]	*NOT available in DP
16	2.0000	PC			CAP CER;MULTILAYER;390 pF;50 V;5%;COG;SMD805	[POBKE:2: {2.0}(C280,C282)]	*NOT available in DP
17	2.0000	PC			CAP CER;220 pF;1 KV;COG;SMD1206	[POBKE:7: {2.0}(C11,C34)]	*NOT available in DP
18	4.0000	PC			CAP CER;10 uF;6.3 V;X5R;10 %;SMD805;YAGEO (CC85KRX5R6BB106)	[POBKE:6: {4.0}(C10,C12,C19,C24)]	*NOT available in DP
19	2.0000	PC			CAP CER;10uF;6V3;X5R;20%;SMT805	[POBKE:6: {2.0}(C22-C23)]	*NOT available in DP
20	2.0000	PC			CAP CER;1uF;10V;X5R;10%;SMD603	[POBKE:6: {2.0}(C32,C38)]	*NOT available in DP
21	2.0000	PC			CAP CER;1uF;16V;X7R;10%;SMT805	[POBKE:6: {2.0}(C58-C59)]	*NOT available in DP
22	2.0000	PC			CAP CER;100nF;25V;X7R;10%;SMT805	[POBKE:2: {1.0}(C2)]	*NOT available in DP
23	35.0000	PC			CAP CER;10pF;50V;10%;SMT603	[POBKE:5: {3.0}(C12,C14-C15)]	*NOT available in DP
24	50.0000	PC			CAP CER;22pF;50V;10%;SMT603	[POBKE:6: {2.0}(C41,C44)]	*NOT available in DP
25	48.0000	PC			CAP CER;47pF;50V;5%;COG(NPO);SMT603	[POBKE:1: {48.0}(C1,C3,C5,C7,C9,C11,C13,C15,C44,C46,C48,C50,C52,C54,C56,C58,C97-C102,C111-C120,C157-C164,C173-C180)]	*NOT available in DP
26	32.0000	PC			CAP CER;100pF;50V;5%;COG;SMD603	[POBKE:2: {32.0}(C235-C266)]	*NOT available in DP
27	64.0000	PC			CAP CER;100pF;50V;20%;SMT603	[POBKE:3: {48.0}(C21,C34-C35,C38-C39,C42,C46,C49-C50,C53-C54,C57-C58,C61-C62,C65-C66,C72-C73,C76,C79-C80,C83-C84,C86-C87,C91-C92,C97-C98,C102-C103,C177-C178,C213-C214,C216-C217,C222-C223,C260-C261,C269-C270,C273-C274,C292-C293)]	*NOT available in DP
28	32.0000	PC			CAP CER;220pF;50V;10%;SMT603	[POBKE:1: {32.0}(C78,C80,C82,C84,C86,C88,C103-C110,C121-C122,C134,C136,C138,C140,C142,C144,C165-C172,C189-C190)]	*NOT available in DP
29	64.0000	PC			CAP CER;330pF;50V;COG;5%;SMD603	[POBKE:2: {64.0}(C7-C70)]	*NOT available in DP
30	16.0000	PC			CAP CER;470pF;50V;10%;SMT603	[POBKE:4: {16.0}(C4-C5,C8,C13,C23,C26,C30,C35,C38,C44,C47,C52,C63,C65,C67,C69)]	*NOT available in DP
31	13.0000	PC			CAP CER;1nF;50V;10%;SMT603	[POBKE:5: {1.0}(C2)]	*NOT available in DP
32	32.0000	PC			CAP CER;1nF;50V;COG;5%;SMT603;(MURATA GRM1885C1H102JA01D)	[POBKE:3: {32.0}(C328-C359)]	*NOT available in DP

	Quantity	Unit	S.Sku	M.Sku	Description	Reference Designators	Notes
33	18.0000	PC			CAP CER;10nF;50V;10%;SMT603	[POBKE:6: {4.0}(C36,C39,C50,C57)]	*NOT available in DP
34	163.0000	PC			CAP CER;100nF;50V;10%;SMT603	[POBKE:5: {8.0}(C1,C4-C6,C9-C11,C13)]	*NOT available in DP
35	16.0000	PC			CAP CER;470pF;50V;10%;SMT805	[POBKE:1: {16.0}(C17,C19,C21,C23,C25,C27,C29,C31,C59-C66)]	*NOT available in DP
36	1.0000	PC			CAP CER;1nF;50V;10%;SMT805	[POBKE:5: {1.0}(C7)]	*NOT available in DP
37	3.0000	PC			CAP CER;1nF;50V;X7R;10%;SMD805	[POBKE:7: {3.0}(C6,C18,C27)]	*NOT available in DP
38	14.0000	PC			CAP CER;2nF;50V;C0G;5%;SMD805	[POBKE:2: {14.0}(C267-C279,C281)]	*NOT available in DP
39	3.0000	PC			CAP CER;10nF;50V;10%;SMT805	[POBKE:5: {1.0}(C16)]	*NOT available in DP
40	40.0000	PC			CAP CER;100nF;50V;X7R;10%;SMT805	[POBKE:6: {2.0}(C9,C25)]	*NOT available in DP
41	1.0000	PC			CAP CER;100nF;50V;X7R;20%;SMT805	[POBKE:7: {1.0}(C19)]	*NOT available in DP
42	16.0000	PC			CAP FILM;220nF;63V;MPF;5%;PITCH:5mm;BOX;VERTICAL 12.7-15-9mm	[POBKE:3: {16.0}(C37,C44-C45,C51-C52,C60,C64,C70-C71,C77-C78,C89-C90,C95-C96,C104)]	*NOT available in DP
43	4.0000	PC			CAP FILM;470nF;63V;MPF;10%;PITCH:5mm;BOX;VERTICAL 12.7-15-9mm	[POBKE:1: {4.0}(C123-C124,C131-C132)]	*NOT available in DP
44	4.0000	PC			CAP Y2;1nF;250V;PITCH:7mm5	[POBKE:7: {4.0}(C12,C14-C16)]	*NOT available in DP
45	1.0000	PC			CAP Y1;1nF;250V;20%;Y5U;PITCH:10mm;PRECUT:3.3	[POBKE:7: {1.0}(C36)]	*NOT available in DP
46	1.0000	PC	R12-32470-06719	B12-32470-06719	CAP X2;470n;275V;P15;18*16.5*8.5;NOT PRECUT;	[POBKE:7: {1.0}(C10)]	
47	1.0000	PC			CAP E;470 uF;10 V;20 %;RADIAL;8*11.5;5 MM;T&R	[POBKE:6: {1.0}(C28)]	*NOT available in DP
48	1.0000	PC			CAP E;LOW ESR;47 uF;50 V;20 %;RADIAL;6.3*11;2.5 MM;T&R	[POBKE:7: {1.0}(C20)]	*NOT available in DP
49	1.0000	PC			CAP E;1 mF;25 V;20 %;RADIAL;10*20;5 MM;FH Series;T&R	[POBKE:7: {1.0}(C48)]	*NOT available in DP
50	2.0000	PC			CAP E;LOW ESR;68 uF;400 V;20 %;PITCH:7.5 MM;RADIAL;16x25;PRE-CUT 3.3	[POBKE:7: {2.0}(C4,C35)]	*NOT available in DP
51	1.0000	PC			CAP E;LOW ESR;100 uF;63 V;20 %;PITCH:5 MM;RADIAL;8x16;VERTICAL 12.7-15-9mm;KF SERIES;TAPING	[POBKE:7: {1.0}(C32)]	*NOT available in DP
52	1.0000	PC			CAP E;LOW ESR;1.5 mF;35 V;20 %;PITCH:5 MM;RADIAL;13x25;KF SERIES;VERTICAL 12.7-15-9mm	[POBKE:7: {1.0}(C37)]	*NOT available in DP
53	3.0000	PC			CAP E;LOW ESR;1 mF;16 V;20 %;PITCH:3.5 MM;RADIAL;8*20;KF SERIES;PRE-CUT 3.3	[POBKE:7: {3.0}(C7,C25,C29)]	*NOT available in DP
54	4.0000	PC			CAP E;LOW ESR;470 uF;25 V;20 %;PITCH:3.5 MM;RADIAL;8*20;KF SERIES;PRE-CUT 3.3	[POBKE:7: {4.0}(C1-C3,C5)]	*NOT available in DP
55	1.0000	PC			CAP E;LOW ESR;180 uF;63 V;20 %;PITCH:3.5 MM;RADIAL;8*25;KF SERIES;PRE-CUT 3.3	[POBKE:7: {1.0}(C31)]	*NOT available in DP
56	1.0000	PC			CAP CER;4nF;1KV;20%;PITCH:5mm;DISC;VERTICAL 12.7-15-9mm	[POBKE:7: {1.0}(C39)]	*NOT available in DP
57	4.0000	PC			CAP E;100uF;25V;PITCH:2mm5;6mm3 x 7mm;105C;VERTICAL 12.7-15-9mm	[POBKE:3: {4.0}(C194-C195,C202-C203)]	*NOT available in DP
58	64.0000	PC			CAP E;LOW LEAK;47 uF;63 V;20 %;PITCH:2.5 MM;RADIAL;6.3X11;PCB AUTO INSERT	[POBKE:1: {32.0}(C91-C96,C125-C130,C145-C156,C181-C186,C191-C192)]	*NOT available in DP

Circuit Protector

	Quantity	Unit	S.Sku	M.Sku	Description	Reference Designators	Notes
1	1.0000	PC	R22-00000-24721	B22-00000-24721	FUSE;3.15 A;V;LOW;P5.08;SIZE:8.5*8*4	[POBKE:7: {1.0}(F1)]	
2	1.0000	PC	R22-00001-24378	B22-00001-24378	FUSE;1.6A;30V;RESETTABLE;T/B	[POBKE:7: {1.0}(F2)]	
3	4.0000	PC	R22-60073-10003	B22-60073-10003	FUSE;1812L050-C;0A5 HOLD;15V MAX;SMD1812;LITTELFUSE;	[POBKE:4: {4.0}(F1-F4)]	

Coil

	Quantity	Unit	S.Sku	M.Sku	Description	Reference Designators	Notes
1	1.0000	PC	R37-00000-25508	B37-00000-25508	COIL;CHOKE;500 uH;COIL 7;PS176 T10X5X5 L(S-F);500uH MIN@1KHZ,0.25V	[POBKE:7: {1.0}(L3)]	
2	8.0000	PC	R37-00000-35431	B37-00000-35431	COIL;CHOKE;1000 OHMS;SMD;SMDWCM32165-102-2P	[POBKE:4: {8.0}(L5,L9,L11,L17,L23,L28,L31,L36)]	
3	1.0000	PC	R37-00000-60672	B37-00000-60672	COIL;CHOKE;30 mH;0.55 OHMS;30mH	[POBKE:7: {1.0}(L1)]	
4	2.0000	PC	R37-00000-72708	B37-00000-72708	COIL;4uH7;20%;SMD;2MM5X2X1MM2	[POBKE:6: {2.0}(L3-L4)]	
5	2.0000	PC	R37-00001-24574	B37-00001-24574	COIL;CHOKE;100 uH;DCR:0.08 OHM;L:10 MM;CS166125 L(S-F);100UH+/-10%@1KHZ,0.25V	[POBKE:7: {2.0}(L8-L9)]	
6	3.0000	PC	R37-01603-04435	B37-01603-04435	COIL;CHOKE;1uH6;UL TUBE:5 x 16m;WIRE DIA:2UEW0mm6;9.5TURNS	[POBKE:7: {3.0}(L2,L4-L5)]	
7	3.0000	PC	R39-00000-03394	B39-00000-03394	COIL;SMD;BEAD;SMD0805;(BLM21BD751SN1D)	[POBKE:5: {1.0}(L1)]	
8	16.0000	PC	R39-00000-39430	B39-00000-39430	COIL;SMD;90 OHMS;SMD603;BEAD;+/-25%;100MHz;DCR:0.35ohm Max;RC:200mA Max	[POBKE:4: {16.0}(L1,L3,L6,L8,L14-L15,L18,L20-L21,L24,L26,L29,L32,L34,L37,L39)]	
9	16.0000	PC	R39-21202-00018	B39-21202-00018	COIL;SMD BEAD;SMD1608;(MURATA BLM188B121))	[POBKE:4: {16.0}(L2,L4,L7,L10,L12-L13,L16,L19,L22,L25,L27,L30,L33,L35,L38,L40)]	

