

ServiceManual

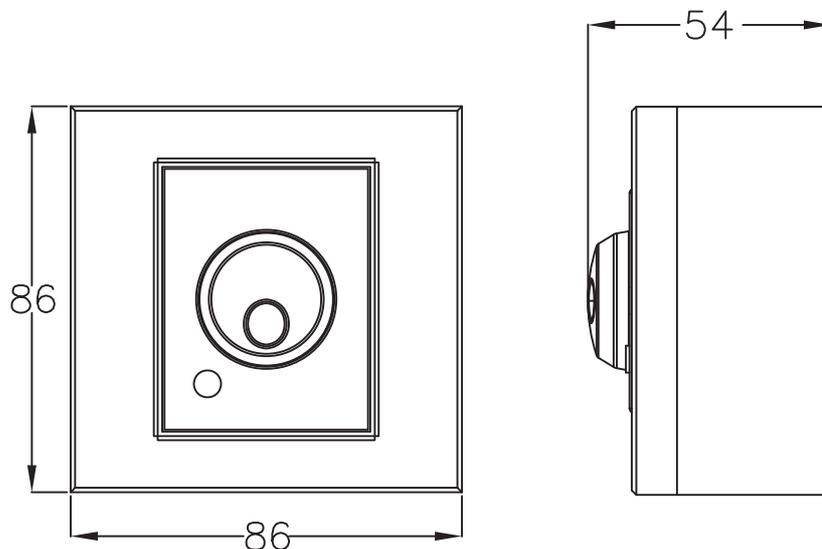
HomeAmp



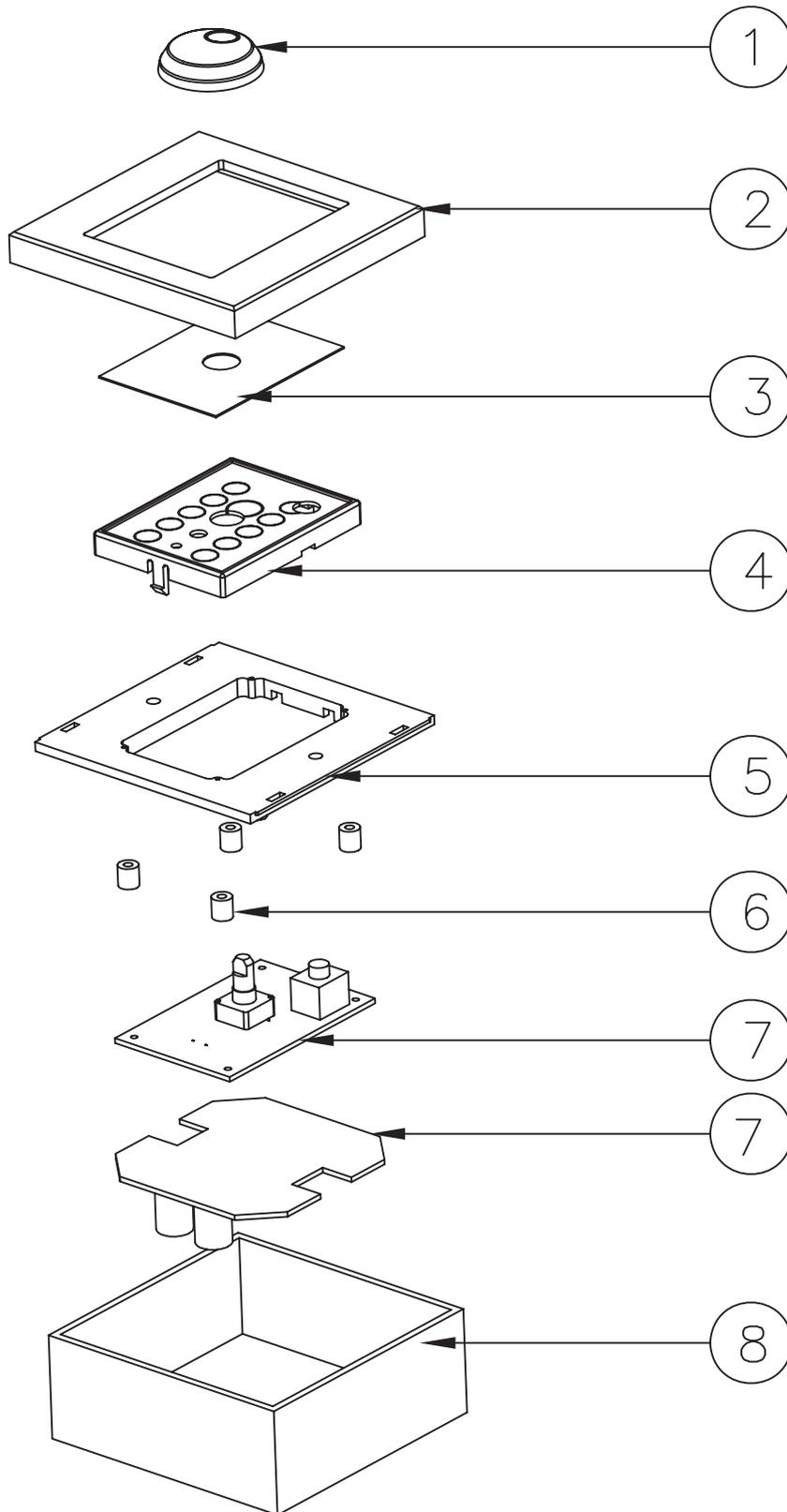
WORKiW PRO[®] 

Technical Specifications & Dimensions

TECHNICAL SPECIFICATIONS	Operating Voltage:	20v to 30Vdc-1A
	Power Outputs:	2 x 6W(20Vdc)
		2x18W(24Vdc)
		2x20W(27Vdc)
		2x25W(30Vdc)
	Minimum Load:	4 Ω
	Sensitivity:	0,7 V _{RMS}
	Gain:	20 dB
	SNR(THD+N<1%)	99 dB
	THD+N(4 Ω/1kHz/10W)	0,08%
	THD+N(8 Ω/1kHz/10W)	0,08%
Input:	Terminal block(f)-Minijack 3.5mm	
Output:	Terminal block	
PHYSICAL SPECIFICATIONS	Dimensions:	86 x 86 x 55mm
	Weight:	1 Kg.



Complete Exploded View



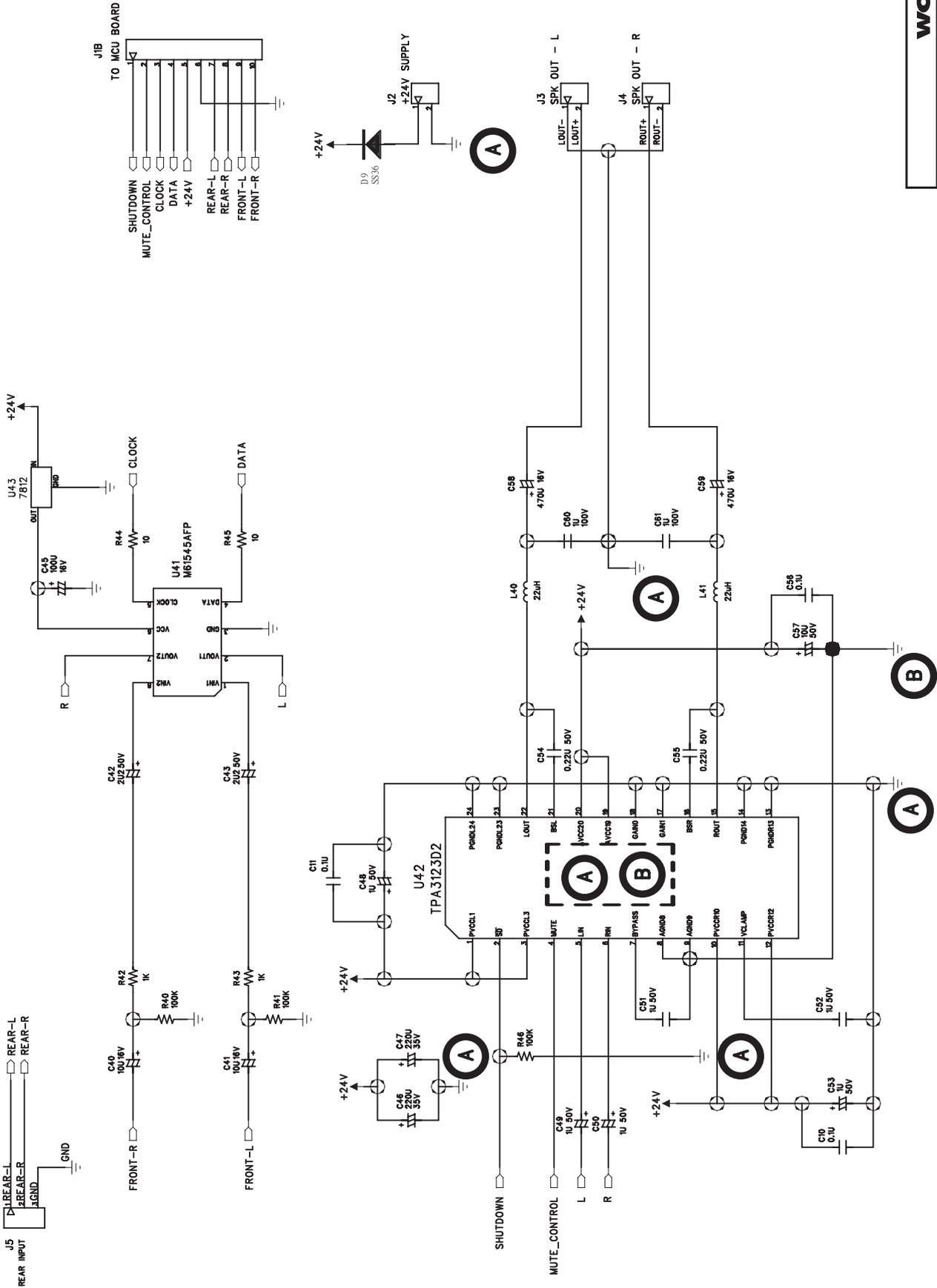
Exploded View (Part List)

Item	Part Number	Description	Qty
1	91WCA001	Knob	1
2	91WCA002	Frontal Panel	1
3	91WCA003	Label	1
4	61-500-0098-00	Cover of ControlPanel	1
5	23-001-0648-00	Chassis	1
6	25-006-0068-00	Spacer	4
7	91WCA003	Complete PCB ASSY HomeAmp-MCB	1
8	91WCA000	Cabinet (iWB-1)	1

Spare Parts

Item	Part Number	Description	Qty
1	91WCA001	Knob	1
2	91WCA002	Frontal Panel	1
3	91WCA003	Label	1
7	91WCA003	ASSY HomeAmp-MCB	1
8	91WCA000	Cabinet (iWB-1)	1

