

Compiled LZX Castle MOUSER BOM

Line Item	Quantity	Manufacturer	Manufacturer P/N	Vendor	Vendor P/N	Description	Value	Package	Part Type	Assembly Location	Substitute Part	Links
1	47	KOA Speer	MF1/4DCT52R4990F	Mouser	660-MF1/4DCT52R4990F	Metal Film Resistors - Through Hole 1/4W 499 ohm 1% 500 OHM 1%	499	0	Through Hole	PCB Top		https://eu.mouser.com
2	116	KOA Speer	MF1/4DCT52R1001F	Mouser	660-MF1/4DCT52R1001F	Metal Film Resistors - Through Hole 1Kohms 1% 100PPM	1K	0	Through Hole	PCB Top		https://eu.mouser.com
3	27	KOA Speer	MF1/4DCT52R3901F	Mouser	660-MF1/4DCT52R3901F	Metal Film Resistors - Through Hole 3.9Kohms 1% 100PPM	3.9K	0	Through Hole	PCB Top		https://eu.mouser.com
4	8	KOA Speer	MF1/4DCT52R4991F	Mouser	660-MF1/4DCT52R4991F	Metal Film Resistors - Through Hole 4.99Kohms 1% 100PPM	4.99K	0	Through Hole	PCB Top		https://eu.mouser.com
5	21	KOA Speer	MF1/4DCT52R1002F	Mouser	660-MF1/4DCT52R1002F	Metal Film Resistors - Through Hole 10Kohms 1% 100PPM	10K	0	Through Hole	PCB Top		https://eu.mouser.com
6	1	KOA Speer	MF1/4DCT52R4702F	Mouser	660-MF1/4DCT52R4702F	Metal Film Resistors - Through Hole 47Kohms 1% 100PPM	47K	0	Through Hole	PCB Top		https://eu.mouser.com
7	2	KOA Speer	MF1/4DCT52R4992F	Mouser	660-MF1/4DCT52R4992F	Metal Film Resistors - Through Hole 49.9Kohms 1% 100PPM	49.9K	0	Through Hole	PCB Top		https://eu.mouser.com
8	27	KOA Speer	MF1/4DCT52R1003F	Mouser	660-MF1/4DCT52R1003F	Metal Film Resistors - Through Hole 100Kohms 1% 100PPM	100K	0	Through Hole	PCB Top	660-MF1/4D52R1003F	https://eu.mouser.com
9	1	Yageo	MFR-25FRF52-4M7	Mouser	603-MFR-25FRF52-4M7	Metal Film Resistors - Through Hole 4.7M OHM 1/4W 1%	4.7M	0	Through Hole	PCB Top		https://eu.mouser.com
10	1	Vishay / Sprague	1C10C0G470J050B	Mouser	75-1C10C0G470J050B	Multilayer Ceramic Capacitors MLCC - Leaded 47pF 50volts C0G 5% 5.0mm L/S	47p	0	Through Hole	PCB Top		https://eu.mouser.com
11	1	Vishay / BC Components	K102J15C0GF53L2	Mouser	594-K102J15C0GF53L2	Multilayer Ceramic Capacitors MLCC - Leaded 1000pF 50volts 5% C0G 2.5mm LS	1n	0	Through Hole	PCB Top		https://eu.mouser.com
12	76	Vishay / Sprague	1C10Z5U104M050B	Mouser	75-1C10Z5U104M050B	Multilayer Ceramic Capacitors MLCC - Leaded 0.1uF 50volts Z5U 20% 2.5mm L/S	0.1 u	0	Through Hole	PCB Top		https://eu.mouser.com
13	1	TDK	FK16C0G1H104J	Mouser	810-FK16C0G1H104J	Multilayer Ceramic Capacitors MLCC - Leaded 0.1uF 50volts C0G +/-5%		0	Through Hole	PCB Top	810-FG16C0G1H104JNT	https://eu.mouser.com
14	29	Panasonic	ECE-A1VKS100	Mouser	667-ECE-A1VKS100	Aluminum Electrolytic Capacitors - Leaded 10UF 35V KS RADIAL	10 u	0	Through Hole	PCB Top		https://eu.mouser.com
15	16	Fair-Rite	2743001111	Mouser	623-2743001111	EMI Filter Beads, Chips & Arrays 43 BEAD ON LEAD Z=68 OHM @ 100MHz	0	0	Through Hole	PCB Top		https://eu.mouser.com
