

Bill Of Materials for SHIFTY-Register

Design Title	SHIFTY-Register
Author	Dustin "J3RK" Stroh
Document Number	
Revision	1.2
Design Created	Tuesday, September 10, 2024
Design Last Modified	Tuesday, September 10, 2024
Total Parts In Design	43

0 Modules

Quantity	References	Value	PCB Package	Notes
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Sub-totals:

5 Capacitors

Quantity	References	Value	PCB Package	Notes
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1	C1	100nF	CAP10	C0G/NP0 MLCC/ Ceramic / Film
1	C2	47pF	CAP10	C0G/NP0 MLCC/ Ceramic / Film
1	C3	330nF	CAP10	C0G/NP0 MLCC/ Ceramic / Film
1	C4	10nF	CAP10	C0G/NP0 MLCC/ Ceramic / Film
1	C5	4.7uF	CAP10	C0G/NP0 MLCC/ Ceramic / Film

Sub-totals:

12 Resistors

Quantity	References	Value	PCB Package	Notes
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1	R1	100K	RES40	1% (100PPM / 50PPM Recommended)
6	R2-R5,R7,R9	10K	RES40	1% (100PPM / 50PPM Recommended)
1	R6	10k	RES40	1% (100PPM / 50PPM Recommended)
1	R8	100k	RES40	1% (100PPM / 50PPM Recommended)
2	R10-R11	20K	RES40	1% (100PPM / 50PPM Recommended)
1	R12	100R	RES40	1% (100PPM / 50PPM Recommended)

Sub-totals:

6 Integrated Circuits

Quantity	References	Value	PCB Package	Notes
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2	U1,U3	4094	SO16	SOIC CMOS 4000
1	U2	4070	SO14	SOIC CMOS 4000
1	U4	40106	SO14	SOIC CMOS 4000
1	U5	TL071	SO8	SOIC Any since op amp. TL071, LF356, etc.
1	U6	7805	TO220	TO220 +5V 7805 Regulator

Sub-totals:

1 Transistors

Quantity	References	Value	PCB Package	Notes
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1	Q1	2N3904	TO92	Any standard TO-92 NPN Transistor (EBC Pinout on board.)
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Sub-totals:

0 Diodes

Quantity	References	Value	PCB Package	Notes
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Sub-totals:

19 Miscellaneous

Quantity	References	Value	PCB Package	Notes
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6	+5,+12,-12,0V,IN, NOISE	CONN-SIL1	CONN-SIL1	On PCB Solder Pads. (no component needed)
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6	BP1-BP6	100nF	0805	Decoupling / Bypass SMT0805 Capacitors. C0G/NP0 Preferred
2	FB1-FB2	0R	RES40	1% (100PPM / 50PPM Recommended)
1	J1	SIL-156-04	SIL-156-04	MTA-156 Friction Lock Power Header.
2	PF1-PF2	10uF	ELEC-RAD13	Power Filtering Electrolytic Capacitors
2	SW1-SW2	SW-ROT-3	CONN-SIL4	PCB Pads for SP3T (wired as 3-way selector) switches.

Sub-totals:

Totals:

Tuesday, September 10, 2024 11:39:50 AM