Connector

	Quantity	Unit	S.Sku	M.Sku	Description	Reference Designators	Notes
1	1.0000	PC	R83-20184-37925	B83-20184-37925	CONNECTOR;FEMALE;ANGLED;USB;SINGLE;TYPE:B	[POBKE:5: {1.0}(X4)]	
2	2.0000	PC	R83-32046-05188	B83-32046-05188	CONNECTOR;POLES:20;FFC/FPC;CONTACTS:BRASS TINNED;LOWER;HFW20R-1STE1LF;SMD	[POBKE:6: {1.0}(X9)]	
3	2.0000	PC	R84-19056-06015	B84-19056-06015	CONNECTOR;TERMINAL;BRASS W TIN;AWG16-22;JS-4008-T		
4	5.0000	PC	R84-22000-06018	B84-22000-06018	CRIMP TERMINAL;PITCH:3mm96;AWG18-22;A3963TOP-2		
5	40.0000	PC	R84-25016-06014	B84-25016-06014	CRIMP TERMINAL;PITCH:2mm0;AWG24-30;A2008TOP-2		
6	1.0000	PC	R84-42050-00155	B84-42050-00155	CRIMP CONNECTOR;LUG;INNER DIA:4mm3;AWG 14-18;WIRE MOUNT;STRAIGHT		
7	4.0000	PC	R94-10843-05158	B94-10843-05158	CONNECTOR;SOCKET;VERTICAL;POLES:08;SHIELDED;RJ45;(ZHENHU A WXCZ-111V1/EP)	[POBKE:4: {4.0}(X1-X4)]	
8	2.0000	PC	R95-00000-18292	B95-00000-18292	CONNECTOR;XLR;8;2.54 MM;SHIELDED;NEUTRIK: NE8FBH	[POBKE:5: {2.0}(X2-X3)]	
9	8.0000	PC	R95-00001-08282	B95-00001-08282	CONNECTOR;XLR;POLES:4;WITH EARTH PIN	[POBKE:1: {8.0}(X1-X8)]	
10	16.0000	PC	R95-00001-08284	B95-00001-08284	CONNECTOR;COMBO;POLES:8;WITH EARTH PIN	[POBKE:1: {16.0}(X9-X24)]	

Diode

	Quantity	Unit	S.Sku	M.Sku	Description	Reference Designators	Notes
1	2.0000	PC			DIODE;SCHOTTKY;40 V;DO201AD;3A;40V;1N5822	[P08KE:7: {2.0}(D15-D16)]	*NOT available in DP
2	2.0000	PC			DIODE;STANDARD;100 V;SOD123;1N4148W;SMD	[P08KE:7: {2.0}(D1,D7)]	*NOT available in DP
3	64.0000	PC			DIODE;BAV103;SOD80;TEMIC	[P08KE:2: {64.0}(D3-D66)]	*NOT available in DP
4	22.0000	PC			DIODE;BAV99;SOT23;SMD	[P08KE:1: {4.0}(D1-D4)]	*NOT available in DP
5	3.0000	PC			DIODE;ER502;DO201AD	[P08KE:7: {3.0}(D2,D4,D11)]	*NOT available in DP
6	17.0000	PC			DIODE;LL4148;LL34;TEMIC OR FC;SMD	[P08KE:2: {16.0}(D83-D98)]	*NOT available in DP
7	4.0000	PC			DIODE;GP;GS1G;400V;1A;DO-214AC;SMD	[P08KE:4: {4.0}(D1-D4)]	*NOT available in DP
8	1.0000	PC			DIODE;SM4007;5mm2 x 2mm7;SMT	[P08KE:7: {1.0}(D3)]	*NOT available in DP
9	32.0000	PC			DIODE;ZMM08V2;SMD1206;SMD	[P08KE:2: {32.0}(D67-D82,D99-D114)]	*NOT available in DP
10	32.0000	PC			DIODE;ZMM12V0;SMD1206	[P08KE:3: {32.0}(D1-D32)]	*NOT available in DP
11	1.0000	PC			DIODE;ZMM18V0;SMD1206	[P08KE:7: {1.0}(D8)]	*NOT available in DP
12	1.0000	PC			DIODE;RECTIFIER;HER207;DO15	[P08KE:7: {1.0}(D5)]	*NOT available in DP
13	1.0000	PC			DUAL RECTIFIER;TO220;MBR20200FCT	[P08KE:7: {1.0}(D12)]	*NOT available in DP
14	1.0000	PC	X80-00540-40600	H80-00540-40600	RECTIFIER;BRIDGE;KBL408;	[P08KE:7: {1.0}(D6)]	

Hardware

	Quantity	Unit	S.Sku	M.Sku	Description	Reference Designators	Notes
1	2.0000	PC			CABLE TIE;WIDTH:3mm;LENGTH:150mm		*NOT available in DP
2	0.4000	G			THERM-GREASE;COLOR:WHT;SPEC.NO:09286		*NOT available in DP
3	1.0700	G			SCREWLOCK;SPEC.NO:01090		*NOT available in DP
4	8.0000	PC			SCREW;DIA:4 MM;LEN:18 MM;FLAT 8.0mm;ZINC;BLACK;CROSS REC.;M4X18 MACHINE SCREW		*NOT available in DP
5	5.0000	PC			SCREW;M3mm*8mm;HEAD:PAN SPRING WASHER;INSERT:PHILIPS REC.;SURFACE:SILVER/NIC		*NOT available in DP
6	23.0000	PC			SCREW;M3mm*6mm;HEAD:PAN;INSERT:PHILIPS REC.;SURFACE:SILVER/ZINC		*NOT available in DP
7	14.0000	PC			SCREW;M3mm*6mm;PITCH:0mm5;HEAD:FLAT;DIA:5mm2;INSERT:PHILIPS REC.;SURFACE:BLACK/ZINC		*NOT available in DP
8	52.0000	PC			SCREW;A3mm*10mm;HEAD:PAN;INSERT:PHILIPS REC.;SURFACE:BLACK/ZINC		*NOT available in DP
9	1.0000	PC			SCREW;M4mm*8mm;HEAD:BINDING;INSERT:PHILIPS REC.;SURFACE:SILVER/ZINC		*NOT available in DP
10	4.0000	PC			SCREW;M4mm*10mm;HEAD:PAN;INSERT:PHILIPS REC.;SURFACE:SILVER/ZINC		*NOT available in DP
11	4.0000	PC			SCREW;M4mm*10mm;HEAD:PAN;INSERT:PHILIPS REC.;SURFACE:BLACK/ZINC		*NOT available in DP
12	1.0000	PC			SHIELD;CHOKE;SPSU2;DST.NO:003;DPT.NO:03531;(SPSU2-CHOKE-SHIELDING-REVC.DWG)		*NOT available in DP
13	1.0000	PC			SILICA GEL;MASS;20g;SPEC.NO:20QB-BB2001-4		*NOT available in DP
14	5.0000	PC			STUD;DIA:3 MM;LEN:16.5 MM;POB18 STUD1		*NOT available in DP
15	3.0000	PC			STUD;DIA:3 MM;LEN:38.5 MM;BRASS;PITCH:0.5 MM;POBKE STUD M3X33.5		*NOT available in DP
16	5.0000	PC			STUD;DIA:3 MM;LEN:11.5 MM;OVAL;HEXAGON REC.;PITCH:0.5 MM;POBKE SUTD-4		*NOT available in DP
17	0.0300	M			SHRINKING TUBE;BLACK;HEAT SHRINK;LIVE AND NEUTRAL		*NOT available in DP
18	0.2000	M			SHRINKING TUBE;INNER DIA;1mm;SPEC.NO:43217		*NOT available in DP
19	0.1000	M			SHRINKING TUBE;INNER DIA;4mm;SPEC.NO:01098		*NOT available in DP
20	1.0000	PC			WASHER;EXTERNAL TEETH;INNER DIA:4mm;OUTER DIA:7mm;THICKNESS;1mm7		*NOT available in DP
21	1.0000	PC	V97-00001-20100	F97-00001-20100	INSULATION SHEET;BLACK;POBKE INSULATION SHEET-3		
22	1.0000	PC		F97-00001-28173	INSULATION SHEET;BLACK;POBKI PSU INSULATION SHEET		

Ic

	Quantity	Unit	S.Sku	M.Sku	Description	Reference Designators	Notes
1	1.0000	PC	S60-00000-21615	C60-00000-21615	IC;AD/DA;LQFP;48;D/A CONVERTER;CS4385-CQZ	[POBKE:3: {1.0}(IC40)]	
2	2.0000	PC		C60-00001-50075	IC;AD/DA;LQFP;PINS;48;M8000 OCTAL AUDIO ADC	[POBKE:3: {2.0}(IC37,IC39)]	
3	53.0000	PC	S73-59458-00508	C73-00000-29050	IC;OPAMP;SMD;SOP;8;BA4580RF	[POBKE:1: {8.0}(IC1-IC8)]	
4	2.0000	PC	S73-58007-22208	C73-58007-22208	IC;OPAMP OPAMP;TL072;SOP;BRAND:ST ONLY	[POBKE:1: {2.0}(IC9-IC10)]	
5	2.0000	PC	S74-00000-29817	C74-00000-29817	IC;POWER-CONVERSION;AIC2354GV5;SOT-23-5;SMD	[POBKE:6: {2.0}(IC11-IC12)]	
6	1.0000	PC	S75-00226-90508	C75-00226-90508	IC;PWM;OB2269C;SOP8	[POBKE:7: {1.0}(IC1)]	
7	2.0000	PC	S77-00000-21793	C77-00000-21793	IC;VOLT.REGULATOR;TO220;5;LM2576T-ADJG	[POBKE:7: {2.0}(IC4-IC5)]	
8	1.0000	PC	S77-00107-03115	C77-00107-03115	IC;VOLT.REGULATOR;LM317HVT;TO220	[POBKE:7: {1.0}(IC3)]	
9	1.0000	PC	S77-00128-03000	C77-00128-03000	IC;VOLT.REGULATOR;ZENERSHUNT.REGULATOR;SOT23;LM431ACM3 /N1	[POBKE:7: {1.0}(IC2)]	
10	2.0000	PC	S77-00128-03001	C77-00128-03001	IC;VOLT.REGULATOR;ADJUSTABLE;SOT223;NCP1117STAT3;SMD	[POBKE:3: {2.0}(IC35-IC36)]	
11	1.0000	PC	S77-00155-03001	C77-00155-03001	IC;VOLT.REGULATOR;ADJUSTABLE;DPAK;NCP1117DTARKG;SMD	[POBKE:3: {1.0}(IC33)]	
12	1.0000	PC	T10-00000-18827	D10-00000-18827	IC;ASIC;MSOP;10;CS2000CP-CZZR	[POBKE:6: {1.0}(IC9)]	
13	4.0000	PC	T12-00000-12043	D12-00000-12043	IC;DIG COMM.;SOIC;8;MLVDS TRANSCEIVER;SMD;SN65MLVD204AD	[POBKE:6: {4.0}(IC3-IC6)]	
14	2.0000	PC	T12-00000-18249	D12-00000-18249	IC;DIG COMM.;QFN;24;SMD;LAN8720A-CP	[POBKE:6: {2.0}(IC1,IC7)]	
15	1.0000	PC	T19-00000-38241	D19-00000-38241	IC;FLASH;SOIC;8;8MBIT SPI FLASH; 2V7-3V6; AT45DB081D-SU	[: {1.0}(IC8)]	
16	1.0000	PC	T19-00037-04631	D19-00037-04631	IC;FLASH;STM32F103RBT6;LQFP64;32-Bit MCU with Flash Memory	[: {1.0}(IC8)]	
17	2.0000	PC	T22-24024-40520	D22-24024-40520	IC;LOGIC;74LVT244;SOP	[POBKE:4: {2.0}(IC1-IC2)]	
18	18.0000	PC	T22-32059-50520	D22-32059-50520	IC;LOGIC;74HCT595;SOP	[POBKE:2: {18.0}(IC41-IC58)]	
19	32.0000	PC	T30-00000-61526	D30-00000-61526	IC;SWITCH/MUPLEX;SMD;SOIC;16;V411	[POBKE:2: {24.0}(IC1-IC24)]	
20	1.0000	PC	T32-00000-18409	D32-00000-18409	IC;EPROM;PROGM;BGA;256;XC3S1400A-4FTG256C;SMD	[POBKE:6: {1.0}(IC10)]	
21	1.0000	PC		D33-00001-23768	IC;MICROCONTROLLER, PROGRAMMED;FIRMWARE SD16(SD8) AT45DB081D-256 V1.0	[POBKE:6: {1.0}(IC8)]	
22	1.0000	PC		D33-00001-27422	IC;MICROCONTROLLER, PROGRAMMED;FIRMWARE SD16(SD8) STM32F103RBT6;V1.0	[POBKE:6: {1.0}(IC2)]	

