

Part Reference	Quantity	Value	PCB Package	Description	MPN	Manufacturer
BAT+	1	BAT+		NON COMPONENT, BATTERY + PAD, SMD		
BAT-	1	BAT-		NON COMPONENT, BATTERY - PAD, SMD		
BZR1	1	PS1240P02BT		ACOUSTIC, BUZZER, UP TO 30V, PTH	PS1240P02BT	TDK
C1,C9	2	1uF	0402	CAPACITOR, CERAMIC X5R, 1uF, 10V, -10%/+10%, -55DEGC/+85DEGC, 0402, SMD	GRM155R61A105KE15D	MURATA
C2-C6,C23,C24,C31-C33,C35	11	100nF	0402	CAPACITOR, CERAMIC X7R, 100nF, 10V, -10%/+10%, -55DEGC/+125DEGC, 0402, SMD	GRM155R71A104KA01D	MURATA
C7	1	220pF	0402	CAPACITOR, CERAMIC COG/NPO, 220pF, 50V, -5%/+5%, -55DEGC/+125DEGC, 0402, SMD	GRM1555C1H221JA01D	MURATA
C10,C30,C34	3	2.2uF	0402	CAPACITOR, CERAMIC X5R, 2.2uF, 6.3V, -20%/+20%, -55DEGC/+85DEGC, 0402, SMD	GRM155R60J225ME95D	MURATA
C11,C12	2	15pF	0402	CAPACITOR, CERAMIC COG/NPO, 15pF, 50V, -5%/+5%, -55DEGC/+125DEGC, 0402, SMD	GRM1555C1H150JA01D	MURATA
C15,C18,C38,C39	4	18pF	0402	CAPACITOR, CERAMIC COG/NPO, 18pF, 50V, -55DEGC/+125DEGC, 0402, SMD	GRM1555C1H180JA01D	MURATA
C19-C21	3	1pF	0402	CAPACITOR, CERAMIC COG/NPO, 1pF, 50V, -0.1pF/+0.1pF, -55DEGC/+125DEGC, 0402, SMD	GRM1555C1H1R0BA01D	MURATA
C22	1	100uF	RADIAL	CAPACITOR, ALUMINUM, 100uF, 10V, -20%/+20%, -40DEGC/+85DEGC, RADIAL, SMD	EEE1AA101WR	PANASONIC INDUSTRIAL
C29,C41	2	15nF	0402	CAPACITOR, CERAMIC X7R, 15nF, 16V, -5%/+5%, -55DEGC/+125DEGC, 0402, SMD	CAPACITOR_0402_15nF_X7R_M_+/-5%_16V	Manufacturer selection
C36	1	10nF	0402	CAPACITOR, CERAMIC X7R, 10nF, 25V, -10%/+10%, -55DEGC/+125DEGC, 0402, SMD	GRM155R71E103KA01D	MURATA
C37	1	2.2nF	0402	CAPACITOR, CERAMIC X7R, 2.2nF, 50V, -10%/+10%, -55DEGC/+125DEGC, 0402, SMD	GRM155R71H222KA01D	MURATA
C40	1	1nF	0402	CAPACITOR, CERAMIC X7R, 1nF, 50V, -10%/+10%, -55DEGC/+125DEGC, 0402, SMD	CAPACITOR_0402_1nF_X7R_M_+/-10%_50V	Manufacturer selection
D1	1	IR333-A		OPTO, LED, IR, 940nm, 0.1A, 0.15W, PTH	OPE5594A	KNOWLEDGE-ON
FB1-FB5	5	BLM15HG102SN1	0402	FILTER, INDUCTOR TYPE, 1000OHM@100MHZ, 25%,250mA, 0402, SMD	BLM15HG102SN1D	MURATA
L1,L3	2	2nH	0402	INDUCTOR, CHIP, 2nH, -0.3nH/+0.3nH, 0.3A, -55DEGC/+125DEGC, 0402, SMD	LQG15HS2N0S02D	MURATA
L2	1	1nH	0402	INDUCTOR, CHIP, 1nH, -0.3nH/+0.3nH, 0.3A, -55DEGC/+125DEGC, 0402, SMD	LQG15HS1N0S02D	MURATA
L4	1	3nH	0402	INDUCTOR, CHIP, 3nH, -0.3nH,+0.3nH, 0.3A, -55DEGC/+125DEGC, 0402, SMD	LQG15HS3N0S02D	MURATA
P1	1	FTSH-105-01-F-DV-K		CONNECTOR, HEADER, MALE, STRAIGHT, 10 PINS, 2 ROWS, PITCH 1.27mm, SMD	FTSH-105-01-F-DV-K	SAMTEC
Q3,Q4	2	BC817-16	SOT23-3	TRANSISTOR, BIPOLAR NPN, 45V, 0.5A, 0.25W, SOT23-3, SMD	BC817-16,215	NXP
Q5	1	2N7002	SOT23-3	TRANSISTOR, MOSFET N-CHANNEL, 60V, 0.3A, 0.83W, SOT23-3, SMD	2N7002,215	NXP
R1	1	56k	0402	RESISTOR, THICK FILM, 56k, -1%/+1%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	RESISTOR_0402_56k_+/-1%_50V_0.063W_M_+/-100PPM	Manufacturer selection
