

Bill Of Materials

Assembly PA-5 1-channel 30W Class D TPA3106 PA-5 1-channel 12-24V 30W 4/8 ohms class D amplifier module	Revision 02	Artwork B
Variant V01-PA5 PA-5 8 ohm load	Status production	

Part Number	Part	Qty	UM	Ref	Alt Part
AX001377D	Capacitor SMD ceramic 0.001uF 50V SMD 0805	2.00	ea	C5, C6	
AX000004L	Capacitor SMD ceramic 0.01uF 50V X7R SMD 0805	1.00	ea	C17	
AX001397R	Capacitor SMD ceramic 0.22uF 50V X7R SMD 0805	2.00	ea	C1, C2	
AX000756A	Capacitor SMD ceramic 100pF 50V NPO SMD 0805	2.00	ea	C9, C10	
AX001396J	Capacitor SMD ceramic 1uF 50V X7R SMD 0805	4.00	ea	C13-C16	
AX001339R	Capacitor SMD electrolytic 10uF 50V 5x5.4 SMD custom	1.00	ea	C18	
AX001125S	Capacitor thru-hole electrolytic 220uF 35V RB 200mil	2.00	ea	C11, C12	
AX000587R	Capacitor thru-hole poly 1uF 63V RB 5mm	4.00	ea	C3, C4, C7, C8	
AX001285O	Connector JST type 2.5mm 2-way SIL socket SIL-2 thru-hole 2.5mm	2.00	ea	CN5, CN8	
AX000437C	Connector SIL header 3 way SIL 100mil polarised vertical pin header Header thru-hole 100mil 1x3	1.00	ea	CN6	
AX000368Z	Connector terminal block 2 way side entry terminal block LS 200mil thru-hole custom	2.00	ea	CN2, CN7	
AX001394T	IC linear special function Class D amplifier 30W TPA3106 HTQFP-32	1.00	ea	U1	
AX000757I	Inductor ferrite SMD Ferrite, 120ohm@100MHz 0.25ohm RDC 390mA SMD 0805	2.00	ea	L3, L4	
AX001395B	Inductor power thru-hole 33uH 3.5A Class D RFS1412 RB 7.5mm	2.00	ea	L1, L2	
AX000372K	LED thru-hole 3mm RED LED, high efficiency thru-hole custom	1.00	ea	D1	
AX001392D	PCB PA-5 1-channel 30W Class D TPA3106	1.00	ea		
AX000074I	Resistor SMD 100K 5% 0.1W SMD 0805	8.00	ea	R3-R8, R11, R12	
AX000076Y	Resistor SMD 10K 5% 0.1W SMD 0805	1.00	ea	R9	
AX000114Y	Resistor SMD 20R 5% 0.1W SMD 0805	2.00	ea	R1, R2	
AX000162R	Resistor SMD 4K7 5% 0.1W SMD 0805	1.00	ea	R10	
AX001348Q	Transistor SMD BJT NPN GP SW 40V 600mA MMBT4401 SOT-23	1.00	ea	Q1	