Led

	Quantity	Unit	S.Sku	M.Sku	Description	Reference Designators	Notes
1	1.0000	PC	U10-00000-04901	E10-00000-04901	LED HIB;3mm0 ROUND;AMBER;BULK;W/RING	[POBKE:4: {1.0}(LD1)]	
2	2.0000	PC	U13-00000-23349	E13-00000-23349	LED;3mm0 ROUND;GREEN/RED;3-PIN; COMMON CATHODE;WHITE DIFFUSED	[POBKE:4: {2.0}(LD2-LD3)]	

Metal Part

	Quantity	Unit	S.Sku	M.Sku	Description	Reference Designators	Notes
1	1.0000	PC	Q62-00001-18552	A62-00001-18552	METAL;COVER;POBK;MATERIAL:SILICON STEEL 0.5mm;PUNCHING AND BENDING;PSU TOP COVER REV.A		
2	1.0000	PC	Q62-00001-18594	A62-00001-18594	METAL;SHIELD;POBK;MATERIAL:TIN PLATE T=0.3 MM;PUNCHING AND BENDING;SHIELDING COVER REV.A		
3	1.0000	PC	Q63-00000-95744	A63-00000-95744	METAL;HEATSINK;POAWZ;MATERIAL:AL 6063;EXTRUSION, CUTTING;X18-HEATSINK01	[POBKE:7: {1.0}{HS3}]	
4	1.0000	PC	Q63-00001-18307	A63-00001-18307	METAL;HEATSINK;POBKE;MATERIAL:AL 6063;EXTRUSION, CUTTING;HEATSINK-1 REV.A	[POBKE:7: {1.0}{HS1}]	
5	1.0000	PC	Q63-00001-18313	A63-00001-18313	METAL;HEATSINK;POBKE;MATERIAL:AL 6063;EXTRUSION, CUTTING;HEATSINK-2 REV.A	[POBKE:7: {1.0}{HS2}]	
6	2.0000	PC	Q65-00001-04055	A65-00001-04055	METAL;HANDLE;POB8;MATERIAL:COPPER;BENDING + MACHINING;PLATING NICKEL;SILVER;HANDLE REV.A		
7	2.0000	PC	Q65-00001-04078	A65-00001-04078	METAL;RACK;POB8;MATERIAL:SECC 2.0;PUNCHING AND BENDING, PAINTING;DARK GRAY METALLIC;SIDE RACK MOUNT REV.A		
8	1.0000	PC	Z02-00001-27398	J02-00001-27398	METAL;COVER;POBKE;MATERIAL:SECC 1.2mm;PUNCHING AND BENDING;PAINTING NORMAL;GRAY DARK;FRONT;A001		
9	1.0000	PC		J02-00001-27995	METAL;COVER;POBKE;MATERIAL:SECC 1.2mm;PUNCHING AND BENDING;PAINTING NORMAL;GRAY DARK;REAR;A002		

Plastic Part

	Quantity	Unit	S.Sku	M.Sku	Description	Reference Designators	Notes
1	2.0000	PC		G51-00001-28386	PLASTIC;FEET;POB8;TPR (Thermoplastic Rubber);INJECTION;MATT;BLACK;SIDE RUBBER BUMPER REV.B		
2	1.0000	PC	W53-00200-11013	G53-00200-11013	PLASTIC;LED SPACER;P0127;MOULDING;GLOSS HIGH;BLACK;VMX SERIES;PC-385;DST.NO:002;DPT.NO:1113;(VMX200-LEDSPACER-REVB.DWG)		
3	2.0000	PC	W53-00200-11127	G53-00200-11127	PLASTIC;SPACER;MOULDING;BLACK;LENGTH:11MM;DST.NO:002;DP T.NO:11127;(R20-ACCESSORY-LEDSPACER-REVB.DWG)		

Plug Socket

	Quantity	Unit	S.Sku	M.Sku	Description	Reference Designators	Notes
1	1.0000	PC	W67-00000-92919	G67-00000-92919	SOCKET;POLES:5;WITH SWITCH;30X41;SWITCH: 94V-0		
2	1.0000	PC	W71-00000-18297	G71-00000-18297	PCB SOCKET;PIN SOCKET;HOUSING;32;ROWS:2;ANGLED;2 MM;SMD	[POBKE:6: {1.0}(X8)]	
3	3.0000	PC	W71-00000-83884	G71-00000-83884	PCB SOCKET;PIN SOCKET;48;ROWS:2;STRAIGHT;2.54 MM	[POBKE:1: {1.0}(X26)]	
4	1.0000	PC	W71-00000-83886	G71-00000-83886	PIN HEAD;48;ROWS:2;STRAIGHT;PITCH:2MM54;10MM5 HEIGHT	[POBKE:2: {1.0}(X3)]	
5	1.0000	PC	W71-00001-18233	G71-00001-18233	PIN HEAD;POLES:32;ROWS:2;STRAIGHT;PITCH:2 MM;24MM HEIGHT	[POBKE:5: {1.0}(X1)]	
6	2.0000	PC	W71-00001-18960	G71-00001-18960	PIN HEADER;POLES:48;ROWS:2;STRAIGHT;PITCH:2.54 MM;5.5MM HEIGHT	[POBKE:2: {2.0}(X1-X2)]	
7	1.0000	PC	W71-23103-04757	G71-23103-04757	WAFER;POLES:3;STRAIGHT;PITCH:2 mm;1 ROW;TYPE:A2006WV-3P	[POBKE:6: {1.0}(X2)]	
8	1.0000	PC	W71-23105-04745	G71-23105-04745	WAFER;POLES:5;STRAIGHT;PITCH:2 mm;1 ROW;TYPE:A2006WV-5P	[POBKE:6: {1.0}(X5)]	
9	1.0000	PC	W71-23110-04749	G71-23110-04749	WAFER;POLES:10;STRAIGHT;PITCH:2 mm;1 ROW;TYPE:A2006WV-10P	[POBKE:3: {1.0}(X4)]	
10	1.0000	PC	W71-23112-04751	G71-23112-04751	WAFER;POLES:12;STRAIGHT;PITCH:2 mm;1 ROW;TYPE:A2006WV-12P	[POBKE:1: {1.0}(X25)]	
11	1.0000	PC	W71-23113-04752	G71-23113-04752	WAFER;POLES:13;STRAIGHT;PITCH:2 mm;1 ROW;TYPE:A2006WV-13P	[POBKE:4: {1.0}(X5)]	
12	1.0000	PC	W71-27102-04450	G71-27102-04450	WAFER;POLES:2;STRAIGHT;PITCH:3.96 mm;1 ROW;J51120-03-S1;NO MIDDLE PIN	[POBKE:7: {1.0}(X1)]	
13	1.0000	PC	W71-27102-04759	G71-27102-04759	WAFER;POLES:2;STRAIGHT;PITCH:3.96 mm;1 ROW;J51120-02	[POBKE:4: {1.0}(X6)]	
14	1.0000	PC	W71-43105-05997	G71-43105-05997	PLUG;HOUSING;POLES:5;ROWS:1;STRAIGHT;PITCH:2mm;TYP:A2008		
15	1.0000	PC	W71-43110-06002	G71-43110-06002	PLUG;HOUSING;POLES:10;ROWS:1;STRAIGHT;PITCH:2mm;TYP:A2008		
16	1.0000	PC	W71-43112-06004	G71-43112-06004	PLUG;HOUSING;POLES:12;ROWS:1;STRAIGHT;PITCH:2mm;TYP:A2008		
17	1.0000	PC	W71-43113-06005	G71-43113-06005	PLUG;HOUSING;POLES:13;ROWS:1;STRAIGHT;PITCH:2mm;TYP:A2008		
18	1.0000	PC	W71-47102-05844	G71-47102-05844	PLUG;HOUSING;A3963H02;PITCH:3mm96;POLES:2;ROWS:1;UL94-V0;STRAIGHT		
19	1.0000	PC	W71-47102-06755	G71-47102-06755	PLUG;HOUSING;P:3mm96;STRAIGHT;ROWS:1;POLES:2;TYP:JS4008		
20	1.0000	PC	W71-47103-05845	G71-47103-05845	PLUG;HOUSING;A3963H02;PITCH:3mm96;POLES:3;ROWS:1;UL94-V0;STRAIGHT		
21	40.0000	PC	W71-80000-05663	G71-80000-05663	BD-IN-CONN;TERMINAL;SAN-002T-0.8A		
22	1.0000	PC	W71-83105-05647	G71-83105-05647	BOARD-IN-CONNECTOR;POLES:5;ROWS:1;STRAIGHT;PITCH:2 mm		
23	1.0000	PC	W71-83110-05654	G71-83110-05654	BOARD-IN-CONNECTOR;POLES:10;ROWS:1;STRAIGHT;PITCH:2 mm		
24	1.0000	PC	W71-83112-05657	G71-83112-05657	BOARD-IN-CONNECTOR;POLES:12;ROWS:1;STRAIGHT;PITCH:2 mm		
25	1.0000	PC	W71-83113-05818	G71-83113-05818	BOARD-IN-CONNECTOR;POLES:13;ROWS:1;STRAIGHT;PITCH:2 mm		

Power Supply

	Quantity	Unit	S.Sku	M.Sku	Description	Reference Designators	Notes
1	1.0000	PC	Z63-00001-20330	J63-00001-20330	TRANSFORMER;POBKI;15;ER3542 L;760UH+/-10%@1KHz;0.25V		
2	1.0000	PC	Z63-00001-20331	J63-00001-20331	TRANSFORMER;POBKI;15;ER3542 L;760UH+/-10%@1 KHz;0.25V DX	[POBKE:7: {1.0}(TR1)]	
3	2.0000	PC	Z66-00000-12096	J66-00000-12096	TRAFO:PULSE;POACI;VoIP MAGNETIC MODULE;H2006ANL;SMD	[POBKE:5: {2.0}(TR1-TR2)]	

