

**V3 PER CHANNEL**

Front End
P-Channel Board
N-Channel Board
P-Channel Board 2
N-Channel Board 2

Qty	Reference Designator	Value	Type	Mouser P/No	Notes
3	R1, R5, R6	1K	0.5W Metal Film	273-1K-RC	
1	R2, R26*	47K5	0.5W Metal Film	273-47.5K-RC	
2	R3, R4	10R	3W Wirewound	71-RW69V100	Spacings available: 5.08mm (TO-220), 9mm, 11mm, 19.1mm, 25mm
4	R7-R10	220R	3W Wirewound	71-RW69V221	Spacings available: 5.08mm (TO-220), 9mm, 11mm, 19.1mm, 25mm
1	R11	2K2	0.5W Metal Film	273-2.2K-RC	
1	R12	2K2	0.5W Metal Film	273-2.2K-RC	
2	R13, R14	47R5	0.5W Metal Film	273-47.5-RC	
2	R15, R16	47R5	0.5W Metal Film	273-47.5-RC	
4	R17 - R20	1R	3W Wirewound	71-RW79U1R00F	Spacings available: 5.08mm (TO-220), 9mm, 11mm, 19.1mm, 25mm
4	R21 - R24	1R	3W Wirewound	71-RW79U1R00F	Spacings available: 5.08mm (TO-220), 9mm, 11mm, 19.1mm, 25mm
2	R13, R14 (R35, R41)	47R5	0.5W Metal Film	273-47.5-RC	
2	R15, R16 (R36, R42)	47R5	0.5W Metal Film	273-47.5-RC	
4	R17 - R20 (R31, R32, R37, R38)	1R	3W Wirewound	71-RW79U1R00F	Spacings available: 5.08mm (TO-220), 9mm, 11mm, 19.1mm, 25mm
4	R21 - R24 (R33, R34, R39, R40)	1R	3W Wirewound	71-RW79U1R00F	Spacings available: 5.08mm (TO-220), 9mm, 11mm, 19.1mm, 25mm
1	R25*	10K	0.5W Metal Film	273-10K-RC	
2	R27*, R28*	4K75	0.5W Metal Film	273-4.75K-RC	
2	R29, R30	475R	0.5W Metal Film	273-475-RC	
2	P1, P2	5K	Bourns 3296W	652-3296W-1-502LF	
1	P3	200R	Bourns 3296W	652-3296W-1-201LF	
4	C1, C2, C5, C6	10uF 100V	Radial Aluminium Electrolytic	647-UVP2A100MPD	
1	C1x	10uF 100V	Radial Aluminium Electrolytic	647-UVP2A100MPD	
1	C2x	10uF 100V	Radial Aluminium Electrolytic	647-UVP2A100MPD	
1	C3	1nF 63V	Polyester Film	871-B32529C102J	
1	C4	1nF 63V	Polyester Film	871-B32529C102J	
2	D1, D2	MUR3020W	Dual 200V 30A Common Cathode	844-MUR3020WTPBF	
2	D3, D4	MUR3020W	Dual 200V 30A Common Cathode	844-MUR3020WTPBF	
1	TH1	4K7	Thermistor 4K7 2% Radial 500mW	594-NTCLE100E3472GB0	
1	TH2	4K7	Thermistor 4K7 2% Radial 500mW	594-NTCLE100E3472GB0	
1	C3	1nF 63V	Polyester Film	871-B32529C102J	
1	C4	1nF 63V	Polyester Film	871-B32529C102J	
2	D1, D2 (D5, D6)	MUR3020W	Dual 200V 30A Common Cathode	844-MUR3020WTPBF	
2	D3, D4 (D7, D8)	MUR3020W	Dual 200V 30A Common Cathode	844-MUR3020WTPBF	
2	Q1, Q1.1	2SK170	N Channel JFET		<a href="#">diyAudio store LSK170</a>
2	Q2, Q2.1	2SJ74	P Channel JFET		<a href="#">diyAudio store LSJ74</a>
2	Q3, Q4	FQA12P20	P Channel MOSFET		
2	Q5, Q6	FQA19N20	N Channel MOSFET		
2	Q3, Q4 (Q9, Q10)	FQA12P20	P Channel MOSFET		
2	Q5, Q6 (Q11, Q12)	FQA19N20	N Channel MOSFET		
1	Q7	2SC4793	BJT NPN 230V 1A	757-2SC4793(F,M)	
1	Q8	2SA1837	BJT PNP 230V 1A	757-2SA1837(F,M)	
4	TP1 - TP4	Test Points	Keystone Compact Test Points	534-5006	
3	TP1 - TP3	Test Points	Keystone Compact Test Points	534-5006	
3	TP1 - TP3	Test Points	Keystone Compact Test Points	534-5006	
3	TP1 - TP3	Test Points	Keystone Compact Test Points	534-5006	
3	TP1 - TP3	Test Points	Keystone Compact Test Points	534-5006	

2 N/A Boards [diyAudio Board Set\(s\)](#) [diyAudio Board Sets](#)

\* CASCODE FORMULA: rail voltage / (R26+R28) \* R28 = cascode voltage  
ex: 50V rails / (10Kohm+4,75Kohm) \* 4.75Kohm = 16.1V