

Bill Of Materials for DualVCA - 2.5

Design Title	DualVCA - 2.5
Author	
Document Number	
Revision	<NO
Design Created	Monday, May 19, 2025
Design Last Modified	Monday, May 19, 2025
Total Parts In Design	88

0 Modules

Quantity	References	Value	PCB Package	Notes
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Sub-totals:
13 Capacitors

Quantity	References	Value	PCB Package	Notes
6	C1,C4-C5,C7,C10-C11	100pF	CAP10	C0G/NP0 or Film 2.5mm Lead Spacing
4	C2-C3,C6,C8	1200pF	CAP10	C0G/NP0 or Film 2.5mm Lead Spacing
1	C9	10nF	CAP10	C0G/NP0 or Film 2.5mm Lead Spacing
2	C12-C13	33pF	CAP10	C0G/NP0 or Film 2.5mm Lead Spacing

Sub-totals:
33 Resistors

Quantity	References	Value	PCB Package	Notes
8	R1,R3,R11-R14,R26-R27	100K	RES40	1/4W 50-100PPM 1% Resistor
4	R2,R5,R9-R10	220R	RES40	1/4W 50-100PPM 1% Resistor
4	R4,R6-R8	20K	RES40	1/4W 50-100PPM 1% Resistor
3	R15-R16,R33	100R	RES40	1/4W 50-100PPM 1% Resistor
13	R17-R22,R24-R25,R28-R32	10K	RES40	1/4W 50-100PPM 1% Resistor
1	R23	470R	RES40	1/4W 50-100PPM 1% Resistor

Sub-totals:
7 Integrated Circuits

Quantity	References	Value	PCB Package	Notes
1	U1	J2164	SO16	SSI2164 Only (do not use Cool or SSM)
4	U2-U4,U7	OPA2134UA	SO8	Any Good Dual Op Amp (OPA2156, OPA2134, etc.)
1	U5	LM4040-5	TO92	TO92 LM4040 5V Precision Reference
1	U6	TLE2062	SO8	TLE2062 or TLV9352 (stable high current output buffer.

Sub-totals:
0 Transistors

Quantity	References	Value	PCB Package	Notes
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Sub-totals:
0 Diodes

Quantity	References	Value	PCB Package	Notes
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Sub-totals:
35 Miscellaneous

Quantity	References	Value	PCB Package	Notes
14	+5,-5,0V,CV1A,CV1B,CV2A,CV2B,IN1A,IN1B,IN2A,IN2B,OUT1-OUT2,SUM	CONN-SIL1	CONN-SIL1	PCB Header Pads.
12	BP1-BP12	100nF	0805	0805 C0G/NP0 Bypass Capacitors.
2	FB1-FB2	0R	RES40	Ferrite Beads
1	J1	SIL-156-04	SIL-156-04	MTA-156 Friction Lock (Recommend TE)
1	J2	CONN-SIL4	CONN-SIL4	SIL Header (aux power)
2	OFFSET1-OFFSET2	100K	CONN-SIL3	Panel Pot
2	PF1-PF2	10uF	ELEC-RAD13	Power Filtering Electrolytic Caps
1	SUM1	100R	CONN-SIL3	Panel Pot

Sub-totals:

Totals: