

Bill Of Materials for Dual Linear SSI2164 VCA 2.0 - STROH - 2023

Design Title Dual Linear SSI2164 VCA 2.0 - STROH - 2023
Author Dustin Stroh
Document Number
Revision 2.0
Design Created Thursday, March 30, 2023
Design Last Modified Thursday, March 30, 2023
Total Parts In Design 61

0 Modules

Quantity	References	Value	PCB Package	Notes
--------------------------	----------------------------	-----------------------	---------------------------------	-----------------------

Sub-totals:

11 Capacitors

Quantity	References	Value	PCB Package	Notes
6	C1,C4-C5,C7, C10-C11	100pF	CAP10	C0G/NP0 MLCC / Ceramic / Film
4	C2-C3,C6,C8	1200pF	CAP10	C0G/NP0 MLCC / Ceramic / Film
1	C9	10nF	CAP10	C0G/NP0 MLCC / Ceramic / Film

Sub-totals:

27 Resistors

Quantity	References	Value	PCB Package	Notes
8	R1,R3,R11-R14, R26-R27	100K	RES40	1% Resistor (100PPM / 50PPM Recommended)
4	R2,R5,R9-R10	220R	RES40	1% Resistor (100PPM / 50PPM Recommended)
4	R4,R6-R8	20K	RES40	1% Resistor (100PPM / 50PPM Recommended)
2	R15-R16	100R	RES40	1% Resistor (100PPM / 50PPM Recommended)
8	R17-R22,R24- R25	10K	RES40	1% Resistor (100PPM / 50PPM Recommended)
1	R23	820R	RES40	1% Resistor (100PPM / 50PPM Recommended)

Sub-totals:

6 Integrated Circuits

Quantity	References	Value	PCB Package	Notes
1	U1	J2164	SO16	Sound Semiconductor SSI2164 (SSI Only)
3	U2-U4	OPA2134UA	SO8	Choose good op amps (OPA2132 / OPA2134 / OP1656 / AD8034 / LME49720)
1	U5	LM4040-5	TO92	5V LM4040 (A, B, or C type.)
1	U6	TLE2062	SO8	Dual op amp. Needs to supply decent current, and decent voltage swing for 12V power. (TLE2062 is best.)

Sub-totals:

0 Transistors

Quantity	References	Value	PCB Package	Notes
--------------------------	----------------------------	-----------------------	---------------------------------	-----------------------

Sub-totals:

0 Diodes

Quantity	References	Value	PCB Package	Notes
--------------------------	----------------------------	-----------------------	---------------------------------	-----------------------

Sub-totals:

17 Miscellaneous

Quantity	References	Value	PCB Package	Notes
10	BP1-BP10	100nF	0805	Decoupling / Bypass 0805 Capacitors C0G/NP0
2	FB1-FB2	0R	RES40	Ferrite Beads
1	J1	SIL-156-04	SIL-156-04	MTA-156 Friction Lock Power Header

2	OFFSET1- OFFSET2	100K	CONN- SIL3	Panel Pot
2	PF1-PF2	10uF	ELEC- RAD13	Electrolytic Power Filtering Capacitors

Sub-totals:

Totals:

Thursday, March 30, 2023 2:10:53 PM