Bill Of Materials for Sreddal-Filter

Design Title Sreddal-Filter

Author

Document Number

Revision <NO

Design Created Thursday, June 8, 2023 **Design Last Modified** Friday, June 9, 2023

Total Parts In Design 86

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0 Modu		Value	DCD	Netoo			
•	<u>References</u>	<u>Value</u>	PCB Package	<u>Notes</u>			
Sub-totals:							
10 Capacitors							
<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>PCB</u> <u>Package</u>	<u>Notes</u>			
1	C1	18pF	CAP10	COG/NP0 MLCC / Ceramic / Film			
1	C2	560pF	CAP20	Polypropylene Film (Filter Cap)			
3	C3-C5	6.8nF	CAP20	Polypropylene Film (Filter Cap)			
1	C6	10nF	CAP10	C0G/NP0 MLCC / Ceramic / Film			
2	C7-C8	330pF	CAP10	C0G/NP0 MLCC / Ceramic / Film			
1	C9	1uF	CAP20	AC Coupling Cap (1uF to 22uF)			
1	C10	33pF	CAP10	C0G/NP0 MLCC / Ceramic / Film			
Sub-totals	S:						
36 Resistors							
<u>Quantity</u>	<u>References</u>	<u>Value</u>	PCB Package	<u>Notes</u>			
2	R1,R31	11.5K	RES40	1% 50PPM or 100PPM 1/4W Resistor			
1	R2	68K	RES40	1% 50PPM or 100PPM 1/4W Resistor			
3	R3-R5	33K	RES40	1% 50PPM or 100PPM 1/4W Resistor			
1	R6	20K	RES40	1% 50PPM or 100PPM 1/4W Resistor			
2	R7-R8	200R	RES40	1% 50PPM or 100PPM 1/4W Resistor			
1	R9	13K	RES40	1% 50PPM or 100PPM 1/4W Resistor			
6	R10,R13-R15,R17, R32	100K	RES40	1% 50PPM or 100PPM 1/4W Resistor			
1	R11	1K	RES40	1% 50PPM or 100PPM 1/4W Resistor			
1	R12	160K	RES40	1% 50PPM or 100PPM 1/4W Resistor			
2	R16,R36	100R	RES40	1% 50PPM or 100PPM 1/4W Resistor			
1	R18	499K	RES40	1% 50PPM or 100PPM 1/4W Resistor			
1	R19	820K	RES40	1% 50PPM or 100PPM 1/4W Resistor			
6	R20,R22-R23,R25, R28,R30	10K	RES40	1% 50PPM or 100PPM 1/4W Resistor			
1	R21	470R	RES40	1% 50PPM or 100PPM 1/4W Resistor			
2	R24,R27	4.99K	RES40	1% 50PPM or 100PPM 1/4W Resistor			
2	R26,R29	47K	RES40	1% 50PPM or 100PPM 1/4W Resistor			
2	R33-R34	680R	RES40	1% 50PPM or 100PPM 1/4W Resistor			
1	R35	18K	RES40	1% 50PPM or 100PPM 1/4W Resistor			
Sub-totals			0 .0	.,, 55. 1 5. 155. 1 1/11/1 (601516)			
8 Integrated Circuits							
•	References	<u>Value</u>	PCB Package	<u>Notes</u>			
1	U1	J2144	SSOP16- U	SSI2144 Filter IC (do not use vintage SSM2044)			
1	U2	LM13700	SO16	SMT LM13700 Dual OTA			
3	U3,U6,U8	OPA2134UA		Any Good SMT Dual Op Amp			

1	U4	LM4040-10	TO92	LM4040 5V (A, B, or C version fine.)			
1	U5	TLE2062	SO8	This Buffers the Voltage References, and needs to supply decent current. TLE2062 (or similar high output with wide swing op amp REQUIRED)			
1	U7	OPA134UA	SO8	Any Good SMT Single Op Amp			
Sub-totals:							
4 Transistors							
Quantity	<u>References</u>	<u>Value</u>	<u>PCB</u> <u>Package</u>	<u>Notes</u>			
2	Q1-Q2	2N3904	TO92	Any typical NPN (EBC pinout on PCB)			
2	Q3-Q4	2N3906	TO92	Any typical PNP (EBC pinout on PCB)			
Sub-totals:							
3 Diodes							
<u>Quantity</u>	References	<u>Value</u>	PCB Package	<u>Notes</u>			
3	D1-D3	1 N 4148	DO35	Standard Small Signal Switching Diode			
Sub-totals:							
25 Miscellaneous							
<u>Quantity</u>	<u>References</u>	<u>Value</u>	PCB Package	<u>Notes</u>			
12	BP1-BP12	100nF	0805	SMT 0805 C0G/NP0 Bypass / Decoupling			
2	FB1-FB2	0R	RES40	Ferrite Beads			
7	FM1-FM2,IN1,INIT, RES,TUNE1, VOFFSET	100K	CONN- SIL3	Panel Potentiometers			
1	J1	SIL-156-04	SIL-156-04	MTA-156 Friction Lock Power Header			
2	PF1-PF2	10uF	ELEC- RAD13	Power Filtering Electrolytic Capacitors			
1	VOCT1	50K	3362P	Use REAL Bourns 3362P Trimmer			
Sub-totals:							

Totals:

Friday, June 9, 2023 9:50:09 AM