PCBSchematicDiagramforASSYHomeAmp-MCB1



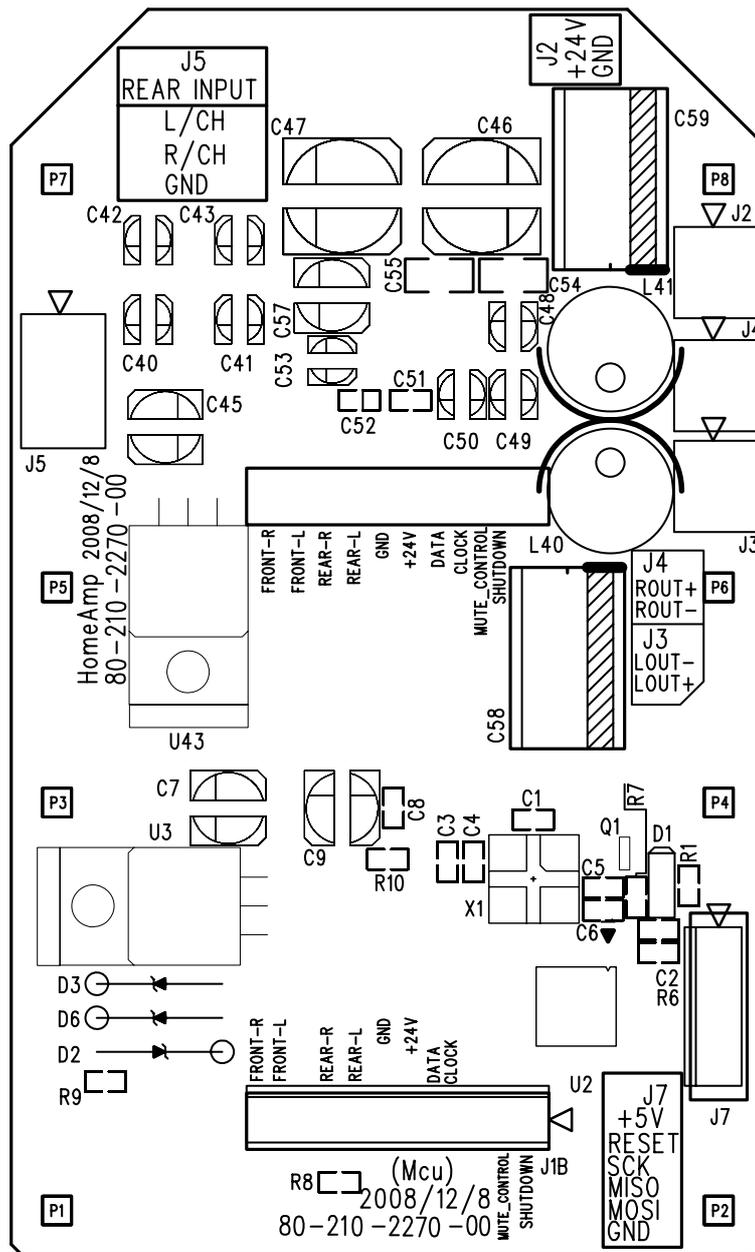
WORKiCA	
Model	IWA-1
Rev.	1.0
Date	01/11

Bill Of Materials for ASSY HomeAmp-MCB

Item	Part Number	Description	Qty	Location
1	01-004-0001-00	Regulator L7805 1.5A SUM	1	U3
2	01-004-0005-00	Regulator L7812 CT 1A	1	U43
3	03-002-0234-00	Electrolytic Capacitor 470 uF/25VI	2	C58,C59
4	04-001-0059-00	Diode Zener 1N5918BST 5.1V 3WDO41	3	D2,D3,D6
5	06-006-0003-00	Encoder	1	SW1
6	07-002-0134-00	Coil RL0708P-330M	2	L40,L41
7	15-002-0040-00	PHONE JACK	1	J6
8	16-001-0568-00	Header 2.54mm PH2.54mm 1x10P 10Pin	1	J1A
9	16-003-0618-01	Terminal	3	J2, J3, J4
10	16-003-0619-01	Terminal	1	J5

