

Bill Of Materials

Assembly MPM-3A-PREAMP MPM-3 Mic Preamp main board	Revision 01	Artwork A
Variant V00-MPM3A-PREAMP MPM3A-01A transformerless - fit all components as per BOM	Status production	

Part Number	Part	Qty	UM	Ref	Alt Part
AX000363L	Capacitor thru-hole ceramic 0.1uF 50V X7R RB 200mil	4.00	ea	C20-C23	
AX000409X	Capacitor thru-hole ceramic 100pF 50V NPO RB 200mil	1.00	ea	C30	
AX001055H	Capacitor thru-hole ceramic 470pF 100V NPO RB 200mil	2.00	ea	C9, C10	
AX001054Z	Capacitor thru-hole ceramic 47pF 100V NPO RB 200mil	6.00	ea	C1-C6	
AX000613U	Capacitor thru-hole electrolytic 10uF 100V RB 100mil	1.00	ea	C17	
AX000359A	Capacitor thru-hole electrolytic 10uF 25V RB 100mil	6.00	ea	C11-C14, C18, C19	
AX000612M	Capacitor thru-hole electrolytic 10uF 50V NP RB 100mil	2.00	ea	C31, C32	
AX000553Q	Capacitor thru-hole electrolytic 220uF 50V RB 200mil	2.00	ea	C27, C28	
AX001044S	Capacitor thru-hole electrolytic 22uF 50V 105C RB 100mil	3.00	ea	C25, C26, C29	
AX000971M	Capacitor thru-hole electrolytic 3300uF 63V RB 400mil	1.00	ea	C24	
AX001013P	Capacitor thru-hole electrolytic 47uF 100V RB 200mil	2.00	ea	C7, C8	
AX000689N	Connector IC socket 8 pin 300mil DIP DIP-8 300mil	3.00	ea	U1-U3	
AX001041U	Connector ribbon header 10 way dual row 100mil straight 8.5mm PCB socket Header thru-hole 100mil 2x5	1.00	ea	CN8	
AX000444L	Connector SIL header 2 way SIL 100mil polarised vertical pin header Header thru-hole 100mil 1x2	3.00	ea	CN6, CN9, CN10	
AX000034G	Connector SIL header 2 way SIL R/A 100mil polarised pin header Header thru-hole 100mil 1x2	3.00	ea	CN7, CN11, CN12	
AX000030A	Connector SIL header 3 way SIL 100mil vertical pin header Header thru-hole 100mil 1x3	1.00	ea	CN3	
AX000874E	Connector SIL header 3 way SIL R/A 100mil polarised pin header Header thru-hole 100mil 1x3	4.00	ea	CN1, CN2, CN4, CN5	
AX000453K	Diode rectifier thru-hole 400V 1A 1N4004 Axial thru-hole LS 400mil	8.00	ea	D2-D9	
AX000358S	Diode small signal thru-hole Small signal silicon diode, 75V 200mA 1N4148 Axial thru-hole LS 400mil	2.00	ea	D10, D11	
AX001057X	IC linear op amp Balanced audio line driver THAT1646 DIP-8 300mil	1.00	ea	U3	
AX000663D	IC linear op amp Dual low noise op-amp NE5532 DIP-8 300mil	1.00	ea	U2	

AX001056P	IC linear op amp Low noise high performance audio preamp THAT1512 DIP-8 300mil	1.00	ea	U1	
AX000550S	Inductor ferrite thruhole Inductor, ferrite bead 80ohm@100MHz Axial thru-hole LS 400mil	6.00	ea	L1-L6	
AX000372K	LED thru-hole 3mm RED LED, high efficiency thru-hole custom	1.00	ea	D1	
AX000374A	LED thru-hole 3mm YELLOW LED, high efficiency thru-hole custom	1.00	ea	D12	
AX001052J	PCB MPM-3A Microphone Preamp Module	1.00	ea		
AX000644X	Potentiometer 16mm rotary 200mil centres, 18T metric spline, 10K lin SG thru-hole custom	1.00	ea	'Trim' control	
AX000234S	Resistor thru-hole 100R 0.25W 1% metal film Axial thru-hole LS 400mil	1.00	ea	R23	
AX000282L	Resistor thru-hole 10K 0.25W 1% metal film Axial thru-hole LS 400mil	2.00	ea	R1, R2	
AX000209L	Resistor thru-hole 10R 0.25W 1% metal film Axial thru-hole LS 400mil	6.00	ea	R6-R9, R11, R13	
AX000260H	Resistor thru-hole 1K2 0.25W 1% metal film Axial thru-hole LS 400mil	2.00	ea	R17, R18	
AX000262X	Resistor thru-hole 1K5 0.25W 1% metal film Axial thru-hole LS 400mil	1.00	ea	R22	
AX000290C	Resistor thru-hole 22K 0.25W 1% metal film Axial thru-hole LS 400mil	3.00	ea	R14-R16	
AX000275C	Resistor thru-hole 5K1 0.25W 1% metal film Axial thru-hole LS 400mil	2.00	ea	R19, R20	
AX000278A	Resistor thru-hole 6K8 0.25W 1% metal film Axial thru-hole LS 400mil	2.00	ea	R3, R4	
AX000255O	Resistor thru-hole 750R 0.25W 1% metal film Axial thru-hole LS 400mil	1.00	ea	R21	
AX001059N	Switch pushbutton Cap, red for C&K PN22SJNA03QE	1.00	ea	SW1	
AX001060A	Switch pushbutton Cap, white for PN22SJNA03QE	1.00	ea	SW2	
AX001058F	Switch pushbutton DPDT alternate PCB mtg, C&K PN22SJNA03QE thru-hole custom	2.00	ea	SW1, SW2	