

AVR Prototype BOM

Component	Description	References	Value	Quantity	Mouser Part Number	Manufacturer_Part_Number
1	Unpolarized capacitor	C5 C6	0.1 uF	2	80-C0805C104J5RAUTO	C0805C104J5RAUTO
2	Unpolarized capacitor, small symbol	C9 C10 C11 C12 C13 C14	0.1uF	6	80-C0805C104J5RAUTO	C0805C104J5RAUTO
3	Unpolarized capacitor	C1 C2	10 uF	2	661-KTD101B106M80A0B	KTD101B106M80A0B
4	Unpolarized capacitor	C3 C4	2.2 uF	2	810-CGA4J1X8L225125C	CGA4J1X8L1V225K125AC
5	Unpolarized capacitor, small symbol	C7 C8	22 pF	2	80-C0805X220K3GAUTO	C0805X220K3GACAUTO
6	Light emitting diode	D1	Red LED	1	78-TLHK46Q1R2	TLHK46Q1R2
7	Ferrite bead, small symbol	FB1 FB2 FB3 FB4 FB5 FB6	Fe	6	963-BK2125HS101-T	BK2125HS101-T
8	Atmel 6-pin ISP connector	J2	AVR-ISP	1	485-1465	1465
9	Generic connector, single row, 01x02, script generated (kicad-library-utils/schlib/autogen/connector/)	J3	Aux	1		
10	DC Barrel Jack with an internal switch	J1	Barrel_Jack_Switch	1	490-PJ-102AH	PJ-102AH
11	Generic connector, single row, 01x24, script generated (kicad-library-utils/schlib/autogen/connector/)	J5 J6	ConnA	2		
12	Generic connector, single row, 01x03, script generated (kicad-library-utils/schlib/autogen/connector/)	J7	Conn_01x03	1		
13	Generic connector, single row, 01x06, script generated (kicad-library-utils/schlib/autogen/connector/)	J4	Conn_01x06	1		
14	Inductor	L1 L2	68 uH	2	963-NRS6012T680MMGJ	NRS6012T680MMGJ
15	Resistor	R2	10k	1	660-RK73H2ATTD1002F	RK73H2ATTD1002F
16	Resistor, US symbol	R1	680	1	603-RC0805FR-13680RL	RC0805FR-13680RL
17	Switch	S1	On/Off Switch	1	611-1101M2S3CQE2	1101M2S3CQE2
18	Non-Isolated DC/DC Converters 8-28Vin 3.3V 1.0A THRU	T2	R-78E3.3-1.0	1	919-R-78E3.3-1.0	R-78E3.3-1.0
19	Non-Isolated DC/DC Converters 8-28Vin 5V 1.0A THRU	T1	R-78E5.0-1.0	1	919-R-78E5.0-1.0	R-78E5.0-1.0
20	32MHz, 256kB Flash, 8kB Boot, 16kB SRAM, 4kB EEPROM, JTAG, USB, TQFP-64	U1	ATxmega256A3U-AU	1	556-ATXMEGA256A3U-AU	ATXMEGA256A3U-AU
21	Two pin crystal	Y1	16 MHz	1	815-ABL-16-B1U	ABL-16.000MHZB1U