Bill Of Materials for SMD-ASSY HomeAmp-MCB

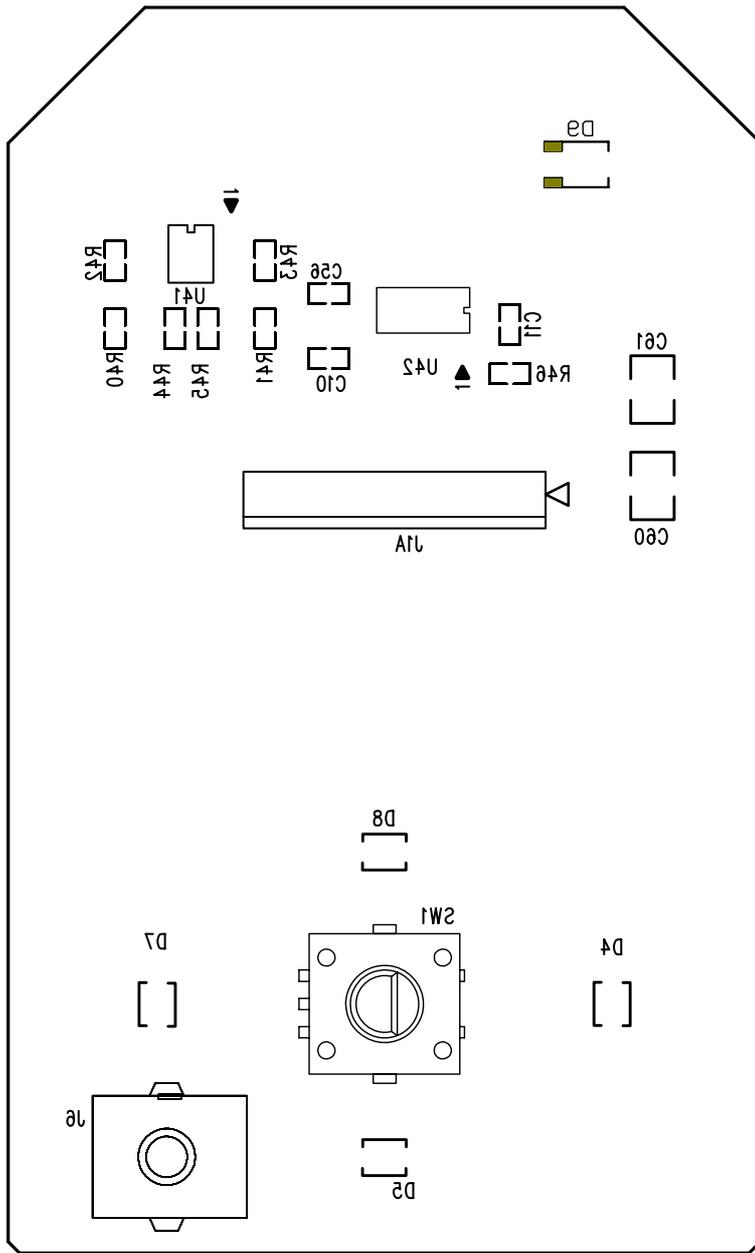
Item	Part Number	Description	Qty	Location
1	01-010-0013-00	IC ATMEGA8A-AUTQFP32ATMEL	1	U2
2	01-014-0070-00	IC TPA3123D2 25-W STEREO	1	U42
3	01-027-0010-00	IC M61545AFP 2-CH Electronic Volume	1	U41
4	02-007-0042-00	Resistance 1k ohm 0603 5%	2	R42, R43
5	02-007-0045-00	Resistance 100k ohm 0603 5%	3	R40,R41,R46
6	02-007-0147-00	Resistance 5.6k ohm 0603 5%	1	R7
7	02-007-0151-00	Resistance 10 ohm 0603 5%	2	R44, R45
8	02-007-0372-00	Resistance 220 ohm 5% 1/16W 0603 Tape	4	R6, R8-R10
9	02-007-0444-00	Resistance 30k ohm 5% 1/16W 0603 Tape	1	R1
10	03-009-0044-00	Ceramic Capacitor 0603 B104k500NT104/50V	2	C51, C52
11	03-009-0048-00	Electrolytic Capacitor 10 uF/50V +/-20%	2	C7, C57
12	03-009-0049-00	Electrolytic Capacitor 100 uF/16V +/-20%	2	C9, C45
13	03-009-0050-00	Electrolytic Capacitor 1 uF/50V +/-20%	3	C48-C50