16	44	STMicroelectronics	1N5711	Mouser	511-1N5711	Schottky Diodes & Rectifiers 15mA 70 Volt	0	DO-35	Through Hole	PCB Top		https://eu.mouser.com
17	16	Fairchild Semiconductor	1N4001	Mouser	512-1N4001	Rectifiers Vr/50V Io/1A T/R	0	DO-41	Through Hole	PCB Top	750-1N4001-G	https://eu.mouser.com
18	3	ON Semiconductor / Fairchild	1N4148	Mouser	512-1N4148	Diodes - General Purpose, Power, Switching 100V Io/200mA	0	DO-35	Through Hole	PCB Top		https://eu.mouser.com
19	2	ON Semiconductor / Fairchild	2N3904BU	Mouser	512-2N3904BU	Bipolar Transistors - BJT NPN Transistor General Purpose	0	TO-92	Through Hole	PCB Top		https://eu.mouser.com
20	7	ON Semiconductor / Fairchild	MC78L05ABPX	Mouser	512-MC78L05ABPX	Linear Voltage Regulators Pos Voltage Reg 3Term 0.1a	0	TO-92	Through Hole	PCB Top		https://eu.mouser.com
21	1	ON Semiconductor / Fairchild	MC79L05ACP	Mouser	512-MC79L05ACP	Linear Voltage Regulators 5V 100mA Negative		TO-92	Through Hole	PCB Top		https://eu.mouser.com
22	1	E-Switch	100SP1T1B1M2QEHE	Mouser	612-100-A1121	Toggle Switches SPDT ON-ON PC MNT	0	0	Through Hole	PCB Top / Frontpanel		https://eu.mouser.com
23	1	E-Switch	100SP3T1B1M1QEHE	Mouser	612-100-C1111	Toggle Switches SPDT ON-OFF-ON SLDR	0	0	Through Hole	PCB Top / Frontpanel		https://eu.mouser.com
24	29	Texas Instruments	LM6172IN/NOPB	Mouser	926-LM6172IN/NOPB	Operational Amplifiers - Op Amps Dual High Speed,Low Pwr Amp	0	DIP-8	Through Hole	PCB Top		https://eu.mouser.com
25	1	Texas Instruments	SN74HC148N	Mouser	595-SN74HC148N	Encoders, Decoders, Multiplexers & Demultiplexers 8-to-3 Line Priority		DIP-16	Through Hole	PCB Top		https://eu.mouser.com
26	1	Texas Instruments	CD4046BE	Mouser	595-CD4046BE	Phase Locked Loops - PLL PLL w/ VCO	0	DIP-16	Through Hole	PCB Top		https://eu.mouser.com
27	1	Texas Instruments	CD4015BE	Mouser	595-CD4015BE	Counter Shift Registers Dual 4-Stage Static	0	DIP-16	Through Hole	PCB Top		https://eu.mouser.com
28	3	Texas Instruments	SN74HC00N	Mouser	595-SN74HC00N	Logic Gates Quad 2-Input NAND	0	DIP-14	Through Hole	PCB Top		https://eu.mouser.com
29	4	Texas Instruments	TL072IP	Mouser	595-TL072IP	Operational Amplifiers - Op Amps Dual JFET In Low N	0	DIP8	Through Hole	PCB Top		https://eu.mouser.com
30	1	Texas Instruments	CD4070BE	Mouser	595-CD4070BE	Logic Gates Quad Exclusive	0	DIP-14	Through Hole	PCB Top		https://eu.mouser.com
31	1	Texas Instruments	CD4011BE	Mouser	595-CD4011BE	Logic Gates Quad 2-Input NAND	0	DIP-14	Through Hole	PCB Top		https://eu.mouser.com
32	1	Texas Instruments	CD4001BE	Mouser	595-CD4001BE	Logic Gates Quad 2-Input NOR	0	DIP-13	Through Hole	PCB Top		https://eu.mouser.com
33	1	Texas Instruments	SN74HC191N	Mouser	595-SN74HC191N	Counter ICs 4-Bit Sync UpDn Bnry	0	DIP-16	Through Hole	PCB Top		https://eu.mouser.com
34	1	Texas Instruments	SN74HC174N	Mouser	595-SN74HC174N	Flip Flops Hex w/ Clear	1	DIP-16	Through Hole	PCB Top		https://eu.mouser.com