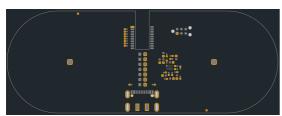
Silicon Witchery S1 ECG Kit | Bill of Materials

Main BOM - 12 December 2022

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Part Name							
220nF 16V Ceramic Cap	GCM155R71C224KE02D	Murata	C1, C2	0402	2	Digikey: <u>490-10671-1-ND</u>	-
1uF 6.3V Ceramic Cap	GRM155R70J105KA12J	Murata	C3	0402	1	Digikey: 490-13339-1-ND	-
1nF 50V Ceramic Cap	GRM1555C1H102JA01D	Murata	C4	0402	1	Digikey: <u>490-3244-1-ND</u>	-
100nF 16V Ceramic Cap	GCM155R71C104KA55D	Murata	C5	0402	1	Digikey: <u>490-4759-1-ND</u>	-
10uF 6.3V Ceramic Cap	GRM155R60J106ME15D	Murata	C6	0402	1	Digikey: 490-13238-1-ND	-
22nF 50V Ceramic Cap	GCM155R71H223KA55D	Murata	C7	0402	1	Digikey: <u>490-4763-1-ND</u>	-
10nF 50V Ceramic Cap	GCM155R71H103KA55D	Murata	C8	0402	1	Digikey: <u>490-4762-1-ND</u>	-
0.1" 2-Pin Header	GREC002SBSN-M89RC	Sullins	J5	SMD	1	Digikey: S1113EC-02-ND	-
USB Type-C Connector	DX07S016JA1R1500 (Drawing)	JAE	J6	SMD	1	Mouser: 656-DX07S016JA1R1500	-
150mAh LiPo Battery	LP402025	PKCell	J7	20x26mm	1	Adafruit: 1317	See back silkscreen for polarity
White LED	<u>IN-S63AT5UW</u>	Inolux	LED1-LED7	0603	7	Mouser: 743-IN-S63AT5UW	See Front View image for Cathode mark
S1 Module	S1-MOD	Silicon Witchery	MOD1	SMD	1	Silicon Witchery	See Front View image for Pin 1 location
182k Film Resistor	RC0201FR-07182KL	Yageo	R2, R4	0201	2	Digikey: YAG2451CT-ND	-
10M Film Resistor	RC0201JR-0710ML	Yageo	R1, R3, R5-R8	0201	6	Digikey: YAG2861CT-ND	-
499k Film Resistor	RC0201FR-07499KL	Yageo	R9	0201	1	Digikey: YAG2699CT-ND	-
200k Film Resistor	RC0201FR-07200KL	Yageo	R10	0201	1	Digikey: YAG2275CT-ND	-
100k Film Resistor	RC0201JR-07100KL	Yageo	R12, R13	0201	2	Digikey: 311-100KNCT-ND	
1M Film Resistor	RC0201FR-071ML	Yageo	R11, R14	0201	2	Digikey: <u>311-1MMCT-ND</u>	-
5.1k Film Resistor	RC0201FR-075K1L	Yageo	R15, R16	0201	2	Digikey: <u>YAG2741CT-ND</u>	-
655R Film Resistor	RC0201FR-07649RL	Yageo	R17-R23	0201	7	Digikey: YAG2761CT-ND	-
ECG Amplifier IC	AD8233ACBZ-R7	Analog Devices	U1	WLCSP-20	1	Digikey: AD8233ACBZ-R7CT-ND	See Front View image for Pin 1 location
0.1" Jumper	QPC02SXGN-RC	Sullins	-	-	1	Digikey: <u>S9337-ND</u>	Goes on J5
РСВ	-	-	-	-	1	-	-
Tatal Uniona Danta	-	-	-		22	-	_
Total Unique Parts	-	-	-	-		-	-
Total Parts	-	-	-	-	42	-	

Front View with Pin 1 highlighted



Reference image



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