

# ESP32-WROOM-32E Board Bill of Materials

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Reference	Value	Description	Manufacturer	MPN	Mouser #
C1, C2, C4, C6, C9	4u7	X7R, 16 VDC, 10%	Murata	GRM21BR71C475KE51K	<a href="#">81-GRM21BR71C475KE1K</a>
C3, C5, C7	100n	X7R, 100 VDC, 10%	Samsung	CL21B104KCFNNNE	<a href="#">187-CL21B104KCFNNNE</a>
C8	22u	X5R, 6.3 VDC, 10%	Samsung	CL21A226KQCLRNC	<a href="#">187-CL21A226KQCLRNC</a>
D1	TVSx3	5.5V	Littlefuse	<a href="#">SP0503BAHTG</a>	<a href="#">576-SP0503BAHTG</a>
J1	USB 2.0 Type-C	16 P, 5 A	GCT	USB4105-GF-A-120	<a href="#">640-USB4105-GF-A-120</a>
J2, J3	PinHeader 2x08 0.1"	6.10 mm, 3.10 mm, gold	Harwin	M20-9980745	<a href="#">855-M20-9980745</a>
Q1	NPNx2	50 V, 100 mA, R1=10k	Toshiba	RN1911	<a href="#">757-RN1911LFCT</a>
R1, R2, R6	5k1	125 mW, 1%	Yageo	RC0805FR-075K1L	<a href="#">603-RC0805FR-075K1L</a>
R3	1k	125 mW, 1%	Yageo	RC0805FR-071KL	<a href="#">603-RC0805FR-071KL</a>
R4	22k1	125 mW, 1%	Yageo	RC0805FR-0722K1L	<a href="#">603-RC0805FR-0722K1L</a>
R5	47k5	125 mW, 1%	Yageo	RC0805FR-0747K5L	<a href="#">603-RC0805FR-0747K5L</a>
SW1	Tactile	Tactile, 50 mA, 12 VDC, 6.0x3.5, 2.5 mm	C&K	<a href="#">PTS636 SK25 SMTR LFS</a>	<a href="#">611-PTS636SK25SMTRLF</a>
U1	ESP32-WROOM-32E	16 MB QIO flash	Espressif	<a href="#">ESP32-WROOM-32E-N16</a>	<a href="#">356-ESP32WRM32E128PH</a>
U2	CP2102N-A02-GQFN24	TX, RX, RTS, CTS, DTR, DSR, DCD, RI	Silicon Labs	<a href="#">CP2102N-A02-GQFN24</a>	<a href="#">634-CP2102NA02GQFN24</a>
U3	AP2115M-3.3	3.3 VOUT, 1 AOUT, 2.5-6 VIN	Diodes Incorporated	<a href="#">AP2115M-3.3TRG1</a>	<a href="#">621-AP2115M-3.3TRG1</a>