

Comment	Designator	Footprint	LCSC Part No	Manuf. Part No	Comment
USB micro connector	CON1, CON2		<a href="#">C719023</a>	ZX62D-B-5P8(30)	
tactile switch	SW1,SW2		<a href="#">C445493</a>	K2-1102DP-L3SW-04	
on/off switch	SW3		<a href="#">C2887259</a>	<a href="#">SS12D10G4 071</a>	
100nF	C9,C12,C13,C15,C16,C17,C19,C20	0603	<a href="#">C66501</a>	CC0603KRX7R9BB104	
22uF	C1,C2,C3,C4,C5,C6,C7,C8,C10,C11,C18	1206	<a href="#">C5672</a>	CL31A226KPHNNNE	
10uF	C14	0603	<a href="#">C19702</a>	CL10A106K8NNNC	
DC-DC 3.3V 1.2A	REG1	DFN-8-EP(2x2)	<a href="#">C485809</a>	<a href="#">TPS62082DSGR</a>	
2.6A 1uH ±20% 4.2A	L1	0806	<a href="#">C2913752</a>	BDHH002016101R0MDB	datasheet of REG1 recommends XFL3012-102MEB, but that is not available in JLCPCB library
MOSFET	Q2,Q3,Q4	SOT-23	<a href="#">C400505</a>	BSS138	
3K92 1%	R8	0603	<a href="#">C170585</a>	WR06X3921FTL	
680R 1%	R11, R16	0603	<a href="#">C23228</a>	0603WAF6800T5E	
430R 1%	R14	0603	<a href="#">C23170</a>	0603WAF4300T5E	
1K 1%	R1,R5,R6,R9	0603	<a href="#">C21190</a>	0603WAF1001T5E	
220R 1%	R3	0603	<a href="#">C22962</a>	0603WAF2200T5E	
1.5K 1%	R10	0603	<a href="#">C22843</a>	0603WAF1501T5E	
3K 1%	R12	0603	<a href="#">C4211</a>	0603WAF3001T5E	
100K 1%	R23	0603	<a href="#">C25803</a>	0603WAF1003T5E	
100R	R2,R19,R22	0603	<a href="#">C22775</a>	0603WAF1000T5E	
300R	R4	0603	<a href="#">C23025</a>	0603WAF3000T5E	
3.3K 1%	R20,R27	0603	<a href="#">C22978</a>	0603WAF3301T5E	
180k	R13	0603	<a href="#">C22827</a>	0603WAF1803T5E	
1K54	R26	0603	<a href="#">C100784</a>	CR0603FA1541G	
10K	R7	0603	<a href="#">C25804</a>	0603WAF1002T5E	
Shotky diode	D5, D8	SOT-23	<a href="#">C37704</a>	BAT54C,215	
2.5V Ref	U2	SOT-23-3	<a href="#">C411753</a>	TL431A PJSEMI	warning: original TI part has diferent pinout!
comparator	U1	SOT-25-5	<a href="#">C151034</a>	AP331AWG-7	
BergStak 100pos Plug height 4.7 mm	JX1,JX2		<a href="#">C2764776</a>	61083-101400LF	
level shifter	U3,U4	TSSOP-20	<a href="#">C53406</a>	TXB0108PWR	
4K87	R25	0603	<a href="#">C2097544</a>	MCT06030C4871FP500	for green 5V indicator LED
PL LED yellow	D1,D2	0805	<a href="#">C2296</a>	17-21SUYC/TR8	
150R 1%	R17,R18	0603	<a href="#">C22808</a>	0603WAF1500T5E	for yellow 3.3V indicator LED
±0.5ppm 50MHz oscillator	X1		<a href="#">C2920832</a>	NT0503DH3I507BN50	
Interface Chip USB/UART	U5	SOP-16	<a href="#">C14267</a>	CH340G	the same as used in <a href="https://www.sparkfun.com/products/14050">https://www.sparkfun.com/products/14050</a>
AND gate	U6	X1-DFN1010-6	<a href="#">C150443</a>	74LVC1G08FW5-7	
12MHz 15pF crystal	Y1	SMD2520-4P	<a href="#">C2149206</a>	2TJ412000UYGBC	
22pF for crystal	C21,C22	0402	<a href="#">C881987</a>	C0402C0G220J250NTB	
LED green	D3,D4,D6	0603	<a href="#">C2833058</a>	BZ-C0603-G3-F1	power indicators, RX_to_FPGA
133R for green LED RX	R15	0402	<a href="#">C4326496</a>	CRCW0402133RFKED	
LED yellow for TX_from_FPGA	D7	0603	<a href="#">C5151485</a>	A-SP192Y3C-A01-4T	
154R for yellow LED	R24	0603	<a href="#">C365385</a>	ETCR0603F154RK9	

Following connectors are not part of BOM, i.e. not part of JLCPCB Assembly (they are intended for DIY hand soldering):

Comment	Designator		Manuf. Part No
38 pin header	J4		<a href="#">SSW-119-01-F-D</a>
52 pin header	J3		<a href="#">SSQ-126-03-G-D</a>
2 pin header, 6 mm	JP1		<a href="#">61300211121</a>
PMOD receptacle right angle	PMODH1,PMODH2,PMODH3		<a href="#">SSQ-106-03-T-D-RA</a>
PMOD receptacle straight	PMODV1,PMODV2,PMODV3		<a href="#">Farnell SSQ-106-01-G-D</a>
Power connector 8 pin, 2 rows	J5,J6		<a href="#">Farnell SSQ-104-02-G-D</a>
GND header for probes, 4 pin, 1 row	J2, J7		<a href="#">Farnell TSW-104-14-L-S</a>