RoboSAX LED box

Item	Reference(s)	Value	LibPart	Footprint	Footprint Datasheet Populate Qty		Part Su	Part Suppl Elecrow ID Elecrow Part Elecrow Value			Supplier link	Price Piece	Price Piece Price Sur	
1	C201; C301	10u	device:C	Capacitors_SMD:C_0805	0805	2	Elecrov	16532	C15850	10uF (106) ±10% 25V		0	1	
	C202; C408; C409	22p	device:C	Capacitors_SMD:C_0805	0805	Prototype 3	Elecrov	2156	C1804	22pF (220) ±5% 50V		0	,	
	C203	470p	device:C	Capacitors_SMD:C_0805	0805	1	Elecrov	2095	C1743	470pF (471) ±10% 50\		0	,	
	C302; C401; C402; C403; C404; C405; C407; C502; C503	100n	device:C	Capacitors_SMD:C_0805	0805	9	Elecrov	50686	C49678	100nF(104) ±10% 50V		0	,	
	C501	4u7	device:CP	Capacitors_THT:CP_Radial_D5.0mm_P2.00mm		1	DNP					0	,	
	C504	47u	device:CP	Capacitors_THT:CP_Radial_D6.3mm_P2.50mm		1	DNP					0	,	
	CON401	AVR_ISP	atmel:AVR-ISP-6	Pin_Headers:Pin_Header_Straight_2x03		1	DNP					0	,	
	D201; D202; D501	1N4148	device:D	Diodes_SMD:D_SOD-123	SOD-123	3	Digikey				https://www.digikey.de/product-detail/de/smc-diode-solutions/1N4148WTR/1655-1360-1-ND/6022805	0,03872	0,11	
	D301	changes	RGB LED			1	Digikey					0,5	5	
	D302	LED1	device:LED	LEDs:LED_0805	0805	1	Digikey				https://www.digikey.de/product-detail/de/lite-on-inc/LTST-C171GKT/160-1423-1-ND/386792	0,06080	0,0	
	D303; D502	LED2	device:LED	LEDs:LED_0805	0805	2	Digikey				https://www.digikey.de/product-detail/de/lite-on-inc/LTST-C171GKT/160-1423-1-ND/386792	0,06080	0,12	
	J201	Bus	ledbox-cache:Conn_02x05_Odd_Even	Pin_Headers:Pin_Header_Straight_2x05		1	DNP					0	,	
П	J301	IR LED	ledbox-cache:Conn_01x03	Pin_Headers:Pin_Header_Straight_1x03		1	DNP					0	,	
	J302	Button	ledbox-cache:Conn_01x02	Pin_Headers:Pin_Header_Straight_1x02		1	DNP					0	i	
	J401	Power	ledbox-cache:Conn_02x03_Odd_Even	Socket_Strips:Socket_Strip_Straight_2x03		1	DNP					0	j	
	J402	Power	ledbox-cache:Conn_02x04_Odd_Even	Socket_Strips:Socket_Strip_Straight_2x04		1	DNP					0	j	
	J403	Power	ledbox-cache:Conn_02x05_Odd_Even	Socket_Strips:Socket_Strip_Straight_2x05		1	DNP					0	,	
	J404	Port D	ledbox-cache:Conn_01x03	Socket_Strips:Socket_Strip_Straight_1x03		1	DNP					0	,	
А	J405	Port B	ledbox-cache:Conn_01x04	Socket_Strips:Socket_Strip_Straight_1x04		1	DNP					0	,	
	J406	Port C	ledbox-cache:Conn_01x05	Socket_Strips:Socket_Strip_Straight_1x05		1	DNP					0	,	
	J407	ADC6	ledbox-cache:Conn_01x03	Socket_Strips:Socket_Strip_Straight_1x03		1	DNP					0	,	
	J408	ADC7	ledbox-cache:Conn_01x03	Socket_Strips:Socket_Strip_Straight_1x03		1	DNP					0	,	
4	J501	6.5V-12V	ledbox-cache:Conn_01x02	Connectors_Terminal_Blocks:TerminalBlock_Pheonix_MKDS1.5-2pol		1	DNP					0	,	
4	J502	5V	ledbox-cache:Conn_01x02	Connectors_Terminal_Blocks:TerminalBlock_Pheonix_MKDS1.5-2pol		1	DNP					0	,	