14	03-009-0075-00	Ceramic Capacitor 0.1uF/50V +/-20%Y5V0603	5	C5, C8, C10 C11, C56
15	03-009-0100-00	Ceramic Capacitor 0.22uF/25V+/-10%X7R1206	2	C54, C55
16	03-009-0113-00	Cer.Capac. 0603B103K500NT10nF/50V+/-10%	1	C6
17	03-009-0136-00	Electrolytic Capacitor 10uF/16V +/-20% 4x5.4vs	2	C40, C41
18	03-009-0159-00	Electrolytic Capacitor 2.2uF/50V +/-20%	2	C42, C43
19	03-009-0168-00	Ceramic Capacitor 15pF/50V 5% 0603	3	C1, C3, C4
20	03-009-0303-00	Ceramic Capacitor 1uF/100V+/-10%X5R	2	C60, C61
21	03-009-0320-00	Electrolytic Capacitor 220uF/35V +/-20% 105C	2	C46, C47
22	03-009-0361-00	Ceramic Capacitor C1608X7R1C474K 474/16V	1	C2
23	04-006-0003-00	Diode LI4148 Mini-Melf/LL-34 Semtech 2500/R	1	D1
24	04-006-0012-00	Schottky Diode	1	D9
25	05-004-0001-00	Transistor BC857C (3G) PNP	1	O1
26	12-007-0071-00	LED 3528 Amber 1SC3528Y23E0CE01	4	D4,D5,D7,D8
27	14-004-0029-00	Crystal 16.000 MHz	1	X1
28	80-210-2270-00	PCB HomeAmp- MCB	1	



