

Bill Of Materials for Pretzel

Design Title	Pretzel
Author	Dustin Stroh (J3RK)
Document Number	
Revision	1.1
Design Created	Monday, November 13, 2023
Design Last Modified	Monday, November 13, 2023
Total Parts In Design	88

0 Modules

Quantity	References	Value	PCB Package	Notes
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Sub-totals:

0 Capacitors

Quantity	References	Value	PCB Package	Notes
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Sub-totals:

28 Resistors

Quantity	References	Value	PCB Package	Notes
14	R1-R14	4.99K	RES40	1% 1/4W 50-100PPM Metal Film Resistor
10	R15-R24	3.3K	RES40	1% 1/4W 50-100PPM Metal Film Resistor
4	R25-R28	100R	RES40	1% 1/4W 50-100PPM Metal Film Resistor

Sub-totals:

8 Integrated Circuits

Quantity	References	Value	PCB Package	Notes
3	U1-U3	4093	DIL14	CMOS 4000 Series DIP Package
1	U4	40106	DIL14	CMOS 4000 Series DIP Package
3	U5-U7	4041	DIL14	CMOS 4000 Series DIP Package
1	U8	LF347	DIL14	Quad Op Amp (most are fine, TL074 for example)

Sub-totals:

7 Transistors

Quantity	References	Value	PCB Package	Notes
7	Q1-Q7	2N3904	TO92	NPN Transistors (2n3904 works well) EBC Pinout on PCB

Sub-totals:

7 Diodes

Quantity	References	Value	PCB Package	Notes
7	D1-D7	DIODE	DIODE30	Small Signal Switching Diodes (1n4148 or equivalent)

Sub-totals:

38 Miscellaneous

Quantity	References	Value	PCB Package	Notes
14	+12,-12,0V,AA,AB,AO,NI,NO,OA,OB,OO,XA,XB,XO	CONN-SIL1	CONN-SIL1	SIL Pad on PCB. No part needed.
9	BP1-BP9	100nF	0805	0805 SMT C0G/NP0 Bypass/Decoupling Capacitors
2	FB1-FB2	0R	RES40	Axial Ferrite Beads
1	J1	SIL-156-04	SIL-156-04	MTA-156 Friction Lock Power Header
10	LED1-LED10	LED-BIRG	CONN-SIL2	Two Lead Bi-Color LEDs

2	PF1-PF2	10uF	ELEC- RAD10	Electrolytic Power Filtering Capacitors
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Sub-totals:

Totals:

Wednesday, March 20, 2024 2:31:51 PM