

BOM Selftest Board
610-1010-021

Component for this board has been selected to be not expensive and available over the world. The quantity specified on the BOM are the required quantity and not the quantity received because most of the components sales by AliExpress are coming in a lot of 5 or more.

ITEM	Ref	Qty	Value	Component number	Component Link	Footprint
1	C1,	1	0.1uF	104(0.1uF)	https://www.aliexpress.com/item/1005002290441861.html?spm=a2g0o.cart.0.0.47a938dapeqfLF&mp=1	Capacitor_THT:C_Disc_D6.0mm_W2.5mm_P5.00mm
2	C2, C3,	2	10uF	Need 10uF only	https://www.aliexpress.com/item/1005001831366715.html?spm=a2g0o.order_list.order_list_main.128.18751802TGrCM3	Capacitor_THT:CP_Radial_D4.0mm_P1.50mm
3	D1, D2, D3,	3	1N4148	D0-35	https://www.aliexpress.com/item/1005002761024460.html?spm=a2g0o.order_list.order_list_main.134.18751802TGrCM3	Diode_THT:D_DO-35_SOD27_P7.62mm_Horizontal
4	D4, D5	2	Red,Green Led 3m	5 color mixing	https://www.aliexpress.com/item/32890682652.html?spm=a2g0o.cart.0.0.484b38da3R3jzV&mp=1	LED_THT:LED_D3.0mm
5	J1, J2,	2	9001-14961C00A	396-RA-F	https://www.aliexpress.com/item/32808173331.html?spm=a2g0o.order_detail.order_detail_item.3.8a9af19cRF49dn	9001-11961:900114961C00A
6	J3,	1	RJ45	NO LED 180 Degress	https://www.aliexpress.com/item/4001249545815.html?spm=a2g0o.order_list.order_list_main.5.21ef18023ghtdr	RJ45:CUI_CRJ028-1H-TH
7	J4,	1	USB-VERTICAL	USB-A1VSB6	https://www.aliexpress.com/item/1005003366091753.html?spm=a2g0o.order_detail.order_detail_item.3.16c6f19cv420cM	USB-A:ONSHORE_USB-A1VSB6
8	J5, J6,	2	8 x 2.54mm	Cut to length	https://www.aliexpress.com/item/1005005053790061.html?spm=a2g0o.order_list.order_list_main.16.2c1a1802vA8wf5	Connector_PinSocket_2.54mm:PinSocket_1x08_P2.54mm_Vertical
9	K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11, K12,K13,K14,K15,K16,K17	17	TQ2-5	TQ2-5V	https://www.aliexpress.com/item/1005004349797638.html?spm=a2g0o.order_detail.order_detail_item.3.29bdf19cH6EBpl	Relay_THT:Relay_DPDT_FRT5
10	R1,	1	100	1% 1/4W Resistor Kit	https://www.aliexpress.com/item/1005001818485416.html?spm=a2g0o.cart.0.0.405a38daqyYISw&mp=1	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal
11	R2,R12,	2	10	10R 3W	https://www.aliexpress.com/item/1005005249422833.html?spm=a2g0o.cart.0.0.6c0b38dax2jDld&mp=1	Resistor_THT:R_Axial_DIN0617_L17.0mm_D6.0mm_P25.40mm_Horizontal
12	R3, R4, R10,R11	2	10K	1% 1/4W Resistor Kit	https://www.aliexpress.com/item/1005001818485416.html?spm=a2g0o.cart.0.0.405a38daqyYISw&mp=1	Resistor_THT:R_Axial_DIN0309_L9.0mm_D3.2mm_P12.70mm_Horizontal
13	R6,	1	10	1% 1/4W Resistor Kit	https://www.aliexpress.com/item/1005001818485416.html?spm=a2g0o.cart.0.0.405a38daqyYISw&mp=1	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal
14	R5,R7	2	4.7	1% 1/4W Low value Resistor Kit	https://www.aliexpress.com/item/4000174550644.html?spm=a2g0o.order_list.order_list_main.47.641f1802HxQ52S	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal
15	R8, R9, R13, R14	2	4.7K	1% 1/4W Resistor Kit	https://www.aliexpress.com/item/1005001818485416.html?spm=a2g0o.cart.0.0.405a38daqyYISw&mp=1	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal
16	R13, R14	2	Not Installed	1% 1/4W Resistor Kit	https://www.aliexpress.com/item/1005001818485416.html?spm=a2g0o.cart.0.0.405a38daqyYISw&mp=1	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal
17	R15,	1	470	1% 1/4W Resistor Kit	https://www.aliexpress.com/item/1005001818485416.html?spm=a2g0o.cart.0.0.405a38daqyYISw&mp=1	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal
18	R16,	1	330	1% 1/4W Resistor Kit	https://www.aliexpress.com/item/1005001818485416.html?spm=a2g0o.cart.0.0.405a38daqyYISw&mp=1	Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P10.16mm_Horizontal
19	U1,	1	Raspberry Pico	SC0915	https://www.digikey.ca/en/products/detail/raspberry-pi/SC0915/13624793?s=N4lgTCBcDaIMoGEAMBOAJAVhAXQL5A	MCU_RaspberryPi_and_Boards:RPi_Pico_SMD_TH
20	U1_male_pin	1	20 x 2.54mm	1x40P male L-11.96mm	https://www.aliexpress.com/item/1005005053790061.html?spm=a2g0o.order_list.order_list_main.16.2c1a1802vA8wf5	optionnal
21	U1_socket	1	20 x 2.54mm	1x40P Female Gold	https://www.aliexpress.com/item/1005005053790061.html?spm=a2g0o.order_list.order_list_main.16.2c1a1802vA8wf5	optionnal
22	U2, U3,	2	ULN2003A	ULN2003AN DIP	https://www.aliexpress.com/item/1005003321113000.html?spm=a2g0o.order_list.order_list_main.55.68501802kRK9e9	Package_DIP:DIP-16_W7.62mm_LongPads
23	U2_socket, U3_socket,	2	16 pin socket	round hole DIP-16p	https://www.aliexpress.com/item/4000578067926.html?spm=a2g0o.cart.0.0.2bcc38da88bsXx&mp=1	Package_DIP:DIP-16_W7.62mm_LongPads
24	U4, U5	2	DS2431	Memory	https://www.aliexpress.com/item/1005003797567885.html?spm=a2g0o.cart.0.0.784438daDlqgr6&mp=1	Package_TO_SOT_THT:TO-92_Inline
25	U4_socket, U5_socket	2	3 x 2.54mm	1x40P Female Gold	https://www.aliexpress.com/item/1005005053790061.html?spm=a2g0o.order_list.order_list_main.16.2c1a1802vA8wf5	optionnal
26	TP6.TP3,TP37,TP38	4	Testpoint	Black,Blue,Red,Yellow	https://www.aliexpress.com/item/1005001843784820.html?spm=a2g0o.cart.0.0.7faa38daxJjUNz&mp=1	TestPoint_Loop_D2.54mm_Drill1.5mm_Beaded
27	PCB Selftest Board	1	660-1010-021		https://ilcpcb.com/	