

Bill Of Materials for PulseLatch

Design Title	PulseLatch
Author	Dustin Stroh (J3RK)
Document Number	
Revision	REV 1.2
Design Created	Wednesday, March 20, 2024
Design Last Modified	Monday, September 9, 2024
Total Parts In Design	73

0 Modules

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

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
1	C3	100nF	CAP10	C0G/NP0 MLCC / Ceramic / Film
1	C4	4.7uF	CAP10	X7R Ceramic / MLCC / Film (Electrolytic OK too, but check polarity!!!)
2	C5-C6	2200pF	CAP10	C0G/NP0 MLCC / Ceramic / Film

Sub-totals:

16 Resistors

Quantity	References	Value	PCB Package	Notes
3	R1-R2,R13	10K	RES40	1/4W 50-100PPM 1% Resistor
4	R3-R6	680R	RES40	1/4W 50-100PPM 1% Resistor
4	R7-R10	100R	RES40	1/4W 50-100PPM 1% Resistor
2	R11-R12	4.99K	RES40	1/4W 50-100PPM 1% Resistor
1	R14	100K	RES40	1/4W 50-100PPM 1% Resistor
2	R15-R16	220R	RES40	

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 exmple)

Sub-totals:

0 Transistors

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

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

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">PCB Package</a>	<a href="#">Notes</a>
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:

Monday, September 9, 2024 8:43:19 AM