Bill Of Materials for SHIFTY-Register

Design TitleSHIFTY-RegisterAuthorDustin "J3RK" Stroh

Document Number

Revision 1.3

Design Created Wednesday, December 4, 2024 **Design Last Modified** Wednesday, December 4, 2024

Total Parts In Design 49

10001	arto in Boorgii						
0 Modules							
	<u>References</u>	<u>Value</u>	<u>PCB</u>	<u>Notes</u>			
			<u>Package</u>				
Sub-totals:							
5 Capa		<u>Value</u>	<u>PCB</u>	<u>Notes</u>			
Quality	<u>References</u>	<u>value</u>	Package	Notes			
1	C1	100nF	CAP10	COG/NP0 MLCC/ Ceramic / Film			
1	C2	47pF	CAP10	COG/NP0 MLCC/ Ceramic / Film			
1	C3	330nF	CAP10	C0G/NP0 MLCC/ Ceramic / Film			
1	C4	10nF	CAP10	COG/NP0 MLCC/ Ceramic / Film			
1	C5	4.7uF	CAP10	C0G/NP0 MLCC/ Ceramic / Film			
Sub-total:							
14 Res			505				
Quantity	<u>References</u>	<u>Value</u>	<u>PCB</u> <u>Package</u>	<u>Notes</u>			
3	R1,R13-R14	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-total:	s:						
7 Integrated Circuits							
Quantity	<u>References</u>	<u>Value</u>	<u>PCB</u> <u>Package</u>	<u>Notes</u>			
2	U1,U3	4094	SO16	SOIC CMOS 4000			
1	U2	4070	SO14	SOIC CMOS 4000			
1	U4	40106	SO14	SOIC CMOS 4000			
2	U5,U7	TL071	SO8	SOIC Any since op amp. TL071, LF356, etc.			
1	U6	7805	TO220	TO220 +5V 7805 Regulator			
Sub-totals:							
1 Trans		Value	DOD	Netes			
<u>Quantity</u>	References	<u>Value</u>	PCB Package	<u>Notes</u>			
1	Q1	2N3904	TO92	Any standard TO-92 NPN Transistor (EBC Pinout on board.)			
Sub-totals:							
0 Diodes							
Quantity	References	<u>Value</u>	PCB Package	<u>Notes</u>			
Sub-totals:							
22 Miscellaneous							
<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>PCB</u> <u>Package</u>	<u>Notes</u>			
7	+5,+12,-5,-12,0V, NOISE	N, CONN- SIL1	CONN-SIL1	On PCB Solder Pads. (no component needed)			

8	BP1-BP8	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:

Wednesday, December 4, 2024 12:13:19 PM