

Qty	Value	Device	Package	Parts	Description
5	1.0uF	1.0UF-16V-10%(0603)	0603-CAP	C3, C5, C6, C9, C10	CAP 0603 1.0 uF 16V
2	10nF	10NF/10000PF-50V-10%(0603)	0603-CAP	C7, C8*	CAP 0603 10nF (16V) C8 is loaded if IC1 is loaded.
4	15pF	15PF-50V-5%(0603)	0603-CAP	C2, C4, C11, C12	CAP-07881
2	15nH	INDUCTOR0603	0603-IND	L2, L3	Inductors
1	0	0-OHM	0603-RES	R6	0-Ohm resistor (jumper) R6 is loaded if IC1 is not loaded.
4	1K	RESISTOR0603-RES	0603-RES	R1, R2, R3, R4	RESISTOR 1K 0603
1	2.2K	RESISTOR0603	0603-RES	R13	RESISTOR 2.2K 0603
8	10K	10KOHM-1/10W-1%(0603)0603	0603-RES	R5, R8*, R11, R12, R14-R17	RESISTOR 10K 0603. R8 loaded if IC1 is loaded.
1	RK7002	MOSFET-NCHANNELBSS138	SOT23-3	Q1	Common NMOSFET Parts (RK7002 works well. Generic 2N7002 should work.
1	Bead	INDUCTOR300HM,1.8A	0603-IND	L1	Inductor bead (A zero ohm resistor can be used)
1	RED LED	LED-3MM-NO_SILK	LED3MM-NS	D1	3mm Red LED
1	ORG LED	LED-3MM-NO_SILK	LED3MM-NS	D4	3mm Orange LED
1	BLU LED	LED-3MM-NO_SILK	LED3MM-NS	D2	3mm Blue LED
1	GRN LED	LED-3MM-NO_SILK	LED3MM-NS	D3	3mm Green LED
2	AUD IN/OUT JACK	AUDIO-JACKSMD2	AUDIO-JACK-3.5MM-SMD	J2	3.5mm Audio Jack (Stereo Headphone Jack PJ328)
1	KC-6112_V4	KC-6112_V4	KC-6112_V4	U1	KC Wirefree KC6112 Class 2 Bluetooth Audio Module w/ Ant
0	LM321MF	LM321MF	SOT23-5	IC1*	Low Power Single Op Amp (Populate if desired..C8 and R8 too)
1	Power Sw	SWITCH-SPDTSMD2	SWITCH-SPDT-SMD	S5	SPDT Switch (used a #DSC0011 from Aliexpress)
1	DFU ENB	M02PTH	1X02	J6	Standard 2-pin 0.1 header. This is used for DFU update if needed.
1	Serial Port	M03PTH	1X03	J3	Header 3 (Used for serial port if desired)
3	TS-1109	DIP-BUTTON-4P	SW4-6.0X6.0X11.0MM	BTB, VOL_DN, VOL_UP	6mmx6mmx11mm push-button switch
1	USB-MB-H	USB-MB-H	USB-MB-H	J4	USB Connectors (EBay Mini USB Female 5 Pin Type B Right Angle PCB Socket Connector 2 Legs)