Quarz

	Quantity	Unit	S.Sku	M.Sku	Description	Reference Designators	Notes
1	1.0000	PC	X64-00000-18819	H64-00000-18819	QUARZ;OSCILLATOR;16 MHz;SMD;3.3V;50PPM;SIZE:7X5X1.5	[POBKE:6: {1.0}(Q1)]	
2	1.0000	PC	X65-40471-20000	H65-40471-20000	QUARZ;RESONATOR;12MHz;HC49/4H FUNDAMENTAL	[POBKE:6: {1.0}(Q2)]	

Resistor

	Quantity	Unit	S.Sku	M.Sku	Description	Reference Designators	Notes
1	3.0000	PC			RESISTOR;METAL;470 ohm;0W25;1 %;SMD1206;MET	[POBKE:7: {3.0}(R35,R38,R49)]	*NOT available in DP
2	16.0000	PC			RESISTOR;METAL;110 ohm;0W100;1 %;100 PPM;SMD603;MET	[POBKE:2: {16.0}(R139,R143,R145,R149,R151,R155,R157,R161,R165,R167,R171,R173,R177,R179,R183,R232)]	*NOT available in DP
3	32.0000	PC			RESISTOR;METAL;130 ohm;0W100;1 %;100 PPM;SMD603;MET	[POBKE:2: {32.0}(R140-R141,R146-R147,R152-R153,R158-R159,R162-R163,R168-R169,R174-R175,R180-R181,R186-R187,R192-R193,R198-R199,R204-R205,R208-R209,R214-R215,R220-R221,R226-R227)]	*NOT available in DP
4	16.0000	PC			RESISTOR;METAL;15 ohm;0W100;1 %;100 PPM;SMD603;MET	[POBKE:2: {16.0}(R280,R284,R286,R290,R292,R296,R298,R302,R306,R308,R312,R314,R318,R320,R324,R328)]	*NOT available in DP
5	1.0000	PC			RESISTOR;METAL;23.7 kohm;0W100;1 %;SMD805;MET	[POBKE:7: {1.0}(R34)]	*NOT available in DP
6	32.0000	PC			RESISTOR;METAL;62 ohm;0W100;1 %;100 PPM;SMD603;MET	[POBKE:2: {32.0}(R138,R142,R144,R148,R150,R154,R156,R160,R164,R166,R170,R172,R176,R178,R182,R184,R188,R190,R194,R196,R200,R202,R206,R210,R212,R216,R218,R222,R224,R228,R230-R231)]	*NOT available in DP
7	16.0000	PC			RESISTOR;METAL;11 ohm;0W0625;1 %;200 PPM;SMD603;THICK FILM	[POBKE:2: {16.0}(R233,R237,R239,R243,R245,R249,R251,R256,R260,R262,R266,R268,R272,R274,R278,R326)]	*NOT available in DP
8	16.0000	PC			RESISTOR;METAL;27 ohm;0W0625;1 %;200 PPM;SMD603;THICK FILM	[POBKE:2: {16.0}(R234,R238,R240,R244,R246,R250,R252,R257,R261,R263,R267,R269,R273,R275,R279,R327)]	*NOT available in DP
9	32.0000	PC			RESISTOR;THICK FILM;6K8 ohm; 1%;SMD1210	[POBKE:2: {32.0}(R101-R132)]	*NOT available in DP
10	4.0000	PC			RESISTOR;CARBON;33ohm;5%;0W063;SMD603	[POBKE:6: {2.0}(R18-R19)]	*NOT available in DP
11	10.0000	PC			RESISTOR;CARBON;100ohm;5%;0W063;SMD603	[POBKE:6: {1.0}(R43)]	*NOT available in DP
12	2.0000	PC			RESISTOR;CARBON;330ohm;5%;0W063;SMD603	[POBKE:4: {2.0}(R41-R42)]	*NOT available in DP
13	6.0000	PC			RESISTOR;CARBON;1Kohm;5%;0W063;SMD603	[POBKE:6: {2.0}(R20-R21)]	*NOT available in DP
14	1.0000	PC			RESISTOR;CARBON;1Kohm5;5%;0W063;SMD603	[POBKE:6: {1.0}(R7)]	*NOT available in DP
15	1.0000	PC			RESISTOR;CARBON;2Kohm2;5%;0W063;SMD603	[POBKE:6: {1.0}(R5)]	*NOT available in DP
16	1.0000	PC			RESISTOR;CARBON;3Kohm3;5%;0W063;SMD603	[POBKE:6: {1.0}(R6)]	*NOT available in DP
17	1.0000	PC			RESISTOR;CARBON;3Kohm9;5%;0W063;SMD603	[POBKE:4: {1.0}(R46)]	*NOT available in DP
18	6.0000	PC			RESISTOR;CARBON;4Kohm7;5%;0W063;SMD603	[POBKE:5: {2.0}(R1-R2)]	*NOT available in DP
19	4.0000	PC			RESISTOR;CARBON;5Kohm1;5%;0W063;SMD603	[POBKE:4: {4.0}(R9,R19,R30,R38)]	*NOT available in DP
20	38.0000	PC			RESISTOR;CARBON;10Kohm;5%;0W063;SMD603	[POBKE:6: {2.0}(R16-R17)]	*NOT available in DP
21	16.0000	PC			RESISTOR;CARBON;20Kohm;5%;0W063;SMD603	[POBKE:1: {8.0}(R81,R84,R87,R90,R93,R96,R99,R102)]	*NOT available in DP
22	18.0000	PC			RESISTOR;CARBON;47Kohm;5%;0W063;SMD603	[POBKE:2: {16.0}(R458-R473)]	*NOT available in DP
23	1.0000	PC			RESISTOR;CARBON;100Kohm;5%;0W063;SMD603	[POBKE:3: {1.0}(R344)]	*NOT available in DP
24	3.0000	PC			RESISTOR;METAL;22ohm;1%;0W063;SMD603	[POBKE:5: {3.0}(R12-R14)]	*NOT available in DP
25	16.0000	PC			RESISTOR;METAL;33ohm;1%;0W063;SMD603	[POBKE:2: {16.0}(R281,R285,R287,R291,R293,R297,R299,R303,R307,R309,R313,R315,R319,R321,R325,R329)]	*NOT available in DP
26	16.0000	PC			RESISTOR;METAL;51 ohm;1%;0W063;SMD603	[POBKE:3: {16.0}(R145,R157,R159,R169,R173,R182,R187,R199,R201,R211,R215,R223,R229,R241,R243,R252)]	*NOT available in DP
27	48.0000	PC			RESISTOR;METAL;120ohm;1%;0W063;SMD603	[POBKE:2: {16.0}(R185,R189,R191,R195,R197,R201,R203,R207,R211,R213,R217,R219,R223,R225,R229,R255)]	*NOT available in DP
28	16.0000	PC			RESISTOR;METAL;390ohm;1%;0W063;SMD603	[POBKE:2: {16.0}(R235-R236,R241-R242,R247-R248,R253-R254,R258-R259,R264-R265,R270-R271,R276-R277)]	*NOT available in DP
29	16.0000	PC			RESISTOR;METAL;470ohm;1%;0W063;SMD603	[POBKE:2: {16.0}(R282-R283,R288-R289,R294-R295,R300-R301,R304-R305,R310-R311,R316-R317,R322-R323)]	*NOT available in DP

	Quantity	Unit	S.Sku	M.Sku	Description	Reference Designators	Notes
30	48.0000	PC			RESISTOR;SMD;METAL;910ohm;1%;0W063;SMD603	[POBKE:3: {48.0}(R25,R32,R52,R63-R64,R72-R73,R84,R88,R98,R107,R115,R119,R129-R130,R144,R146,R149,R152,R158,R160,R163,R168,R170,R174,R177,R181,R186,R188,R191,R198,R200,R202,R204,R210,R212,R216,R219,R222,R228,R230,R233,R240,R242,R244-R245,R251,R377)]	*NOT available in DP
31	48.0000	PC			RESISTOR;METAL;1Kohm;1%;0W063;SMD603	[POBKE:2: {32.0}(R330-R345,R378-R393)]	*NOT available in DP
32	16.0000	PC			RESISTOR;METAL;1Kohm3;1%;0W063;SMD603	[POBKE:3: {16.0}(R1,R4,R7,R10,R13,R16,R19,R22,R26,R28,R34,R37,R40,R43,R46,R49)]	*NOT available in DP
33	2.0000	PC			RESISTOR;METAL;2Kohm;1%;0W063;SMD603	[POBKE:6: {2.0}(R29-R30)]	*NOT available in DP
34	16.0000	PC			RESISTOR;METAL;2Kohm2;1%;0W063;SMD603	[POBKE:3: {16.0}(R2,R6,R8,R12,R14,R18,R20,R24,R30,R35,R39,R41,R45,R47,R51,R99)]	*NOT available in DP
35	16.0000	PC			RESISTOR;METAL;2Kohm67;1%;0W063;SMD603	[POBKE:3: {16.0}(R268,R281,R285,R288,R290,R292,R313,R316,R319,R321,R326,R328,R330-R331,R346,R351)]	*NOT available in DP
36	16.0000	PC			RESISTOR;SMT;2Kohm7;1%;METAL;0W063;SMD603	[POBKE:3: {16.0}(R143,R150,R156,R164,R172,R178,R185,R192,R197,R206,R214,R220,R227,R234,R239,R248)]	*NOT available in DP
37	32.0000	PC			RESISTOR;METAL;3Kohm30;1%;0W063;SMD603	[POBKE:2: {32.0}(R346-R377)]	*NOT available in DP
38	1.0000	PC			RESISTOR;METAL;3Kohm57;1%;0W063;SMD603	[POBKE:6: {1.0}(R25)]	*NOT available in DP
39	8.0000	PC			RESISTOR;METAL;4Kohm7;1%;0W063;SMD603	[POBKE:1: {8.0}(R153-R154,R165-R166,R168-R169,R172-R173)]	*NOT available in DP
40	32.0000	PC			RESISTOR;METAL;4Kohm99;1%;0W063;SMD603	[POBKE:1: {32.0}(R2,R4,R8,R10,R14,R16,R20,R22,R26,R28,R32,R34,R38,R40,R44,R46,R50-R51,R54-R55,R58-R59,R62-R63,R66-R67,R70-R71,R74-R75,R78-R79)]	*NOT available in DP
41	16.0000	PC			RESISTOR;METAL;9Kohm09;1%;0W063;SMD603	[POBKE:3: {16.0}(R3,R5,R9,R11,R15,R17,R21,R23,R27,R29,R36,R38,R42,R44,R48,R50)]	*NOT available in DP
42	171.0000	PC			RESISTOR;METAL;10Kohm;1%;0W063;SMD603	[POBKE:1: {56.0}(R1,R5-R7,R11-R13,R17-R19,R23-R25,R29-R31,R35-R37,R41-R43,R47-R48,R52,R56,R60,R64,R68,R72,R76,R80,R107-R109,R112-R114,R117-R119,R122-R124,R127-R129,R132-R134,R137-R139,R142-R144)]	*NOT available in DP
43	16.0000	PC			RESISTOR;METAL;11Kohm;1%;0W063;SMD603	[POBKE:3: {16.0}(R269,R283,R287,R289,R291,R293,R315,R320,R327,R329,R347,R349,R352,R354-R355,R410)]	*NOT available in DP
44	2.0000	PC			RESISTOR;METAL;12Kohm1;1%;0W063;SMD603	[POBKE:6: {1.0}(R10)]	*NOT available in DP
45	16.0000	PC			RESISTOR;METAL;12Kohm4;1%;0W063;SMD603	[POBKE:3: {16.0}(R271,R282,R286,R294,R297-R298,R314,R317,R322-R323,R332,R334,R348,R353,R356-R357)]	*NOT available in DP
46	1.0000	PC			RESISTOR;METAL;16Kohm;1%;0W063;SMD603	[POBKE:6: {1.0}(R26)]	*NOT available in DP
47	32.0000	PC			RESISTOR;METAL;20Kohm;1%;0W063;SMD603	[POBKE:3: {32.0}(R33,R53,R55,R59,R61,R65,R67,R71,R75,R77,R79,R83,R86,R89,R91,R97,R100,R104,R108,R110,R114,R117,R120,R122,R128,R131-R133,R138,R140,R367,R370)]	*NOT available in DP
48	32.0000	PC			RESISTOR;METAL;47Kohm;1%;0W063;SMD603	[POBKE:3: {32.0}(R148,R153,R162,R171,R176,R183,R190,R194,R203,R213,R218,R224,R232,R236,R247,R253-R267,R270,R273)]	*NOT available in DP
49	16.0000	PC			RESISTOR;METAL;68Kohm;1%;0W063;SMD603	[POBKE:2: {16.0}(R411,R413,R415,R417,R419,R421,R423,R425,R427,R429,R431,R433,R435,R437,R439,R441)]	*NOT available in DP
50	16.0000	PC			RESISTOR;METAL;180Kohm;1%;0W063;SMD603	[POBKE:3: {16.0}(R142,R154-R155,R165-R166,R179,R184,R195-R196,R207-R208,R225-R226,R237-R238,R249)]	*NOT available in DP
51	4.0000	PC			RESISTOR;METAL;1Mohm;1%;0W063;SMD603	[POBKE:1: {4.0}(R185-R186,R195-R196)]	*NOT available in DP
52	6.0000	PC			RESISTOR;CARBON;0ohm;5%;0W1;SMD805	[POBKE:6: {6.0}(R22-R24,R28,R31,R33)]	*NOT available in DP
53	16.0000	PC			RESISTOR;CARBON;2ohm2;5%;0W1;SMD805	[POBKE:4: {16.0}(R1-R4,R14,R16,R18,R21-R23,R26,R28,R37,R40,R43,R45)]	*NOT available in DP