R2,R9	2	DNM		RESISTOR, DO NOT MOUNT, 0402, SMD		
R3	1	30	1210	RESISTOR, THICK FILM, 30, -5%/+5%, 0.33W, 200V, -55DEGC/+125DEGC, 1210, SMD	CRCW121030R0JNEA	VISHAY DALE
R4	1	220	0402	RESISTOR, THICK FILM, 220, -1%/+1%, 0.1W, 50V, -55DEGC/+155DEGC, 0402, SMD	ERJ2RKF2200X	PANASONIC INDUSTRIAL
R5,R10	2	2.2k	0402	RESISTOR, THICK FILM, 2.2k, -1%/+1%, 0.1W, 50V, -55DEGC/+155DEGC, 0402, SMD	ERJ2RKF2201X	PANASONIC INDUSTRIAL
R6,R18	2	1k	0402	RESISTOR, THICK FILM, 1k, -1%/+1%, 0.1W, 50V, -55DEGC/+155DEGC, 0402, SMD	ERJ2RKF1001X	PANASONIC INDUSTRIAL
R7	1	DNM		RESISTOR, DO NOT MOUNT, 0603, SMD		
R8,R12,R24	3	0	0402	RESISTOR, THICK FILM, 0, 0.1W, 50V, -55DEGC/+155DEGC, 0402, SMD	ERJ2GE0R00X	PANASONIC INDUSTRIAL
R11	1	0	0402	RESISTOR, JUMPER, 3 PORTS, -55DEGC/+155DEGC, 0402, SMD	RK73Z1ETTP	KOA SPEER
R13,R20	2	DNM	0402	RESISTOR, DO NOT MOUNT, 0402, SMD	DNM	DO NOT MOUNT
R14-R17	4	2.2k		RESISTOR NETWORK, CHIP ARRAY - 4 RESISTORS, 2.2k, -5%/+5%, 0.031W, 50V, -55DEGC/+155DEGC, SMD	EXBN8V222JX	PANASONIC INDUSTRIAL
R19	1	2k	0402	RESISTOR, THICK FILM, 2k, -1%/+1%, 0.1W, 50V, -55DEGC/+155DEGC, 0402, SMD	ERJ2RKF2001X	PANASONIC INDUSTRIAL
R21	1	2.7k	0402	RESISTOR, THICK FILM, 2.7k, -1%/+1%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	RESISTOR_0402_2.7k_+/-1%_50V_0.063W_M_+/-100PPM	Manufacturer selection
R22	1	15k	0402	RESISTOR, THICK FILM, 15k, -1%/+1%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	RESISTOR_0402_15k_+/-1%_50V_0.063W_M_+/-100PPM	Manufacturer selection
R23	1	47k	0402	RESISTOR, THICK FILM, 47k, -1%/+1%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	RESISTOR_0402_47k_+/-1%_50V_0.063W_M_+/-100PPM	Manufacturer selection
TP1,TP4-TP8	6	TP_0.5MM_PTH		TESTPOINT, 0.5MM HOLE, PTH		
U1	1	CC2541F256	VQFN40	IC, DIGITAL WIRELESS, 2.4-GHz BLUETOOTH® LOW ENERGY AND PRIOPRIETARY SYSTEM-ON-CHIP, 256 KB, 2V TO 3.6V, 'CC2541F256RHAR	CC2541F256RHAR	TEXAS INSTRUMENTS
U2	1	KXTF9	LGA10	IC, TRANSDUCER, TRI-AXIS DIGITAL ACCELEROMETER, 1.8V TO 3.6V, LGA10, SMD	KXTF9-2050	KIONIX
U4,U6	2	SN74LV164A	TSSOP14	IC, DIGITAL, LOGIC, 8 BIT PARALLEL OUT SERIAL SHIFT REGISTER, 2V TO 5.5V, TSSOP14, SMD	SN74LV164APWR	TEXAS INSTRUMENTS
U5,U7	2	TPS78330	SOT5	IC, ANALOG, ULTRA-LOW QUIESCENT CURRENT LOW-DROPOUT LINEAR REGULATOR, 2.2V TO 5.5V, SOT5, SMD	TPS78330DDCT	TEXAS INSTRUMENTS
U8	1	IMU-3000	QFN24	IC, GYROSCOPE, 2.1V TO 3.6V, QFN24, SMD	IMU-3000	INVENSENSE
Y1	1	32MHz	SMD	CRYSTAL, OSCILATOR, 32MHz, 10pF, -10PPM/+10PPM, -40DEGC/+85DEGC, SMD	FA-128 32MHz 10pF 10PPM	Epson Toyocom
Y2	1	32.768kHz		CRYSTAL, OSCILATOR, 32.768kHz, -20PPM/ + 20PPM, -40DEGC/ +85DEGC, 12.5pF, SMD	FC-12M 32.768kHz 20ppm	Epson Toyocom