

Bill Of Materials

Assembly PA-3 2-channel 300W Class D TPA3255 2-Channel 300W class D amplifier	Revision 02	Artwork B
Variant V02-PA3 PA-3 +48V PSU 8 ohm build	Status production	

Part Number	Part	Qty	UM	Ref	Alt Part
AX001279N	Capacitor SMD ceramic 0.033uF 50V X7R SMD 0805	4.00	ea	C13-C16	
AX000006B	Capacitor SMD ceramic 0.1uF 50V X7R SMD 0805	10.00	ea	C26-C28, C38-C43, C65	
AX001280A	Capacitor SMD ceramic 150pF 50V NPO SMD 0805	8.00	ea	C1-C8	
AX001270T	Capacitor SMD ceramic 1uF 100V X7R SMD 1206	5.00	ea	C25, C32-C35	
AX001275H	Capacitor SMD electrolytic 10uF 25V 4x5.5 SMD custom	9.00	ea	C9-C12, C21-C24, C48	
AX001276P	Capacitor SMD electrolytic 1uF 50V 4x5.4 SMD custom	3.00	ea	C17-C19	
AX001273R	Capacitor SMD electrolytic 220uF 16V 6.3x7.7 SMD custom	2.00	ea	C44, C45	
AX001274Z	Capacitor SMD electrolytic 470uF 16V 8x10.5 SMD custom	1.00	ea	C29	
AX001005Y	Capacitor thru-hole electrolytic 220uF 63V RB 200mil	2.00	ea	C30, C31	
AX001264S	Capacitor thru-hole electrolytic 3900uF 63V RB 10mm	2.00	ea	C49, C50	
AX001261U	Capacitor thru-hole poly 0.001uF 250VAC MKT RB 10mm	4.00	ea	C51-C54	
AX001260M	Capacitor thru-hole poly 0.01uF 400V MKC4 WIMA RB 10mm	4.00	ea	C61-C64	
AX001101Y	Capacitor thru-hole poly 0.047uF 100V MKT RB 5mm	1.00	ea	C20	
AX001259Z	Capacitor thru-hole poly 0.047uF 630V MKS4 WIMA RB 15mm	4.00	ea	C55-C58	
AX001262C	Capacitor thru-hole poly 0.27uF 630V MKT RB 20mm	2.00	ea	C59, C60	
AX001285O	Connector JST type 2.5mm 2-way SIL socket SIL-2 thru-hole 2.5mm	2.00	ea	CN7, CN8	
AX001283Y	Connector JST type 2mm 5-way SIL socket SIL-5 thru-hole 2mm	1.00	ea	CN9	
AX000437C	Connector SIL header 3 way SIL 100mil polarised vertical pin header Header thru-hole 100mil 1x3	3.00	ea	CN1-CN3	
AX000368Z	Connector terminal block 2 way side entry terminal block LS 200mil thru-hole custom	3.00	ea	CN4-CN6	
AX001266I	IC linear op amp Fully balanced audio op amp LME49724 SO-8 150mil	2.00	ea	U2, U3	
AX001271B	IC linear special function TPA3255 Class D power amplifier HTSSOP-44	1.00	ea	U1	
AX001304I	IC MPU PIC PIC12LF1552-ISN SO-8 150mil	1.00	ea	U6	
AX001331F	IC peripheral supervisory Supervisory 2.7V detector with delay NCP303LSN27 SOT-223	1.00	ea	U4	
AX000049B	IC voltage regulator +3.3V 800mA LDO LM1117-3.3 SOT-223	1.00	ea	U5	
AX000757I	Inductor ferrite SMD Ferrite, 120ohm@100MHz 0.25ohm RDC 390mA SMD 0805	2.00	ea	L5, L6	
AX001272J	Inductor power thru-hole 10uH 9A Class D 1D23A-100M ICE thru-hole custom	4.00	ea	L1-L4	
AX001305Q	PCB PA-3 2-channel 300W Class D TPA3255	1.00	ea		
AX000076Y	Resistor SMD 10K 5% 0.1W SMD 0805	10.00	ea	R1-R8, R17, R26	
AX000082Z	Resistor SMD 120K 5% 0.1W SMD 0805	1.00	ea	R15	
AX000116O	Resistor SMD 220R 5% 0.1W SMD 0805	2.00	ea	R24, R25	
AX000118E	Resistor SMD 22R 5% 0.1W SMD 0805	4.00	ea	R9-R12	
AX000134M	Resistor SMD 30K 5% 0.1W SMD 0805	2.00	ea	R13, R14	
AX000152K	Resistor SMD 3R3 5% 0.1W SMD 0805	2.00	ea	R18, R19	
AX000201Z	Resistor SMD 9K1 5% 0.1W SMD 0805	1.00	ea	R16	
AX001307G	Resistor thru-hole 0.1W-0.8W 4R7 0.25W 1% metal film Axial thru-hole LS 400mil	4.00	ea	R20-R23	