Saintcon Minibadge Holder 8 2024 BOM								
Reference	Qty	Value	Footprint	Description	Link			
C1,C2,C7	3	10uF	Capacitor_SMD:C_0603_1608Metric	Ceramic Capacitor	https://www.digikey.com/en/products/detail/cal-chip-electronics	s-inc/GMC10X5R1	106M10NT/18151	101
C3,C4,C6	3	0.1uF	Capacitor_SMD:C_0603_1608Metric	Ceramic Capacitor	https://www.digikey.com/en/products/detail/samsung-electro-m	nechanics/CL10B1	104KB8NNWC/38	87593
5		1uF	Capacitor_SMD:C_0603_1608Metric	Ceramic Capacitor	https://www.digikey.com/en/products/detail/samsung-electro-m	nechanics/CL10B1	105KP8NFNC/388	37603
)1		LED Tester Pads	GiantLEDTester	LED Tester Pads	N/A			
2		LED	LED_SMD:LED_0603_1608Metric_Pad1.05x0.95mm_HandSolder	0603 LED	https://www.digikey.com/en/products/detail/ams-osram-usa-ind	/LS-Q976-01-N10	Q2-1/21556498	
1,J2,J3,J4,J5,J6,J7,J8	8	SAINTCON-Minibadge	minibadge_kicad:SAINTCON-Minibadge-Shiny	Minibadge Slot - 2x 8-Pin Female Header, 0.1" Pitch (16 total headers)	https://www.aliexpress.us/item/2251832231088676.html			
9		USB_C_Receptacle_USB2.0	Connector_USB:USB_C_Receptacle_XKB_U262-16XN-4BVC11	USB-C Port	https://www.mouser.com/ProductDetail/640-USB4105-GF-A			
1,R2	2	5.1k	Resistor_SMD:R_0603_1608Metric	0603 Resistor	https://www.digikey.com/en/products/detail/bourns-inc/CR0603	3-FX-5101ELF/37	84064	
R3		20k	Resistor_SMD:R_0603_1608Metric	0603 Resistor	https://www.digikey.com/en/products/detail/bourns-inc/CR0603	3-JW-203ELF/374	1006	
R4		8.45k	Resistor_SMD:R_0603_1608Metric	0603 Resistor	https://www.digikey.com/en/products/detail/stackpole-electroni	cs-inc/RMCF0603	BFT8K45/1761242	2
15		150	Resistor_SMD:R_0603_1608Metric	0603 Resistor	https://www.digikey.com/en/products/detail/walsin-technology-	corporation/WR06	X151-JTL/132388	<u>810</u>
16		1k	Resistor_SMD:R_0603_1608Metric	0603 Resistor	https://www.digikey.com/en/products/detail/walsin-technology-	corporation/WR06	X102-JTL/132411	138
11		TLV1117LV33DCYR	Package_TO_SOT_SMD:SOT-223-3_TabPin2	Voltage Regulator - 3.3V, 1A	https://www.mouser.com/ProductDetail/595-TLV1117LV33DCY	<u>′R</u>		
12		74LV4060D,118	Package_SO:SOIC-16_3.9x9.9mm_P1.27mm	14-bit Binary Ripple Counter with Oscillator (generates CLK signal)	https://www.mouser.com/ProductDetail/771-74LV4060D-T			
3		TPM8837C	Package_SO:SOIC-8_3.9x4.9mm_P1.27mm	Motor Driver (for driving the CLK pins)	https://www.digikey.com/en/products/detail/3peak/TPM8837C-	SO1R/22229382		
15		AP22816BKAWT	Package_TO_SOT_SMD:SOT-23-5	USB Load Switch (overcurrent/short circuit protection)	https://www.mouser.com/ProductDetail/Diodes-Incorporated/A	P22818BKAWT-7	?qs=7D1LtPJG0i0	00w4y0p06PMw%3D%3D
(1		Conn_02x10_Odd_Even	Pin_Headers:Pin_Header_Straight_2x10_Pitch2.54mm	20Pin Minibadge Expansion Connector	https://www.digikey.com/en/products/detail/cvilux-usa/CH8720	2V201/15519176		