

Bill Of Materials for PulseLatch

Design Title	PulseLatch
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Document Number	
Revision	REV 1.3
Design Created	Monday, September 9, 2024
Design Last Modified	Tuesday, September 10, 2024
Total Parts In Design	73

0 Modules

Quantity	References	Value	PCB Package	Notes
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Sub-totals:

6 Capacitors

Quantity	References	Value	PCB Package	Notes
1	C1	330nF	CAP10	C0G/NP0 MLCC / Ceramic / Film
1	C2	10nF	CAP10	C0G/NP0 MLCC / Ceramic / Film
3	C3,C5-C6	100nF	CAP10	C0G/NP0 MLCC / Ceramic / Film
1	C4	4.7uF	CAP10	X7R Ceramic / MLCC / Film (Electrolytic OK too, but check polarity!!!)

Sub-totals:

16 Resistors

Quantity	References	Value	PCB Package	Notes
2	R1-R2	4.99K	RES40	1/4W 50-100PPM 1% Resistor
6	R3-R6,R15-R16	220R	RES40	1/4W 50-100PPM 1% Resistor
4	R7-R10	100R	RES40	1/4W 50-100PPM 1% Resistor
2	R11-R12	15K	RES40	1/4W 50-100PPM 1% Resistor
1	R13	10K	RES40	1/4W 50-100PPM 1% Resistor
1	R14	100K	RES40	1/4W 50-100PPM 1% Resistor

Sub-totals:

9 Integrated Circuits

Quantity	References	Value	PCB Package	Notes
4	U1,U5-U6,U9	40106	DIL14	DIP CMOS 4000
1	U2	7805	TO220	TO220 (1.5A used to support extra function sub PCBs)
1	U3	4013	DIL14	DIP CMOS 4000
1	U4	4072	DIL14	DIP CMOS 4000
1	U7	4041	DIL14	DIP CMOS 4000
1	U8	LF347	DIL14	Any Quad Op Amp will work here. (TL07x for exmaple)

Sub-totals:

0 Transistors

Quantity	References	Value	PCB Package	Notes
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Sub-totals:

2 Diodes

Quantity	References	Value	PCB Package	Notes
2	D1-D2	DIODE	DIODE30	Small Signal Switching Diode (1N4148 or equivalent)

Sub-totals:

40 Miscellaneous

Quantity	References	Value	PCB Package	Notes
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16	+5,+12,-12,0V,B1IL,B1IM,B1L,B1M,B2IL,B2IM,B2L,B2M,NOR1-NOR2,P1I,P2I	CONN-SIL1	CONN-SIL1	On PCB Solder Pads. (no component needed)
11	BP1-BP11	100nF	0805	0805 SMT COG/NP0 MLCC Bypass/Decoupling Capacitors
2	FB1-FB2	0R	RES40	Axial Ferrite Bead
1	J1	SIL-156-04	SIL-156-04	MTA-156 Friction Lock Power Header
6	LED1-LED6	LED-BIRG	CONN-SIL2	2-Lead BiColor LEDs (LED5 and LED6 can be single color.)
2	PF1-PF2	10uF	ELEC-RAD10	Electrolytic Power Filtering Capacitor (10uF - 100uF is fine)
2	SW1-SW2	SW-SPST	CONN-SIL2	SPST Momentary Pushbutton (arcade type work well)

Sub-totals:

Totals:

Tuesday, September 10, 2024 9:29:43 AM