

Bom CHISEL B3.xlsx

Quantity	Designator	Description	Value	Footprint	Manufacture	Part #	Distributor	Temperature	Tolerance	Voltage	Notes
1	AX100	RF Printed Antena	2.45GHz	ANT-BLE	Abracon	AMCA31-2R450G-S1F-T	Digi Key 535-12386-1-ND	-40°C ~ 85°C	±4%	NA	2.45GHz / -1dBi / 500mW
2	BATT100, BATT101	Battery AAA		BAT AAA S							
2	C100, C101	Capacitor	12pF	0402NT	Samsung Elec	CL05C120JB5NNNC	Digi Key 1276-1178-1-ND	-55°C ~ 125°C	±5%	50v	NP0
2	C102, C103	Capacitor	18pF	0402NT	Samsung Elec	CL05C180JB5NNNC	Digi Key 1276-1140-1-ND	-55°C ~ 125°C	±5%	50v	NP0
24	C104, C105, C106, C108, C112, C114, C117, C120, C125, C126, C127, C128, C129, C133, C134, C137, C140, C141, C144, C145, C146, C147, C148, C149	Capacitor	0.1uF	0402NT	Samsung Elec	CL05B104KO5NNNC	Digi Key 1276-1001-1-ND	-55°C ~ 125°C	±10%	16v	X7R
2	C107, C151	Capacitor	1nF	0402NT	Samsung Elec	CL05B102KB5NCNC	Digi Key 1276-1492-1-ND	-55°C ~ 125°C	±10%	50V	X7R
1	C109	Capacitor	2.2pF	0402NT	Samsung Elec	CL05C2R2BB5NNNC	Digi Key 1276-1674-1-ND	-55°C ~ 125°C	±0.1pF	50v	NP0
1	C110	Capacitor	1pF	0402NT	Samsung Elec	CL05C010BB5NNNC	Digi Key 1276-1237-1-ND	-55°C ~ 125°C	±0.1pF	50v	NP0
1	C111	Capacitor	1.5pF	0402NT	Samsung Elec	CL05C1R5BB5NNNC	Digi Key 1276-1656-1-ND	-55°C ~ 125°C	±0.1pF	50v	NP0
2	C113, C115	Capacitor	2.2nF	0402NT	Samsung Elec	CL05B222KB5NNNC	Digi Key 1276-1054-1-ND	-55°C ~ 125°C	±10%	50v	X7R
2	C116, C122	Capacitor	2.2uF	0402NT	Samsung Elec	CL05A225MQ5NNNC	Digi Key 1276-1469-1-ND	-55°C ~ 85°C	±20%	6.3v	X5R
2	C118, C132	Capacitor	10uF	0805NT	Samsung Elec	CL21A106KPFNNNE	Digi Key 1276-1052-1-ND	-55°C ~ 85°C	±10%	10v	X5R
2	C119, C121	Capacitor	39nF	0402NT	Samsung Elec	CL05B393KO5NNNC	Digi Key 1276-1563-1-ND	-55°C ~ 125°C	±10%	16v	X7R
7	C123, C135, C136, C138, C139, C142, C143	Capacitor	1uF	0402NT	Samsung Elec	CL05A105JQ5NNNC	Digi Key 1276-1444-1-ND	-55°C ~ 85°C	±5%	6.3v	X5R
1	C124	Capacitor	0.22uF	0402NT	Samsung Elec	CL05A224KP5NNNC	Digi Key 1276-1049-1-ND	-55°C ~ 85°C	±10%	10v	X5R
2	C130, C131	Capacitor	10uF	0603NT	Samsung Elec	CL10A106MQ8NNNC	Digi Key 1276-1119-1-ND	-55°C ~ 85°C	±20%	6.3v	X5R
6	D1, D2, D3, D4, D5, D6	Diode LED RGB	LED RGB	PLCC-4C	Avago Tech	ASMB-MTB1-0A3A2	Digi Key ASMB-MTB1-0A3A2-ND	-20°C ~ 85°C	N/A	G 3.1v / R 2.1v / B 3.1v	115°° / G 1600mcd, / R 540mcd / B 350
