

ESP32-S3-WROOM-1 Board

Bill of Materials

2023-02-20 :: Rev 3 :: LibTec Inst.

Reference	Value	Description	Manufacturer	MPN	Mouser #
C1, C2	4u7	X7R, 16 VDC, 10%	Murata	GRM21BR71C475KE51K	81-GRM21BR71C475KE1K
C3, C5	100n	X7R, 100 VDC, 10%	Samsung	CL21B104KCFNNNE	187-CL21B104KCFNNNE
C4	22u	X5R, 6.3 VDC, 10%	Samsung	CL21A226KQCLRNC	187-CL21A226KQCLRNC
J1	USB_C_Receptacle_USB2.0	16 P, 5 A	GCT	USB4105-GF-A-120	640-USB4105-GF-A-120
J2, J3	PinHeader_02x10_P2.54mm	5.84 mm, 3.05 mm	Amphenol	10129381-920001BLF	649-1012938192001BLF
R1, R2, R5	5k1	125 mW, 1%	Yageo	RC0805FR-075K1L	603-RC0805FR-075K1L
R3, R4	0R	125 mW, 5%	Yageo	RC0805JR-070RL	603-RC0805JR-070RL
SW1	SW_Push	Tactile, 50 mA, 12 VDC, 6.0x3.5, 2.5 mm	C&K	PTS636 SK25 SMTR LFS	611-PTS636SK25SMTRLF
U1	ESP32-S3-WROOM-1	8 MB PSRAM, 16 MB Flash, PCB Antenna	Espressif	ESP32-S3-WROOM-1-N16R8	356-ESP32S3WRM1N16R8
U2	AP2115M-3.3	3.3 VOUT, 1 AOUT, 2.5-6 VIN	Diodes Incorporated	AP2115M-3.3TRG1	621-AP2115M-3.3TRG1