	R201; R203; R401; R402; R403	1k	device:R	Resistors_SMD:R_0805	0805	Prototype 5	Elecrov	18201	C17513	1KΩ (1001) ±1%		0	,	
Л	R202	150Ω	device:R	Resistors_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal		Prototype 1	DNP					0	,	
4	R204; R301; R302; R303; R310	10k	device:R	Resistors_SMD:R_0805	0805	5	Elecrov	18102	C17414	10KΩ (1002) ±1%		0	,	
	R205	100Ω	device:R	Resistors_SMD:R_0805	0805	1	Elecrov	18096	C17408	100Ω (1000) ±1%		0	,	
Л	R206	22k	device:R	Resistors_SMD:R_0805	0805	1	Elecrov	18248	C17560	22KΩ (2202) ±1%		0	,	
	R207	3k3	device:R	Resistors_SMD:R_0805	0805	1	Digikey			, ,	https://www.digikey.de/product-detail/de/stackpole-electronics-inc/RMCF0805JT3K30/RMCF0805JT3K30CT-ND/1942567	0,00540	0,0	
	R208	2k2	device:R	Resistors_SMD:R_0805	0805	1	Digikey				https://www.digikey.de/product-detail/de/stackpole-electronics-inc/RMCF0805JT2K20/RMCF0805JT2K20CT-ND/1942563	0,00540		
4	R304	150Ω	device:R	Resistors_SMD:R_0805	0805	1	Elecrov		C17471	150Ω (1500) ±1%		0	,	
	R305; R311	82Ω	device:R	Resistors_SMD:R_0805	0805	2	Elecrov		C17841	82Ω (82R0) ±1%		0	,	
\dashv	R306; R307	22Ω	device:R	Resistors_SMD:R_0805	0805	2	Elecrov	18249	C17561	22Ω (22R0) ±1%		0	,	
	R308; R309; R501	430Ω	device:R	Resistors_SMD:R_0805	0805	3	Digikey				https://www.digikey.de/product-detail/de/stackpole-electronics-inc/RMCF0805JT430R/RMCF0805JT430RCT-ND/1942550	0,00540	0,0	
	SW301	Reset	ledbox-cache:SW_Push	Buttons_Switches_THT:SW_PUSH_6mm_h5mm		1	DNP					0	,	
4	SW302	Push 1	ledbox-cache:SW_Push	Buttons_Switches_THT:SW_PUSH_6mm_h5mm		1	DNP					0	,	
	SW303	Push 2	ledbox-cache:SW_Push	Buttons_Switches_THT:SW_PUSH_6mm_h5mm		1	DNP					0	,	
	U201	ST485C	ledbox-newsymbols:SN75176B	Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm	SOIC 8 http://www	v.s Yes 1	Digikey				https://www.digikey.de/product-detail/de/stmicroelectronics/ST485CDR/497-3734-1-ND/686452	0,46690	0,4	
	U301	ULN2003	interface:ULN2003	Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm		v.ti.com/lit/ds/ 1	Digikey				https://www.digikey.de/product-detail/de/on-semiconductor/ULN2003ADR2G/ULN2003ADR2GOSCT-ND/2623488	0,22410		
	U401		J atmel:ATMEGA88A-AU	Housings_QFP:TQFP-32_7x7mm_Pitch0.8mm	TQFP 32	1	Digikey				https://www.digikey.de/product-detail/de/microchip-technology/ATMEGA88A-AU/ATMEGA88A-AU-ND/2271018	1,05730		
	U501	AZ1117-5.0	regul:AZ1117-5.0	TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2	SOT 223	1	Digikey				https://www.digikey.de/product-detail/de/diodes-incorporated/AZ1117CH-5.0TRG1/AZ1117CH-5.0TRG1DICT-ND/4505207	0,14510		
	Y401	20MHz	device:Crystal	Crystals:Crystal_HC49-SD_SMD	HC49/SU	Prototype 1	Digikey				https://www.digikey.de/product-detail/de/abracon-llc/ABLS-20.000MHZ-B2-T/535-9074-1-ND/675591	0,15040		
		20.11112	2011010170101	2.,2.3.3.3.,3.3.			Digitoy				The state of the s	3,130-70	2,869	