1	D100	Diode LED Yellow	Amber	0402LD	Panasonic	LNJ447W84RA1	Digi Key LNJ447W84RA1CT-ND	-25°C ~ 85°C	NA	1.95 V	5mA / 30mcd / Amber
1	IC100	Bluetooth v4.0, Low Energy	NRF51822	QFN48	Nordic Semi	NRF51822-QFAA-T	Digi Key 1490-1024-ND	-25°C ~ 75°C		1.8 V ~ 3.6 V	256K Flash / 16K RAM / 16mA
1	IC101	IC Memory Flash	W25X20CL	SOIC-8	Winbond	W25X20CLSNIG	Digi Key W25X20CLSNIG-ND	-40°C ~ 85°C	NA	2.3 V ~ 3.6 V	2M (256K x 8) / SPI Serial
1	IC102	IC Analog Front End / IQ&Fat / 16 bits	AFE4300	PQFP-G80	Texas Instruments	AFE4300PNR	Digi Key 296-30554-1-ND	-40°C ~ 85°C	N/A	2V ~ 3.6 V	16 bits / 860 sps
1	IC103	IC Battery Charger	AAT3693	TDFN-10	Skyworks	AAT3693IDH-AA-T1	Digi Key 863-1512-1-ND	-40°C ~ 85°C	NA	4 V ~ 7.5 V	Li-Ion, Li-Pol
1	IC104	IC Linear Regulator	XC6504A	SOT-23-5	Torex Semi	XC6504A301MR-G	Digi Key 893-1199-1-ND	-40°C ~ 85°C	±1%	1v~6v	3.0v Out / 150mA / QI=1uA
1	IC105	IC Voltage Detector	BU4930	SSOP5	Rohm Semi	BU4930G-TR	Digi Key BU4930GCT-ND	-40°C ~ 125°C	±1%	6v	3.0v Det / 70mA / 1uA
16	JC1, JC2, JC3, JC4, JC5, JC6, JC7, JC8, JC9, JC10, JC11, JC12, JC13, JC14, JC15, JC16	Conn Spring	1 Pin	CONN SPRG-B	TE Connectivity	2199248-5	Digi Key A120584CT-ND	-25°C ~ 85°C	NA	100v	Sprig Finger
1	L100	Inductance Bead	Z=430ohm	0402NT	Taiyo Yuden	BK1005HS431-T	Digi Key 587-1845-1-ND	-40°C ~ 85°C	N/A	N/A	350mA / 0.45ohm / 430 Ohm @ 100MHz
1	L101	Inductance	3.3nH	0402NT	Murata	LQW15AN3N3C80D	Digi Key 490-7642-1-ND	-55°C ~ 125°C	±0.2nH	NA	Q=30 @ 250MHz
1	L102	Inductance	4.7nH	0402NT	Murata	LQW15AN4N7C00D	Digi Key 490-1139-1-ND	-40°C ~ 125°C	±0.2nH	NA	Q=25 @ 250MHz
1	L103	Inductance	10nH	0402NT	Murata	LQW15AN10NJ00D	Digi Key 490-1146-1-ND	-55°C ~ 125°C	±5%	NA	Q=25 @ 250MHz
1	L104	Inductance Bead	Z=1500ohm	0603NT	TDK	MMZ1608Y152BTA00	Digi Key 445-1553-1-ND	-40°C ~ 85°C	N/A	N/A	300mA / 0.6ohm / 1500 Ohm @ 100MHz
1	PAD102	Port I/O Top Layer		PAD-30							
1	Q100	Transistor Mosfet N/P	DMC2038	TSOT-6	Diodes Inc	DMC2038LVT-7	Digi Key DMC2038LVT-7DICT-ND	-55°C ~ 150°C	N/A	20V	-2.6A / 3.6A / 35mOhm / 800mW
3	Q101, Q102, Q103	Transistor Mosfet N	DMG1012	SOT-523	Diodes Inc	DMG1012T-7	Digi Key DMG1012T-7DICT-ND	-40°C ~ 125°C	N/A	20v	630mA / 400 mOhm / 280mW
1	Q104	Transistor Mosfet N/P	DMC2400	SOT-563	Diodes Inc	DMC2400UV-7	Digi Key DMC2400UV-7DICT-ND	-40°C ~ 85°C	N/A	20v	450mW / 0.5 ~ 2ohm / 900mV