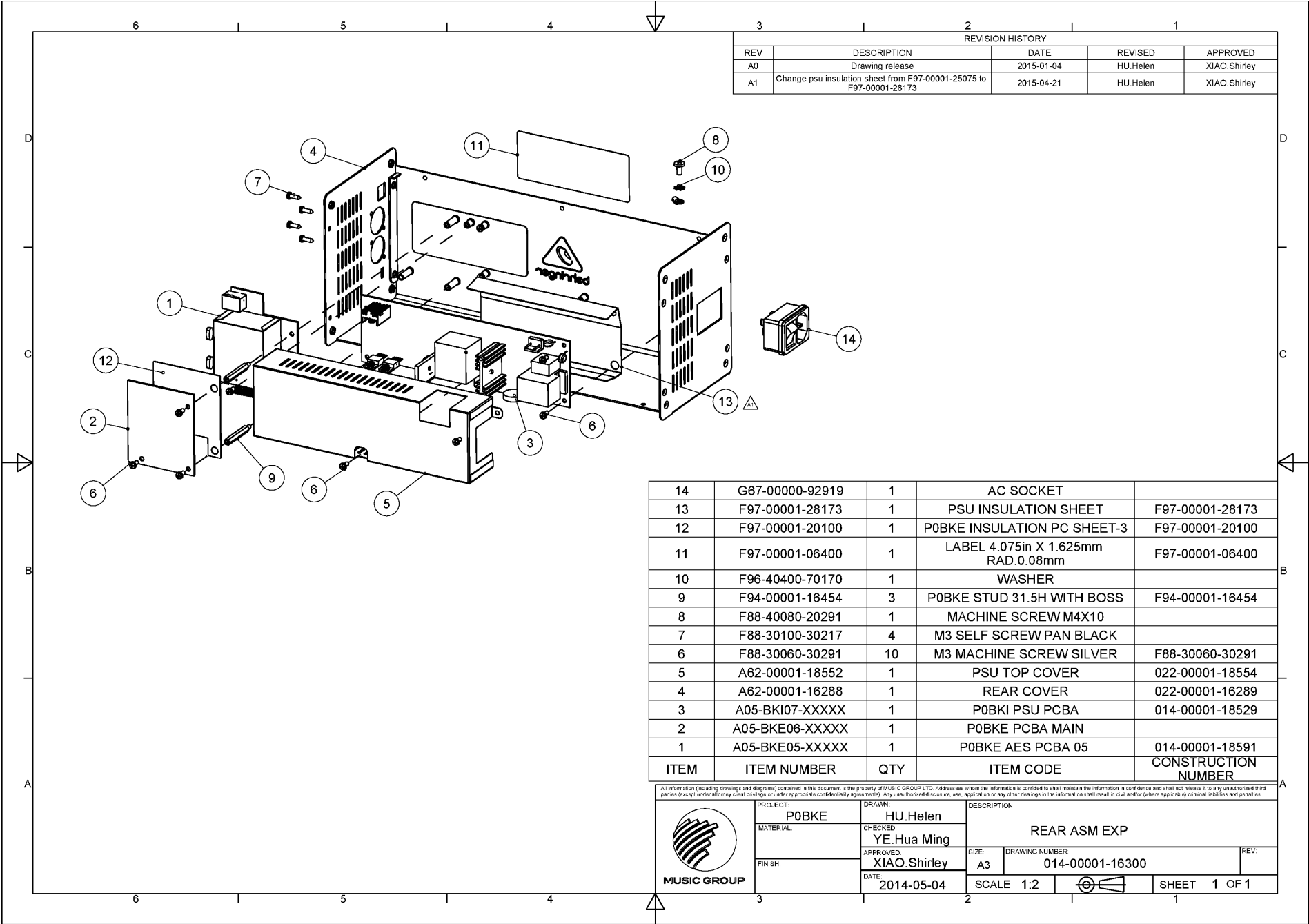
	Quantity	Unit	S.Sku	M.Sku	Description	Reference Designators	Notes
54	16.0000	PC			RESISTOR;CARBON;5ohm1;5%;0W1;SMD805	[POBKE:2: {3.0}(R2-R4)]	*NOT available in DP
55	66.0000	PC			RESISTOR;CARBON;10ohm;5%;0W1;SMD805	[POBKE:1: {32.0}(R155-R164,R170-R171,R197-R212,R229-R232)]	*NOT available in DP
56	3.0000	PC			RESISTOR;CARBON;20ohm;5%;0W1;SMD805	[POBKE:5: {2.0}(R7,R15)]	*NOT available in DP
57	8.0000	PC			RESISTOR;CARBON;75ohm;5%;0W1;SMD805	[POBKE:5: {8.0}(R3-R6,R8-R11)]	*NOT available in DP
58	32.0000	PC			RESISTOR;CARBON;150ohm;5%;0W1;SMD805	[POBKE:1: {32.0}(R82-R83,R85-R86,R88-R89,R91-R92,R94-R95,R97-R98,R100-R101,R103-R106,R110-R111,R115-R116,R120-R121,R125-R126,R130-R131,R135-R136,R140-R141)]	*NOT available in DP
59	16.0000	PC			RESISTOR;CARBON;390ohm;5%;0W1;SMD805	[POBKE:2: {16.0}(R474-R489)]	*NOT available in DP
60	2.0000	PC			RESISTOR;CARBON;470ohm;5%;0W1;SMD805	[POBKE:7: {2.0}(R1,R25)]	*NOT available in DP
61	16.0000	PC			RESISTOR;CARBON;2Kohm2;5%;0W1;SMD805	[POBKE:1: {16.0}(R49,R53,R57,R61,R65,R69,R73,R77,R145-R152)]	*NOT available in DP
62	16.0000	PC			RESISTOR;CARBON;100Kohm;5%;0W1;SMD805	[POBKE:2: {16.0}(R490,R493,R496,R499,R502,R505,R508,R511,R514,R517,R520,R523,R526,R529,R532,R535)]	*NOT available in DP
63	6.0000	PC			RESISTOR;METAL;100ohm;1%;0W1;SMD805	[POBKE:6: {2.0}(R14-R15)]	*NOT available in DP
64	4.0000	PC			RESISTOR;METAL;120ohm;1%;0W1;SMD805	[POBKE:3: {4.0}(R280,R302-R303,R305)]	*NOT available in DP
65	32.0000	PC			RESISTOR;METAL;150ohm;1%;0W1;SMD805	[POBKE:2: {32.0}(R5-R36)]	*NOT available in DP
66	1.0000	PC			RESISTOR;METAL;200ohm;1%;0W1;SMD805	[POBKE:3: {1.0}(R304)]	*NOT available in DP
67	1.0000	PC			RESISTOR;METAL;357ohm;1%;0W1;SMD805	[POBKE:3: {1.0}(R279)]	*NOT available in DP
68	33.0000	PC			RESISTOR;METAL;1Kohm;1%;0W1;SMD805	[POBKE:7: {1.0}(R10)]	*NOT available in DP
69	1.0000	PC			RESISTOR;METAL;2Kohm;1%;0W1;SMD805	[POBKE:7: {1.0}(R12)]	*NOT available in DP
70	1.0000	PC			RESISTOR;METAL;2Kohm20;1%;0W1;SMD805	[POBKE:7: {1.0}(R50)]	*NOT available in DP
71	1.0000	PC			RESISTOR;METAL;4Kohm53;1%;0W1;SMD805	[POBKE:7: {1.0}(R48)]	*NOT available in DP
72	6.0000	PC			RESISTOR;METAL;4Kohm7;1%;0W1;SMD805	[POBKE:7: {2.0}(R26,R33)]	*NOT available in DP
73	5.0000	PC			RESISTOR;METAL;10Kohm;1%;0W1;SMD805	[POBKE:7: {1.0}(R13)]	*NOT available in DP
74	1.0000	PC			RESISTOR;METAL;14Kohm;1%;0W1;SMD805	[POBKE:7: {1.0}(R47)]	*NOT available in DP
75	1.0000	PC			RESISTOR;METAL;24Kohm;1%;0W1;SMD805	[POBKE:7: {1.0}(R6)]	*NOT available in DP
76	1.0000	PC			RESISTOR;METAL;24Kohm9;1%;0W1;SMD805	[POBKE:7: {1.0}(R51)]	*NOT available in DP
77	60.0000	PC			RESISTOR;METAL;PPM100;47Kohm;0W1;1%;SMD603	[POBKE:1: {28.0}(R177-R182,R187-R192,R213-R228)]	*NOT available in DP
78	8.0000	PC			RESISTOR;METAL;49ohm9;1%;PPM50;0W125;SMD603	[POBKE:6: {8.0}(R1-R4,R8-R9,R11-R12)]	*NOT available in DP
79	3.0000	PC			RESISTOR;SMT;0ohm;5%;CARBON;0W25;SMD1206	[POBKE:3: {3.0}(R275,R284,R345)]	*NOT available in DP
80	8.0000	PC			RESISTOR;CARBON;10ohm;5%;0W25;SMD1206	[POBKE:7: {8.0}(R17,R21-R24,R36,R45-R46)]	*NOT available in DP
81	2.0000	PC			RESISTOR;CARBON;100Kohm;5%;0W25;SMD1206	[POBKE:7: {2.0}(R14,R20)]	*NOT available in DP
82	1.0000	PC			RESISTOR;METAL;10ohm;1%;0W25;SMD1206	[POBKE:7: {1.0}(R11)]	*NOT available in DP
83	1.0000	PC			RESISTOR;METAL;240ohm;1%;0W25;SMD1206	[POBKE:7: {1.0}(R37)]	*NOT available in DP
84	2.0000	PC			RESISTOR;METAL;1Kohm;1%;0W25;SMD1206	[POBKE:7: {2.0}(R43-R44)]	*NOT available in DP
85	1.0000	PC			RESISTOR;METAL;1Kohm5;1%;0W25;SMD1206	[POBKE:7: {1.0}(R53)]	*NOT available in DP
86	1.0000	PC			RESISTOR;SMD;METAL;2Kohm;1%;0W25;SMD1206	[POBKE:7: {1.0}(R40)]	*NOT available in DP
87	6.0000	PC			RESISTOR;METAL;3Kohm;1%;0W25;SMD1206	[POBKE:7: {6.0}(R18-R19,R27-R28,R41-R42)]	*NOT available in DP
88	1.0000	PC			RESISTOR;METAL;6kohm81;1%;METAL;0W25;SMD1206	[POBKE:7: {1.0}(R39)]	*NOT available in DP
89	1.0000	PC			RESISTOR;METAL;10Kohm;1%;0W25;SMD1206	[POBKE:7: {1.0}(R9)]	*NOT available in DP
90	3.0000	PC			RESISTOR;SMD;METAL;150Kohm;1%;0W25;SMD1206	[POBKE:7: {3.0}(R3-R5)]	*NOT available in DP
91	4.0000	PC			RESISTOR;SMT;470Kohm;5%;METAL;0W25;SMD1206	[POBKE:7: {4.0}(R29-R32)]	*NOT available in DP
92	1.0000	PC			RESISTOR;THICK FILM;22ohm;5%;0W25;SMD1206	[POBKE:7: {1.0}(R8)]	*NOT available in DP
93	1.0000	PC	Y04-05000-05423	I04-05000-05423	THERMISTOR;NTC;5ohm;+/-20%6A;DIA:15mm;PITCH:7mm5;(THINKING SCK15056MSY)	[POBKE:7: {1.0}(R2)]	
94	1.0000	PC			RESISTOR;METAL;0.27 ohm;2W;1 %;T/B;T73	[POBKE:7: {1.0}(R15)]	*NOT available in DP
95	1.0000	PC			RESISTOR;METAL;47Kohm;5%;2W;LEAD WIRE	[POBKE:7: {1.0}(R16)]	*NOT available in DP

