

PANSON AUDIO LABS

Compact Series LME49811 ThermalTrak Amplifier Rev 2.1 Component List

Part	Value	Misc	
C1	470 pF	Film	EPCOS
C2	470 uF, 16 V	E-cap	United Chemi-Con KZJ low-impedance
C3	0.1 uF, 100V	Film	ERO
C4	0.1 uF, 100V	Film	ERO
C5	20/22 pF	Silver mica	Single-pole compensation cap
C6	0.1 uF, 100V	Film	ERO
C7	0.1 uF, 100V	Film	ERO
C8	100 uF, 50 V	E-cap	Rubycon YXF low-ESR
C9	0.1 uF, 100V	Film	ERO
C10	100 uF, 50 V	E-cap	Rubycon YXF low-ESR
C11	100 uF, 50 V	E-cap	Rubycon YXF low-ESR
C12	0.1 uF, 100V	Film	ERO
C13	470 uF, 16 V	E-cap	United Chemi-Con KZJ low-impedance
C14	Short		Optional for two-pole compensation
D1	1N4004		or 1N4007
D2	1N4004		or 1N4007
D3	1N4148		
D4	5.1 V zener		
LED1	Open		
Q1	MJE15030	NPN driver	ON Semi
Q2	MJE15031	PNP driver	ON Semi
Q3	NJL3281	NPN output	ON Semi
Q4	NJL1302	PNP output	ON Semi
Q5	Open		Optional for using Vbe multiplier
R1	1 k	1 % metal-film, 0.25 W	
R2	33 k	1 % metal-film, 0.25 W	
R3	0.22 R	non-inductive 5 W	
R4	0.22 R	non-inductive 5 W	
R5	Open		
R6	1.5 k	1 % metal-film, 0.25 W	
R7	240 R	1 % metal-film, 0.25 W	
R8	5k6	1 % metal-film, 0.25 W	

	R9	180 R	1 % metal-film, 1 W	
	R10	10 R	1 % metal-film, 0.25 W	
	R11	10 R	1 % metal-film, 0.25 W	
	R12	Short		Optional for using Vbe multiplier
	R13	10 R	1 % metal-film, 0.5 W	
	R14	10 R	1 % metal-film, 0.5 W	
	R15	Open		
	R16	Open		
	R17	2k4	1 % metal-film, 0.5 W	
	R18	Open		Optional for two-pole compensation
	R19	Short		
	R20	500 R	Multi-turn potentiometer	
	R22	Short		Optional for using Vbe multiplier
	R21	Open		Optional for adjusting ThermalTrak diode current for the diode's temp coef.
	R23	Open		Optional for adjusting ThermalTrak diode current for the diode's temp coef.
	U1	LME49811	NS	Short PAD1&2, PAD3&4 on the bottom layer for using LME49811
	X1	Connector		
	X2	Connector		
	X3	Connector		