2	R100, R101	Resistance	1k	0402NT	Panasonic	ERJ-2GEJ102X	Digi Key P1.0KJCT-ND	-40°C~+85°C	±5%	30v	0.1W / ±200ppm/°C
13	R102, R124, R126, R128, R129, R130, R131, R132, R133, R134, R135, R139, R156	Resistance	10K	0402NT	Panasonic	ERJ-2GEJ103X	Digi Key P10KJCT-ND	-40°C~+85°C	±5%	30v	0.1W / ±200ppm/°C
5	R103, R116, R136, R138, R158	Resistance	100k	0402NT	Panasonic	ERJ-2GEJ104X	Digi Key P100KJCT-ND	-40°C~+85°C	±5%	30v	0.1W / ±200ppm/°C
9	R104, R105, R106, R107, R108, R109, R123, R125, R127	Resistance	100ohm	0402NT	Panasonic	ERJ-2GEJ101X	Digi Key P100JCT-ND	-40°C~+85°C	±5%	30v	0.1W / ±200ppm/°C
12	R110, R111, R112, R113, R114, R115, R117, R118, R119, R120, R121, R122	Resistance	47ohm	0402NT	Panasonic	ERJ-2GEJ470X	Digi Key P47JCT-ND	-40°C~+85°C	±5%	30v	0.1W / ±200ppm/°C
2	R137, R146	Resistance	10k	0402NT	Panasonic	ERJ-2RKF1002X	Digi Key P10.0KLCT-ND	-40°C~+85°C	±1%	30v	0.1W / ±100ppm/°C
1	R140	Resistance	3.16k	0402NT	Panasonic	ERJ-2RKF3161X	Digi Key P3.16KLCT-ND	-40°C~+85°C	±1%	30v	0.1W / ±100ppm/°C
1	R141	Resistance	0hom	0402NT	Samsung	RC1005J000CS	Digi Key 1276-3480-1-ND	-55°C ~ 155°C	NA	30v	0.63W / ±200ppm/°C
3	R142, R143, R144	Resistance	100ohm	0402NT	Panasonic	ERJ-2RKF1000X	Digi Key P100LCT-ND	-40°C~+85°C	±1%	30v	0.1W / ±100ppm/°C
3	R145, R147, R150	Resistance	10M	0402NT	Vishay Dale	CRCW040210M0JNED	Digi Key 541-10MJCT-ND	-40°C~+85°C	±5%	30v	0.063W / ±100ppm/°C
1	R153	Resistance	750ohm	0402NT	Panasonic	ERJ-2RKF7500X	Digi Key P750LCT-ND	-40°C~+85°C	±1%	30v	0.1W / ±100ppm/°C
1	R154	Resistance	10ohm	0402NT	Panasonic	ERJ-2RKF10R0X	Digi Key P10.0LCT-ND	-55°C ~ 155°C	±1%	30v	0.1W / ±100ppm/°C
1	R155	Resistance	49.9ohm	0402NT	Panasonic	ERJ-2RKF49R9X	Digi Key P49.9LCT-ND	-55°C ~ 155°C	±1%	30v	0.1W / ±100ppm/°C
1	R157	Resistance	330ohm	0402NT	Panasonic	ERJ-2GEJ331X	Digi Key P330JCT-ND	-40°C~+85°C	±5%	30v	0.1W / ±200ppm/°C
3	SW100, SW101, SW102	Switch SMT 2 pole	Switch	SW TACT-S3A	E Switch	TL3340AF160QG	Digi Key EG4627DKR-ND	-35°C ~ 85°C	N/A	12v	160gf / Side Act / Gull Wing
1	X100	Xtal	32.768KHz	XTAL-S2.X1	Seiko	SC20S-12.5PF20PPM	Digi Key 728-1075-1-ND	-40°C ~ 85°C	±20ppm	NA	12.5pF / 90k

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1	XT100	Xtal Epson 16MHz	16MHz	XTAL-A2X3	Epson	TSX-3225 16.0000MF09Z-AC3	Digi Key SER3628CT-ND	-20°C ~ 75°C	±10ppm	N/A	60ohm / 9pF / ±9ppm