Switch

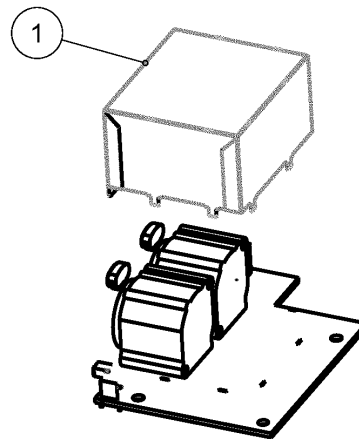
	Quantity	Unit	S.Sku	M.Sku	Description	Reference Designators	Notes
1	1.0000	PC	Y86-00001-04289	I86-00001-04289	SWITCH;SLIDE;2P;3T;LOCKING;12;SK-23D03; SHAFT: 5MM	[POBKE:5: {1.0}(SW1)]	

Transistor

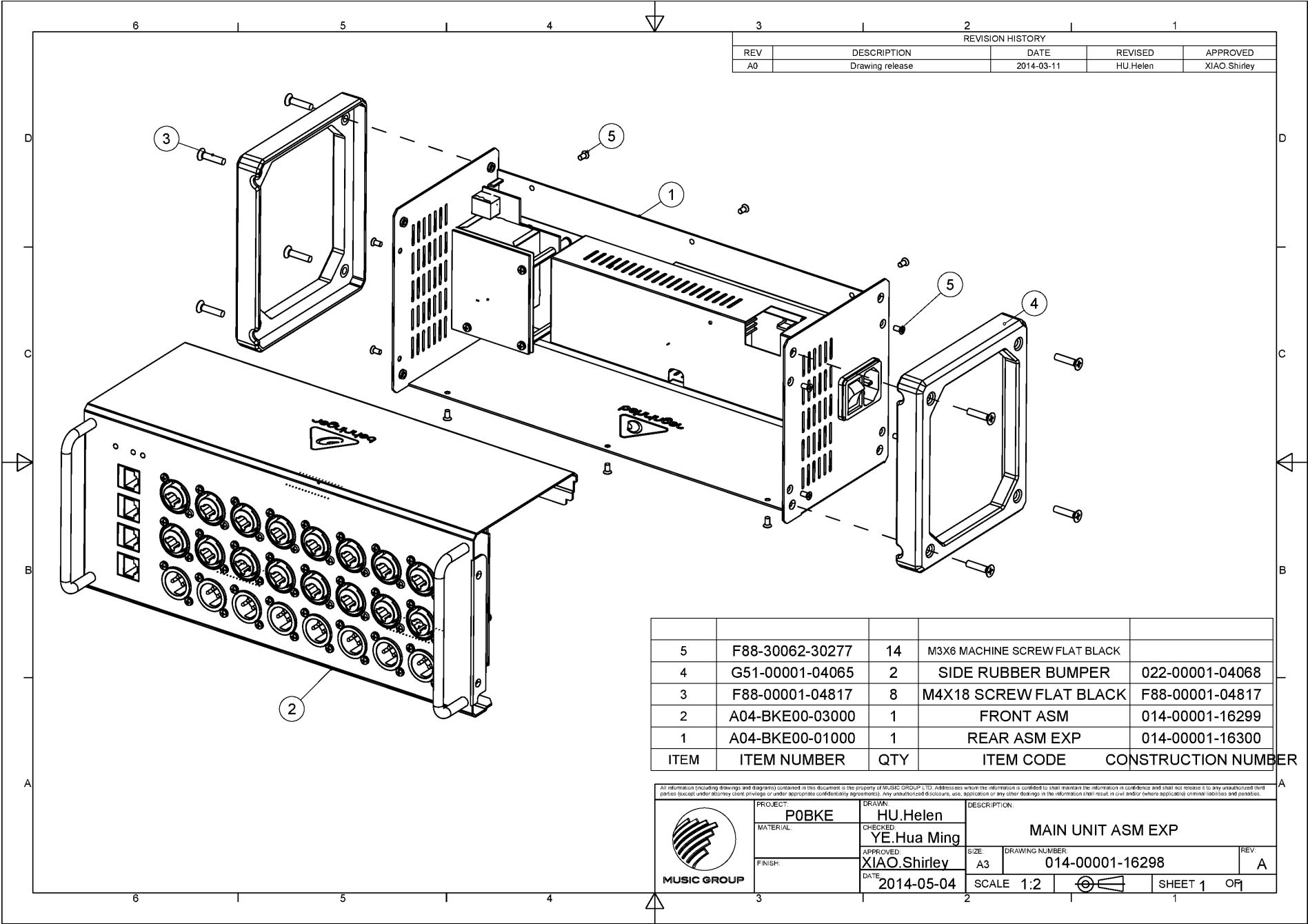
	Quantity	Unit	S.Sku	M.Sku	Description	Reference Designators	Notes
1	32.0000	PC			TRANSISTOR;TO-236MOD;SMD;PINS:3;2SC3324BL	[POBKE:2: {32.0}(T1-T32)]	*NOT available in DP
2	1.0000	PC			TRANSISTOR;TO220F;3;MOSFET;N-CH;800V;7.4A;AOTF8N80	[POBKE:7: {1.0}(T1)]	*NOT available in DP
3	4.0000	PC			TRANSISTOR;BC846B;SOT;SMD	[POBKE:4: {4.0}(T2,T4,T6,T8)]	*NOT available in DP
4	4.0000	PC			TRANSISTOR;BC856B;SOT;SMD	[POBKE:4: {4.0}(T1,T3,T5,T7)]	*NOT available in DP
5	18.0000	PC			TRANSISTOR;MBTA06;SOT	[POBKE:2: {16.0}(T33-T48)]	*NOT available in DP
6	18.0000	PC			TRANSISTOR;MBTA56;SOT	[POBKE:2: {16.0}(T49-T64)]	*NOT available in DP
7	2.0000	PC			TRANSISTOR;MMBT3904LT1;SOT23;SMD	[POBKE:3: {2.0}(T1,T4)]	*NOT available in DP
8	16.0000	PC			TRANSISTOR;SST113;SOT	[POBKE:1: {16.0}(T1-T16)]	*NOT available in DP

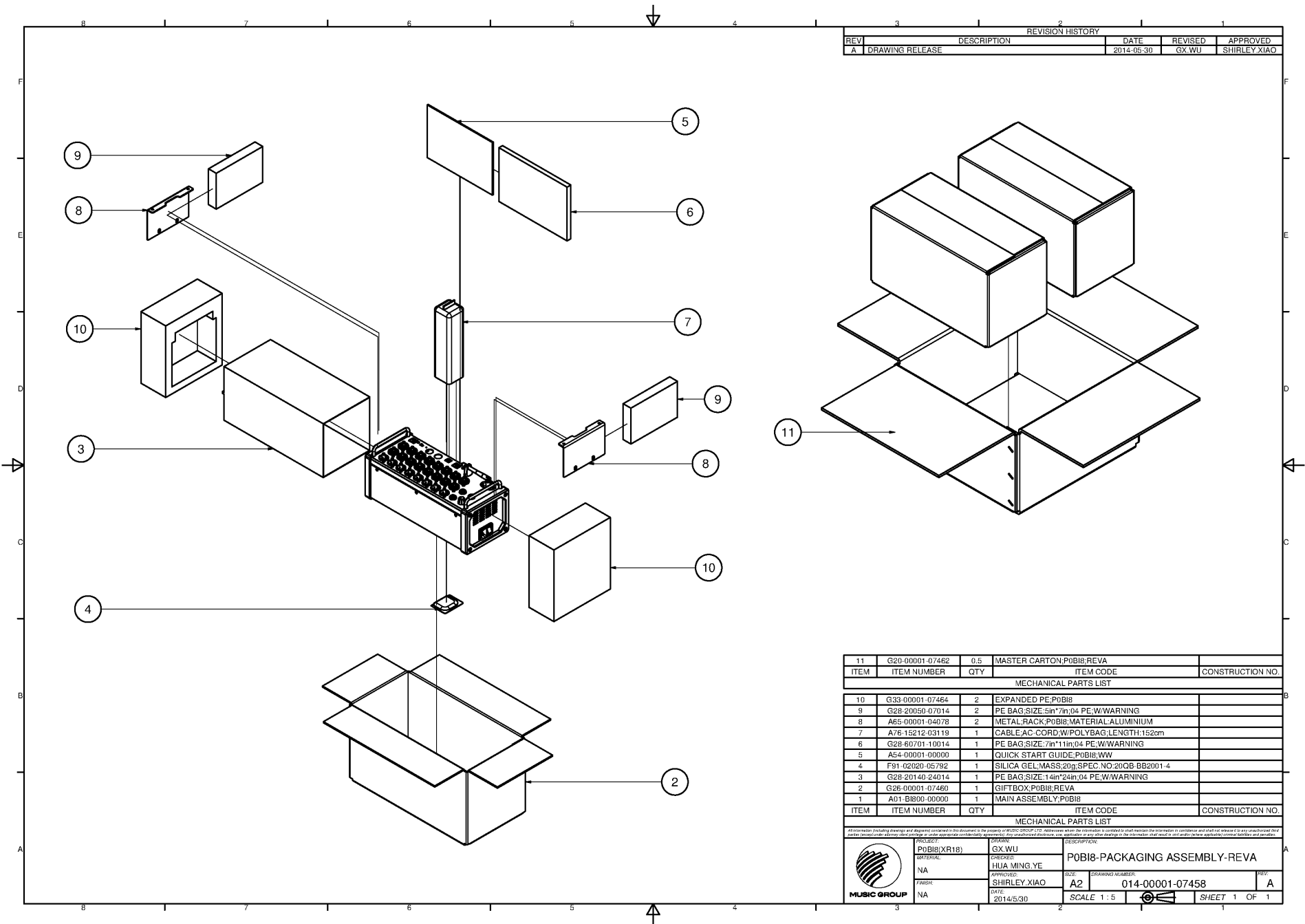


REVISION HISTORY				
REV	DESCRIPTION	DATE	REVISED	APPROVED
A0	Drawing release	2014-10-09	HU.Helen	XIAO.Shirley



