

PANSON AUDIO LABS

Compact Series LME4981x ThermalTrak Amplifier Rev 2.1 Component List

Part	Value	Misc	
C1	470 pF	Film	
C2	680 uF, 25 V	E-cap	
C3	0.1 uF, 100V	Film	
C4	0.1 uF, 100V	Film	
C5	22 pF	Silver mica	Single-pole compensation cap
C6	0.1 uF, 100V	Film	
C7	0.1 uF, 100V	Film	
C8	100 uF, 50 V	E-cap	
C9	0.1 uF, 100V	Film	
C10	100 uF, 50 V	E-cap	
C11	100 uF, 50 V	E-cap	
C12	Open		Optional for using Vbe multiplier
C13	Open		Optional for using Vbe multiplier
C14	0 R		Optional for two-pole compensation
D1	1N4004		
D2	1N4004		
D3	1N4148		
D4	5.1 V zener		
LED1	LED		Only needed for LME49810
Q1	MJE15030	NPN driver	
Q2	MJE15031	PNP driver	
Q3	NJL3281	NPN output	
Q4	NJL1302	PNP output	
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	470 R	1 % metal-film, 0.25 W	Only needed for LME49810
	33 k for LME49810		
R6	1.5k for LME49811	1 % metal-film, 0.25 W	
R7	240 R	1 % metal-film, 0.25 W	

R8	5.6 k	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	0 R		
R13	10 R	1 % metal-film, 0.5 W	
R14	10 R	1 % metal-film, 0.5 W	
R15	1 k	1 % metal-film, 0.25 W	Open for LME49811
R16	1 k	1 % metal-film, 0.25 W	Open for LME49811
R17	2.4 k	1 % metal-film, 0.5 W	
R18	Open		Optional for two-pole compensation
R19	0 R		Optional for using Vbe multiplier
R20	1 k	Multi-turn potentiometer	
R22	0 R		Optional for using Vbe multiplier
			Optional for adjusting ThermalTrak diode current for the diode's temp coef.
R21	Open		Optional for adjusting ThermalTrak diode current for the diode's temp coef.
R23	Open		Short PAD1&2, PAD3&4 on the bottom layer for using LME49811
	Either LME49810 or		
U1	LME49811		
X1	Connector		
X2	Connector		
X3	Connector		