

Desktop Headphone Amplifier

agdr, 8/11/2013

panel hole CAD dimensions

x,y, diameter

Origin at lower left corner (0.00,0.00). In mm.

Bottom of panel to top of PCB 12.71mm = 0.50 inches

Left and right panel to PCB edge 4.90mm = 0.1929 inches

**Rear Panel - looking at it from the rear of the chassis**

		ALL IN mm (x, y, dia)	notes
Blank panel stock		169.80 x 53.30 x 2.00thick	
Blank panel color		blue	
Blank panel finish		anodized aluminum	
Panel to chasis upper right hole		163.60 x 47.90 x 3.50dia	
Panel to chasis lower right hole		163.60 x 5.40 x 3.50dia	
Panel to chasis upper left hole		6.20 x 47.90 x 3.50dia	
Panel to chassis lower left hole		6.20 x 5.40 x 3.50dia, 7.0mm countersink of 0.2mm at 180 angle	Rear panel to case single-point ground
Panel lower center hole		84.90 x 4.00 x 3.50dia	
Panel corner radius from mounting hole center		6.00	
RCA input lower	J1	17.65 x 19.92 x 11.25dia	
RCA input upper	J1	17.65 x 33.76 x 11.25dia	
RCA input mounting screw	J1	26.65 x 26.72 x 3.2dia	
Negative voltage LDO regulator	IC7	35.9 x 30.73 x 4.00dia	
Negative voltage pre-regulator	IC4	49.15 x 28.50 x 4.00dia	
Voltage selector push button	S4	61.0 x 18.85 x 9.4dia	larger hole to account for shaft wiggle
Positive voltage LDO regulator	IC6	72.4 x 30.73 x 4.00dia	

Positive voltage pre-regulator	IC3	85.15 x 28.50 x 4.00dia	
Power switch	S1	139.15 x 18.85 x 6.40dia	
DC power jack	J3	152.15 x 19.00 x 9.50dia	larger hole to prevent barrel connector from contacting panel

**Front Panel - looking at it from the front of the chassis**

		ALL IN mm (x, y, dia)	notes
Blank panel stock		169.80 x 53.30 x 2.00thick	
Blank panel color		blue	
Blank panel finish		anodized aluminum	
Panel to chasis upper right hole		163.60 x 47.90 x 3.50dia	
Panel to chasis lower right hole		163.60 x 5.4 x 3.50dia, 7.0mm countersink of 0.2mm at 180 angle	Front panel to case single-point ground
Panel to chasis upper left hole		6.20 x 47.90 x 3.50dia	
Panel to chasis lower left hole		6.20 x 5.40 x 3.50dia	
Panel lower center hole		84.90 x 4.00 x 3.50dia	
Panel corner radius from mounting hole center		6.00	
1/4" output jack	J6	17.65 x 19.25 x 11.4dia	
3.5mm output jack	J4	39.09 x 19.85 x 8.6dia	larger hole to not electrically contact panel grounding
RCA pre-amp input lower	J5	59.40 x 19.92 x 11.25dia	
RCA pre-amp input upper	J5	59.40 x 33.76 x 11.25dia	
RCA pre-amp input screw	J5	68.40 x 26.72 x 3.2dia	
Volume pot	VR1	93.45 x 20.37 x 9.0dia	larger hole to not electrically contact panel grounding
Power OK left LED	LED4	104.65 x 18.19 x 3.3dia	larger hole to account for LED wiggle in holder
Power OK right LED	LED5	110.65 x 18.19 x 3.3dia	larger hole to account for LED wiggle in holder

Gain switch	S3	122.20 x 20.16 x 9.0dia	larger hole to not electrically contact panel grounding
Clipping LED	LED3	131.65 x 18.19 x 3.3dia	larger hole to account for LED wiggle in holder
Input select switch	S2	139.3 x 18.85 x 9.4dia	larger hole to account for shaft wiggle
3.5mm input jack	J2	154.84 x 19.85 x 6.3dia, 10.0mm countersink of 1mm at 180 angle	Panel grounding point