

Super Mini Mega Tester BOM								
Item #	Reference Designator	Qty	Manufacturer	Mfg Part #	Description / Value	Package/Footprint	Type	Instructions / Notes
1	C1	1	Panasonic	ECE-A1EKS4R7I	CAP ALUM 4.7UF 20% 25V RADIAL	2.5mm Radial	THRU-HOLE	
2	C2,C3,C4,C5,C6,C7,C8,C9	8	KEMET	C320C104K5R5TA7317	0.1 µF ±10% 50V Ceramic Capacitor X7R Radial	2.5mm Radial	THRU-HOLE	
3	D1	1	Kingbright	WP7113ID	LED RED DIFFUSED T-1 3/4 T/H	T-1 3/4	THRU-HOLE	
4	J1,J5	0						Do Not Install
5	J2,J3	2	Würth Elektronik	61304021821	40 Position Receptacle 2.54mm Through Hole Gold	40POS	THRU-HOLE	
6	J4	1	Sullins	PPTC041LFBN-RC	CONN HDR 4POS 0.1 TIN FEMALE	4POS	THRU-HOLE	User will plug in an OLED display
7	JP1,JP2,JP3,JP4,JP5,JP6,JP7,JP8,JP9,JP10,JP11,JP12,JP13,JP14,JP15	0						Do Not Install
8	Q1,Q2	2	Onsemi	2N7000	MOSFET TO92 N 60V 0.2A 50HM 150C	TO-92	THRU-HOLE	
9	R1	1	YAGEO	CFR-25JR-52-680R	RES 680 OHM 5% 1/4W AXIAL	Axial	THRU-HOLE	
10	R2,R3,R4,R5,R6	5	YAGEO	CFR-25JR-52-10K	RES 10K OHM 5% 1/4W AXIAL	Axial	THRU-HOLE	
11	SW1	1	Alps Alpine	EC11E18244A5	Rotary Encoder Incremental 18 Quadrature Vertical	PC PIN	THRU-HOLE	
12	U1	2	Sullins	PPTC081LFBN-RC	CONN HDR 8POS 0.1 TIN FEMALE	8POS	THRU-HOLE	Install two headers User will plug in an ESP32-C3 module
13	U2,U3,U4,U5,U6	5	Microchip	MCP23017-E/SP	IC XPNDR 1.7MHZ I2C 28SDIP	DIP28	THRU-HOLE	