

LM386 Audio	Bill of Materials		Revision 0	25.02.2025
Amplifier				
Mono Amplifier				
Reference	Value	Qty	PCB Footprint	Comments
C1	1 μ F	1	Ceramic Capacitor, Pin Spacing 5mm	
C2	1 nF	1	Ceramic Capacitor, Pin Spacing 5mm	
C3	47 nF	1	Ceramic Capacitor, Pin Spacing 5mm	
C4,C5,C7	10 μ F	3	Electrolytic Capacitor, Radial, Diameter 5mm, Pin Spacing 2mm	
C6	220 μ F	1	Electrolytic Capacitor, Radial, Diameter 6.3mm, Pin Spacing 2.5mm	
J1	Power Connector	1	Barrel Jack, 5.5x2.1mm	
J2	External Power Connector	1	2.54mm Pin Header, 1x02, Vertical	
J3	Power Switch	1	2.54mm Pin Header, 1x02, Vertical	
J4	Audio Input	1	2.54mm Pin Header, 1x02, Vertical	
J5	Gain Switch	1	2.54mm Pin Header, 1x02, Vertical	
LS1	Speaker Conn., 8 Ω	1	2.54mm Pin Header, 1x02, Vertical	
R1	10 Ω	1	Resistor, DIN0207, Length 6.3mm, Diameter 2.5mm	
R2	1.2 K Ω	1	Resistor, DIN0207, Length 6.3mm, Diameter 2.5mm	
RV1	10 K Ω Linear	1	2.54mm Pin Header, 1x03, Vertical	
U1	LM386	1	IC, DIP-8, Width 7.62mm	
Stereo Amplifier				
Reference	Value	Qty	PCB Footprint	Comments
C1,C8	1 μ F	2	Ceramic Capacitor, Pin Spacing 5mm	
C2,C9	1 nF	2	Ceramic Capacitor, Pin Spacing 5mm	
C3,C11	47 nF	2	Ceramic Capacitor, Pin Spacing 5mm	
C4,C5,C7,C10,C12,C14	10 μ F	6	Electrolytic Capacitor, Radial, Diameter 5mm, Pin Spacing 2mm	
C6,C13	220 μ F	2	Electrolytic Capacitor, Radial, Diameter 6.3mm, Pin Spacing 2.5mm	
J1	Power Connector	1	Barrel Jack, 5.5x2.1mm	
J2	External Power Connector	1	2.54mm Pin Header, 1x02, Vertical	
J3	Power Switch	1	2.54mm Pin Header, 1x02, Vertical	
J4	Left Gain Switch	1	2.54mm Pin Header, 1x02, Vertical	
J5	Audio Input	1	2.54mm Pin Header, 1x03, Vertical	
J6	Right Gain Switch	1	2.54mm Pin Header, 1x02, Vertical	
LS1	Left Speaker Conn., 8 Ω	1	2.54mm Pin Header, 1x02, Vertical	
LS2	Right Speaker Conn., 8 Ω	1	2.54mm Pin Header, 1x02, Vertical	
R1,R4	10 Ω	2	Resistor, DIN0207, Length 6.3mm, Diameter 2.5mm	
R2,R3	1.2 K Ω	2	Resistor, DIN0207, Length 6.3mm, Diameter 2.5mm	
RV1	10 K Ω Linear	1	2.54mm Pin Header, 1x03, Vertical (to left volume potentiometer)	
RV2	10 K Ω Linear	1	2.54mm Pin Header, 1x03, Vertical (to right volume potentiometer)	
U1,U2	LM386	2	IC, DIP-8, Width 7.62mm	