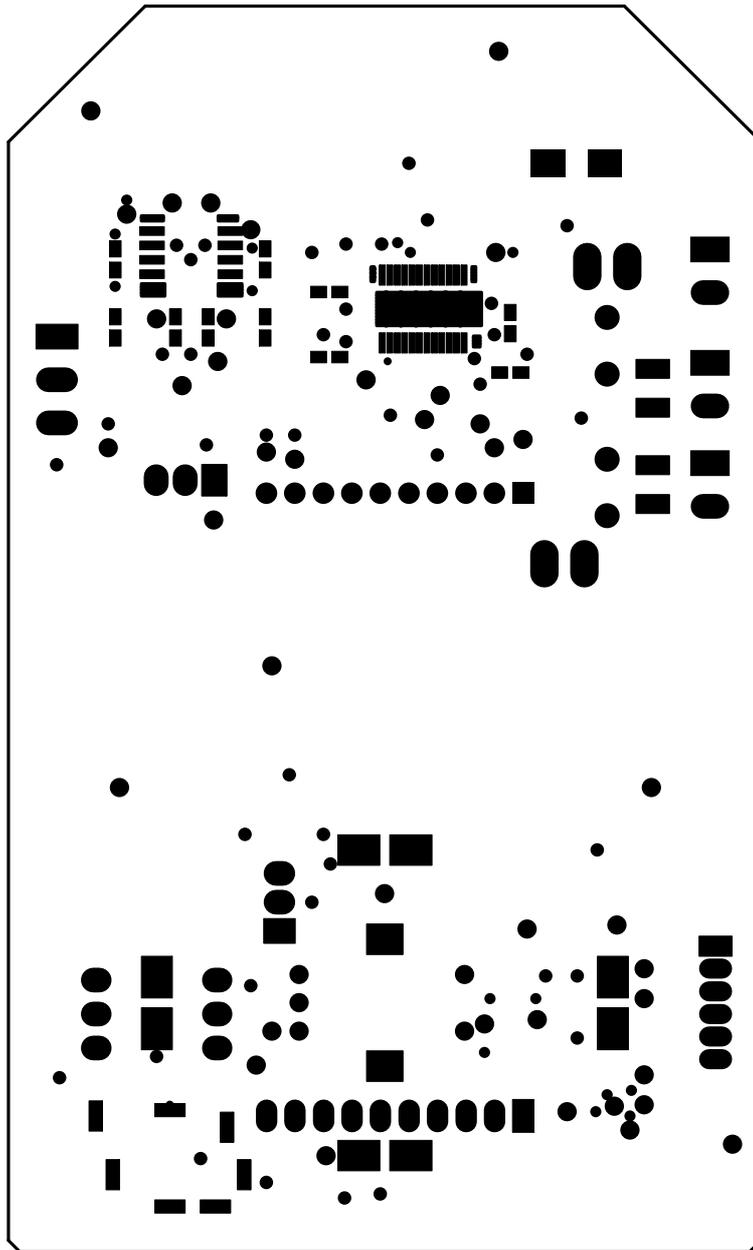
WORK PRO	
Model	HomeAmp (Top Silkscreen)
Rev.	1.0
Date	01/11



WORK <small>PRO</small> 		
Model	HomeAmp (Top Solder Mask)	
Rev.	1.0	
Date	01/11	



WORK <small>PRO</small>		
Model	HomeAmp (Bottom Silkscreen)	
Rev.	1.0	
Date	01/11	



WORK <small>PRO</small> 		
Model	HomeAmp (Bottom Solder Mask)	
Rev.	1.0	
Date	01/11	

WORK^{PRO}® 

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