

PANSON AUDIO LABS

Component list for output board with four-pair ThermalTrak rev 2.0

Q5 - Q8	NJL1302D	PNP output power BJT	
Q1 - Q4	NJL3281D	NPN output power BJT	
Q9	MJE15030	NPN driver	heatsink needed
Q10	MJE15031	PNP driver	heatsink needed
Q11	MJE15030	NPN pre-driver	may not need heatsink; can be omitted for LME49810
Q12	MJE15031	PNP pre-driver	may not need heatsink; can be omitted for LME49810
R1 - R8	10 R	0.5 W 1 % metal-film	
R10 - R25	0.22 R	Low-inductance power resistor	only need one per each emitter if 5 W resistors are employed all are 0.47 Ohm for using 2 W/3 W resistors
R9	180 R	0.5 W 1 % metal-film	
R28	560 R	0.5 W 1 % metal-film	
C1, C2, C3	0.1 uF, 250 V	Film cap (e.g. MKT)	
C4 - C7	220 uF, 80 V	E-cap for onboard filtering	rated voltage dependent of supply rails
D1, D2	1N5408	Catching diode	1N5048 rated 1000V, 3 A or equivalent
SV1, SV2, SV3	Female pin-header		
X1, X2	Connectors		