

PART	DESCRIPTION	PACKAGE	QTY/AMP	NOTES
C1,C2	470uF 50V FM 12.5x20	E5-13	0	
C1,C2	560uF 50V FM 12.5x25	E5-13	0	
C1,C2	680uF 50V FM 12.5x30	E5-13	2	Recommended choice
C3,C4,C7,C8	0.1uF 50V X7R	C0805	4	
C5,C6	10uF 25V	E2-5	2	
C9	0.22uF 100V X7R	C1206	1	
C10,C11,C12,C13	1uF 50V X7R	C1206	4	<i>Optional (recommended)</i>
C14,C15	100pF 100V C0G	C0805	2	<i>5% tolerance maximum; Optional</i>
C16	1000pF 100V C0G	C0805	1	
C17	220pF 50V C0G	C0805	1	<i>Optional</i>
D1,D2	15V 500mW	SOD123	0	
D1,D2	18V 500mW	SOD123	2	Recommended choice
Q1	NPN 2N3904 60V 200mA	TO92D	1	40V, 50mA minimum rating
Q2	PNP 2N3906 40V 200mA	TO92D	1	40V, 50mA minimum rating
R1,R2,R7,R8	2k Ω 1/10W	R0805	4	1% tolerance maximum
R3,R4	100k Ω 1/10W	R0805	2	1% tolerance maximum
R5,R6	10k Ω 1/10W	R0805	2	1% tolerance maximum
R9,R10	20k Ω 1/10W	R0805	2	1% tolerance maximum
R11	20kΩ 1/10W	R0805	0	Sets overall amp gain to 20V/V
R11	10kΩ 1/10W	R0805	1	Sets overall amp gain to 30V/V
R12	N/U	R0805	0	
R13,R14	200 Ω 1/4W	R1206	2	Not used with separate op amp supply
R15,R16	4.02k Ω 1/8W	R0805	2	1% tolerance maximum
R17,R18	10k Ω 1/4W	R1206	2	<i>Optional (recommended)</i>
IC1	OP2134	DIL08	1	A DIP8 socket is recommended
IC2	LM3875TF	TO220-11	1	Remove pin 2 before installation
PCB	2"x1.75" 2oz copper	N/A	1	
Standoffs	4-40 0.25" dia 0.375" long	N/A	4	<i>Optional</i>
Screws	4-40 0.25" dia 0.25" long	N/A	4	<i>Optional</i>
X2,X4	4 pole 2.54mm spacing	4POL254	2	<i>Optional</i>
X3	6 pole 3.5mm spacing	6POL350	1	<i>Optional</i>