

# LBT1000

## Bill of Materials

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#	Reference	Value	Description	Manufacturer	MPN	Mouser #
1	C1, C2, C3, C4, C5	4u7	X7R, 16 VDC, 10%	Murata	GRM21BR71C475KE51K	<a href="#">81-GRM21BR71C475KE1K</a>
2	C6	22u	X5R, 6.3 VDC, 10%	Samsung	CL21A226KQCLRNC	<a href="#">187-CL21A226KQCLRNC</a>
3	D1	TVSx3	5.5V	Littlefuse	<a href="#">SP0503BAHTG</a>	<a href="#">576-SP0503BAHTG</a>
4	J1	USB 2.0 Type-C	16 P, 5 A	GCT	<a href="#">USB4105-GF-A-120</a>	<a href="#">640-USB4105-GF-A-120</a>
5	J2, J3	PinSocket 2x08 0.1"	5.80 mm, 3.10 mm, gold pin, tin tale	Wurth	61301621821	<a href="#">710-61301621821</a>
6	Q1	NPNx2	50 V, 100 mA, R1=10k	Toshiba	RN1911,LF	<a href="#">757-RN1911LFCT</a>
7	R1, R2, R6	5k1	125 mW, 1%	Yageo	RC0805FR-075K1L	<a href="#">603-RC0805FR-075K1L</a>
8	R3	1k	125 mW, 1%	Yageo	RC0805FR-071K1L	<a href="#">603-RC0805FR-071K1L</a>
9	R4	22k1	125 mW, 1%	Yageo	RC0805FR-0722K1L	<a href="#">603-RC0805FR-0722K1L</a>
10	R5	47k5	125 mW, 1%	Yageo	RC0805FR-0747K5L	<a href="#">603-RC0805FR-0747K5L</a>
11	SW1	Tactile	50 mA, 12 VDC, 6.0x3.5, H2.5 mm	C&K	<a href="#">PTS636 SK25 SMTR LFS</a>	<a href="#">611-PTS636SK25SMTRLF</a>
12	U1	ESP32-WROOM-32E	16 MB QIO flash	Espressif	<a href="#">ESP32-WROOM-32E-N16</a>	<a href="#">356-ESP32WRM32E128PH</a>
13	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>
14	U3	AP2115M-3.3	3.3 VOUT, 1 AOUT, 2.5-6 VIN	Diodes Inc.	<a href="#">AP2115M-3.3TRG1</a>	<a href="#">621-AP2115M-3.3TRG1</a>