1	A62-00001-18594	1	SHIELDING COVER	022-00001-18595
ITEM	ITEM NUMBER	QTY	ITEM CODE	CONSTRUCTION NUMBER
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 MUSIC GROUP	PROJECT:	DRAWN:	DESCRIPTION:	
	P0BKE	HU.Helen		
	MATERIAL:	CHECKED:	P0BKE_PCB05-ASM	
		YE.Hua Ming		
	FINISH:	APPROVED:	SIZE:	DRAWING NUMBER:
		XIAO.Shirley	A4	014-00001-18591
		DATE:	SCALE	REV:
		2014-09-01	1:2	A
				SHEET 1 OF 1

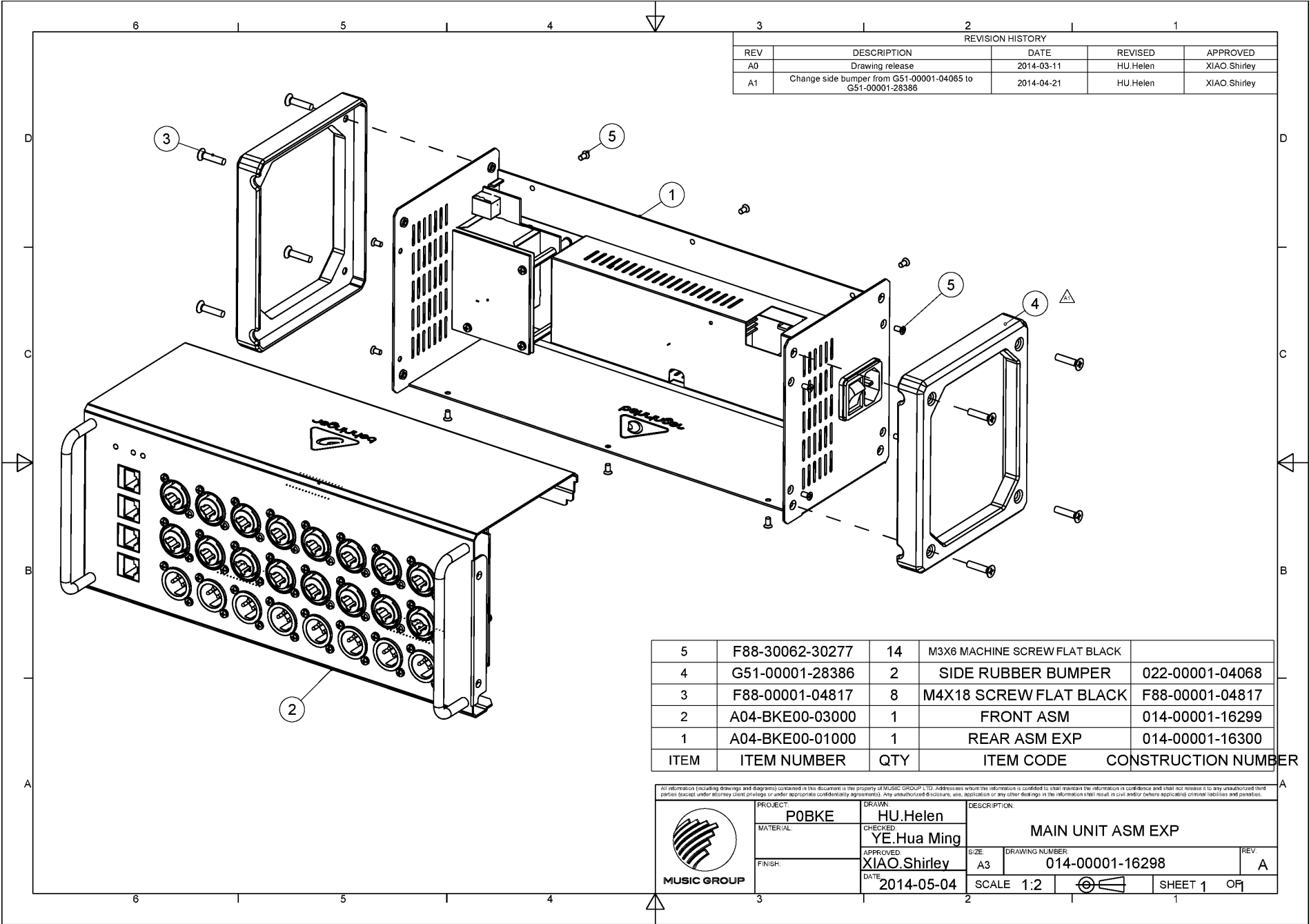


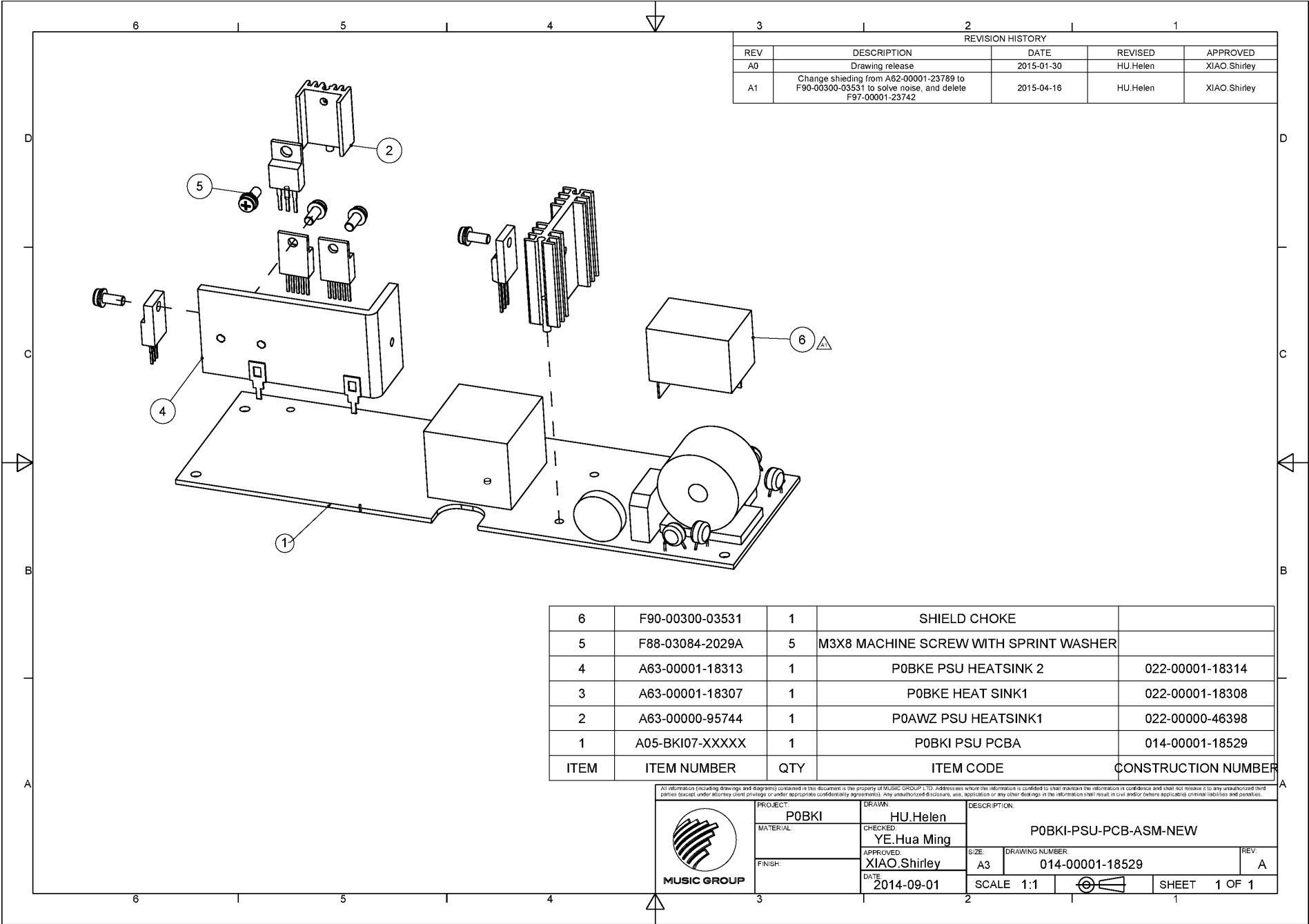


REVISION HISTORY				
REV	DESCRIPTION	DATE	REVISED	APPROVED
A	DRAWING RELEASE	2014-05-30	GX.WU	SHIRLEY.XIAO

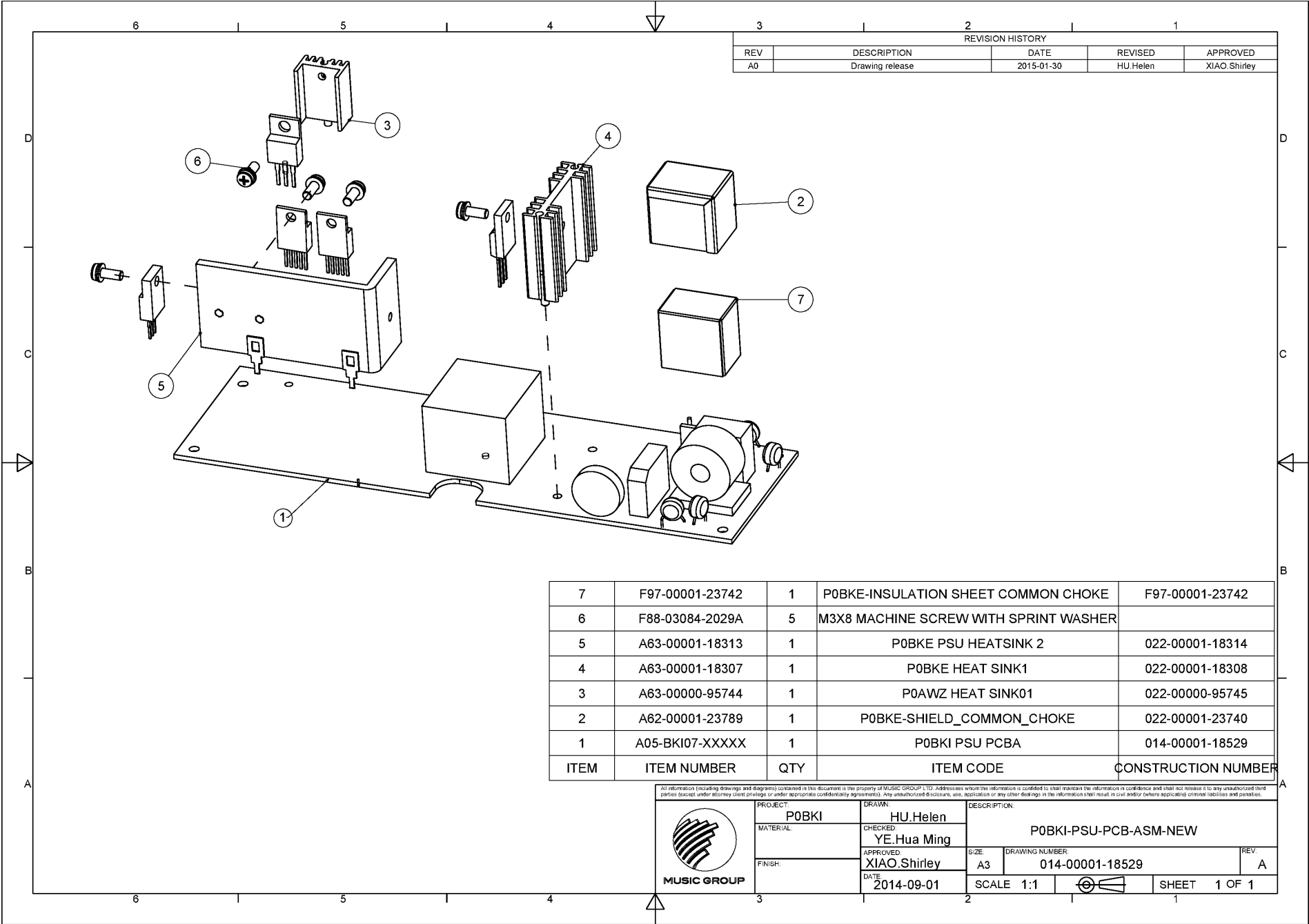
ITEM	ITEM NUMBER	QTY	ITEM CODE	CONSTRUCTION NO.
MECHANICAL PARTS LIST				
11	G20-00001-07462	0.5	MASTER CARTON-POB18-REVA	
10	G33-00001-07464	2	EXPANDED PE-POB18	
9	G28-20050-07014	2	PE BAG;SIZE:5in*7in;04 PE;W/WARNING	
8	A65-00001-04078	2	METAL RACK-POB18;MATERIAL:ALUMINIUM	
7	A76-15212-03119	1	CABLE;AC CORD;W/POLYBAG;LENGTH:152cm	
6	G28-60701-10014	1	PE BAG;SIZE:7in*11in;04 PE;W/WARNING	
