

## BM-USBD4 915MHZ V1.1d BOM

<u>Designator</u>	<u>Value</u>	<u>Tolerance</u>	<u>Footprint</u>	<u>Description</u>	<u>Manufacturer</u>
C1	2.2nF	+ -10%, X7R	402	Capacitor SMD	
C2	100nF	+ -10%, X5R or X7R	402	Capacitor SMD	
C3	100nF	+ -10%, X5R or X7R	402	Capacitor SMD	
C4	100nF	+ -10%, X5R or X7R	402	Capacitor SMD	
C5	470nF	+ -10%, X5R	402	Capacitor SMD	
C6	220nF	+ -10%, X5R	402	Capacitor SMD	
C7	220nF	+ -10%, X5R	402	Capacitor SMD	
C8	100nF	+ -10%, X5R or X7R	402	Capacitor SMD	
C9	100nF	+ -10%, X5R or X7R	402	Capacitor SMD	
C10	100nF	+ -10%, X5R or X7R	402	Capacitor SMD	
C11	100nF	+ -10%, X5R or X7R	402	Capacitor SMD	
C12	100nF	+ -10%, X5R or X7R	402	Capacitor SMD	
C13	100nF	+ -10%, X5R or X7R	402	Capacitor SMD	
C14	100nF	+ -10%, X5R or X7R	402	Capacitor SMD	
C15	15pF	+ -5%, COG/NP0	402	Capacitor SMD	
C16	15pF	+ -5%, COG/NP0	402	Capacitor SMD	
C17	na				
C18	na				
C20	10pF	+ -5%, COG/NP0	402	Capacitor SMD	
C21	10pF	+ -5%, COG/NP0	402	Capacitor SMD	
C22	100nF	+ -10%, X5R or X7R	402	Capacitor SMD	
C23	1.0uF	+ -10%, X5R	402	Capacitor SMD	
C24	100nF	+ -10%, X5R or X7R	402	Capacitor SMD	
C25	1.0uF	+ -10%, X5R	402	Capacitor SMD	
D1	green		603	LED SMD	
E1	0915AT43A0026			Chip Antenna 915MHz	Johanson
L1	12nH	+ -5%	402	Inductor Monolithic SMD	Johanson L-07C12NJV6
P1	USB Type A			USB Plug	e.g. Lumberg 241007
PCB1	CUSTOM, solder stop white			PCB, 4 layers, 0.8 mm thick	
R1	47k	+ -5%	402	Resistor SMD	
R2	270R	+ -5%	402	Resistor SMD	
R3	na				
R4	1M	+ -5%	402	Resistor SMD	
R5	1.4k	+ -5%	402	Resistor SMD	
R6	27R	+ -5%	402	Resistor SMD	
R7	27R	+ -5%	402	Resistor SMD	
R8	100R	+ -5%	402	Resistor SMD	
R9	56k	+ -1%	402	Resistor SMD	
R10	0R	+ -5%	402	Resistor SMD	
R11	0R	+ -5%	402	Resistor SMD	
R12	0R	+ -5%	402	Resistor SMD	
U1	MSP430F5509IRGZR		QFN48	MCU	TI

U2	CC1101RTKR		QLP20	ISM Transceiver	TI
U3	0915BM15A0001			Balun 915MHz	Johanson
U4	TPD2E001DRLR		DRL5	ESD Protection	TI
U5	TPS78225DDDCR		TSOT23-5	Linear Regulator	TI
Y1	26MHz, CL=10pF, ESR<=40Ohm	+/-10ppm	3.2 x 2.5 mm2	Crystal SMD	Epson TSX3225-X1E000021014300
Y2	32.768kHz, CL=12.5pF, ESR<=80kOhm	+/-20ppm	1.5x1.5x6.7mm	Crystal SMD	MicroCrystal MS3V-T1R