

Part	Quantity	Description
Circuit board		
-	1	β22 printed circuit board
Resistors		
R1	1	1/8W 1% metal film resistor 475Ω (see table below)
R2	1	1/8W 1% metal film resistor 1MΩ (see table below)
R3	1	1/8W 1% metal film resistor 182Ω (see table below)
R4	1	1/8W 1% metal film resistor 1.21KΩ (see table below)
R5, R6	2	1/8W 1% metal-film resistor 49.9Ω
R7, R8	2	1/8W 1% metal-film resistor 56.2Ω
R9-R12, R25, R26	6	1/8W 1% metal-film resistor 2.21KΩ
R13, RLED+, RLED-	3	1/8W 1% metal-film resistor 10KΩ
R14, R15	2	1/8W 1% metal-film resistor 121Ω
R16-R19	4	1/8W 1% metal-film resistor 10Ω
R20, R21	2	1/8W 1% metal-film resistor 249Ω
R22, R27	2	1/8W 1% metal-film resistor 562Ω
R23, R24	2	1/8W 1% metal-film resistor 1.82KΩ
R28, R29, R32	3	1/8W 1% metal-film resistor 75Ω
R33	1	1/8W 1% metal-film resistor 33.2Ω
R34, R35	2	2W 5% metal-oxide resistor 0.47Ω (see notes below)
Potentiometers		
VR1	1	3/8" multi-turn cermet trimpot 200Ω
VR2	1	3/8" multi-turn cermet trimpot 500Ω
VR3	1	3/8" multi-turn cermet trimpot 5KΩ
Capacitors		
C1-C5	5	multilayer ceramic capacitor 33pF (see table below)
C6-C8, C13, C14, C17,	7	metallized polyester capacitor 1μF
C9-C12	4	aluminum electrolytic capacitor 100μF 50V
C15, C16	2	aluminum electrolytic capacitor 470μF 50V
Transistors		
Q1, Q2	2	N-channel JFET 2SK170BL, 2SK370BL or LSK170B
Q3, Q4	2	P-channel JFET 2SJ74BL, 2SJ108BL or LSJ74B
Q5, Q6, Q11, Q12, Q1	8	NPN small signal BJT BC550C
Q7, Q8, Q9, Q10, Q13	8	PNP small signal BJT BC560C
Q19, Q20	2	N-channel JFET PN4392
Q21, Q23	2	International Rectifier N-channel power MOSFET IRFZ24N
Q22, Q24	2	International Rectifier P-channel power MOSFET IRF9Z34N
Diodes		
D1, D2, D5-D10	8	12V 500mW zener diode BZX55C12
D3, D4	2	small signal diode 1N4148
D11, D12	2	1A rectifier diode 1N4004
CR1-CR8	8	Current regulator diode 0.5mA E-501

Part	Left & Right channels
R1	475Ω
R2	1MΩ
R3	(see table below)
R4	(see table below)

C2-C5 (see table below)

L & R Part Gain 11x

R3 100 Ω

R4 1K Ω

C2-C5 22pF

1

3 RN55D Vishay-Dale
3 RN55D Vishay-Dale
6 RN55D Vishay-Dale
5 RN55D Vishay-Dale
3 RN55D Vishay-Dale
3 RN55D Vishay-Dale
4 RN55D Vishay-Dale
5 RN55D Vishay-Dale
3 RN55D Vishay-Dale
6 RN55D Vishay-Dale
3 RN55D Vishay-Dale
3 RN55D Vishay-Dale
3 RN55D Vishay-Dale
3 RN55D Vishay-Dale
4 RN55D Vishay-Dale

10

1 Bournce

1 Bournce

20 Murata NPO

1 Wima

9 Panasonic EEUFC

2 Nichicon

2 Matched

2 Matched

10 измерены

9 измерены

8 измерены

5 измерены

6 измерены

8 измерены

10

8

8 измерены

Ground channel

(not used)

1K Ω

4 RN55D Vishay-Dale

2.49K Ω

4 RN55D Vishay-Dale

2.49K Ω

100pF

8 Vishay

Gain 8x	Gain 5x	Gain 2x
182Ω	392Ω	2.49KΩ
1.21KΩ	1.5KΩ	2.49KΩ
33pF	47pF	100pF

20

Vishay