5	A54-00001-00000	1	QUICK START GUIDE-POB18;WW	
4	F91-02020-05792	1	SILICA GEL;MASS:20g;SPEC.NO:20QB-BB2001-4	
3	G28-20140-24014	1	PE BAG;SIZE:14in*24in;04 PE;W/WARNING	
2	G26-00001-07460	1	GIFT BOX-POB18-REVA	
1	A01-B1800-00000	1	MAIN ASSEMBLY-POB18	
ITEM	ITEM NUMBER	QTY	ITEM CODE	CONSTRUCTION NO.

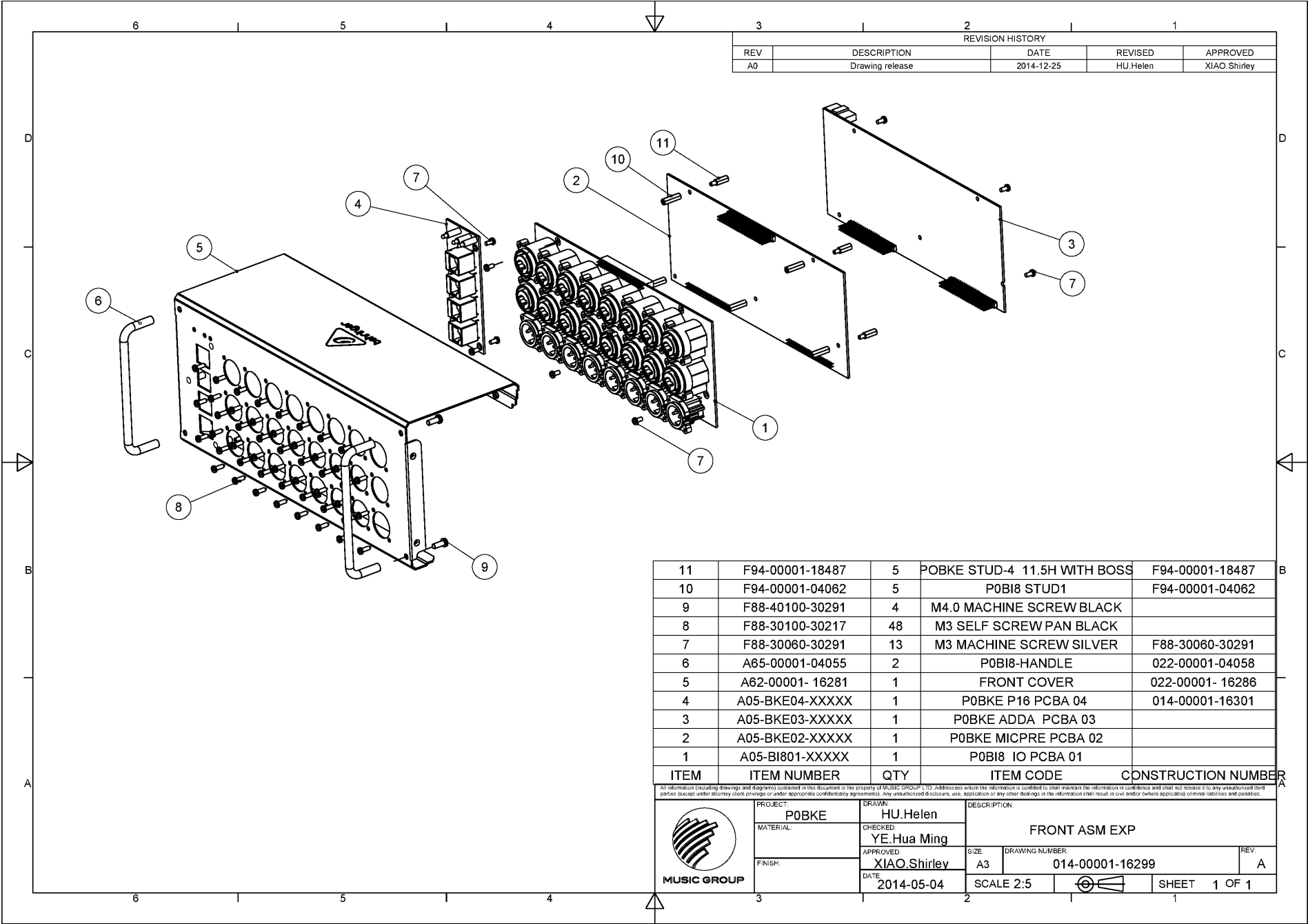
MECHANICAL PARTS LIST				
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PROJECT: POB18(XR18)		DRAWN: GX.WU		
CHECKED: NA		HUA MING.YE		
APPROVED: SHIRLEY.XIAO		DATE: 2014/5/30		
FINISH: NA		DATE: 2014/5/30		
MUSIC GROUP		POB18-PACKAGING ASSEMBLY-REVA		
SIZE: A2		DRAWING NUMBER: 014-00001-07458		
SCALE: 1:5		SHEET 1 OF 1		

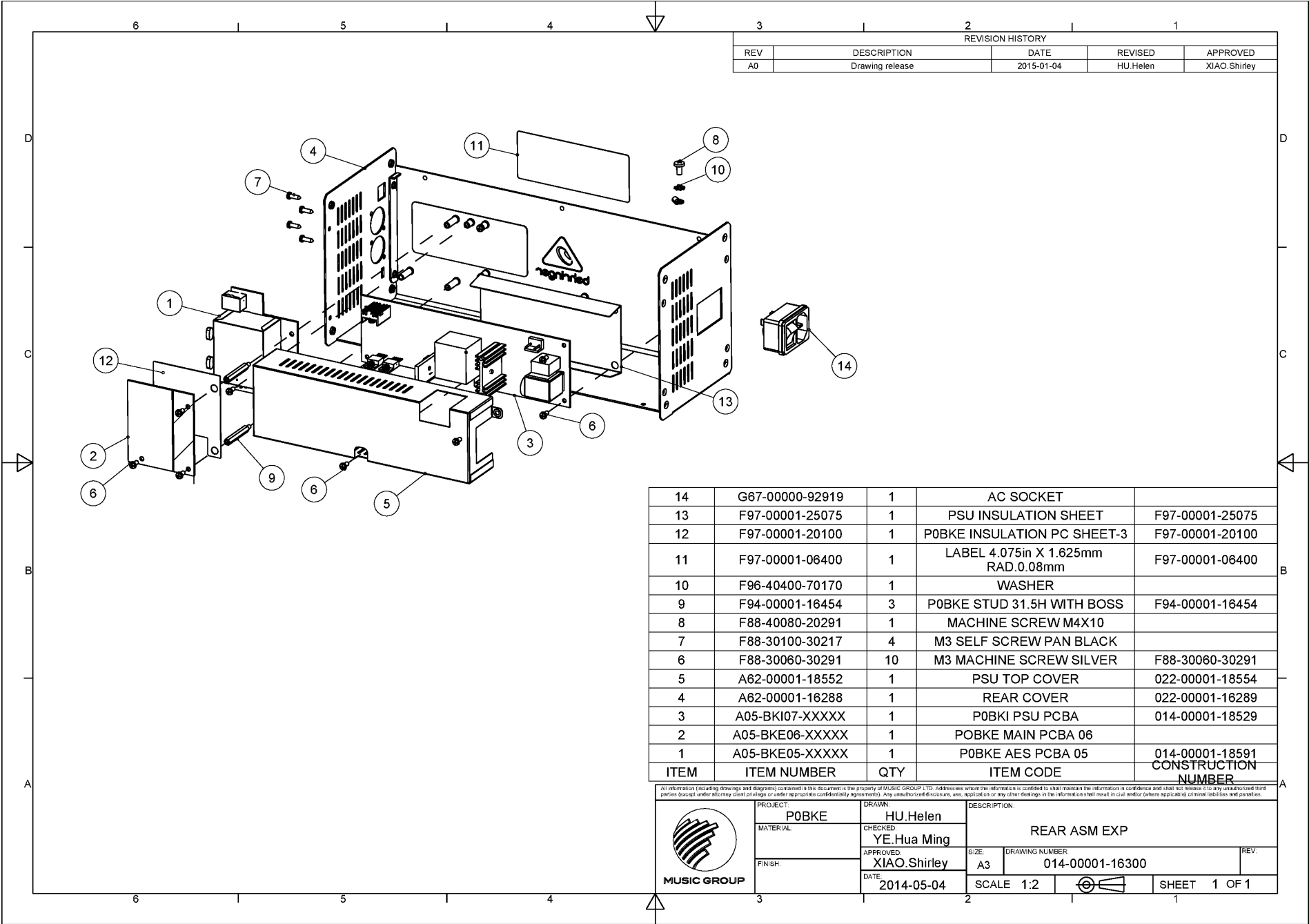




 MUSIC GROUP	PROJECT:	P0BKE	DRAWN:	HU.Helen	DESCRIPTION:				
	MATERIAL:		CHECKED:	YE.Hua Ming					P0BKE-PCB04-ASM
	FINISH:		APPROVED:	XIAO.Shirley	SIZE:	DRAWING NUMBER:			REV:
			DATE:	2014-09-01	A4	014-00001-16301			A
				SCALE	1:1			SHEET 1 OF	









We Hear You