

Ref.	Part name	Pcs/unit	Description	Manufacturer	Part number	Supplier	Ordering code	Alt.	Alt. Part	Alt. Supplier	Alt. Ordering	Comments
								Manufacturer	number		code	
A1	BMA250	1	3-AXIS ACCELEROMETER DIGITAL I/F	Bosch Sensortec	BMA250	Digikey	828-1023-1-ND					
B1	CR2032_SOCKET	1	Socket for CR2032 buttoncell battery	Keystone	3002	ELFA	69-525-27					
B2	CMT-1603	1	Piezo audio transducer, 25V, SMD	CUI Inc.	CMT-1603	Digikey	102-1193-1-ND					Yes
В3	147873-2	1	SMD 2 pin button switch	Tyco Electronics	147873-2							
B4	147873-2	1	SMD 2 pin button switch	Tyco Electronics	147873-2							
C2	C_100N_0402_X5 R_K_10	1	Capacitor, 100n, 0402, X5R, 10%, 10V	Murata	GRM155R71A104KA0 1D							
C3	C_100N_0402_X5 R_K_10	1	Capacitor, 100n, 0402, X5R, 10%, 10V	Murata	GRM155R71A104KA0 1D							
C7	C_47U_1206_X5R _K_6P3	1	Capacitor, 47u,1206, X5R, 10%, 6.3V	Murata	GRM31CR60J476KE1 9L							
C8	C_1N_0402_NP0_ J_50	1	Capacitor, 1n, 0402, NP0, 5%, 50V	Murata	GRM1555C1H102JA01 D							
C9	C_0805	1	Capacitor, general, 0805; Do not mount									
C10	C_2U2_0402_X5R _M_6P3VDC	1	Capacitor, 2u2, 0402, X5R, +/-20%, 6.3V	Murata	GRM155R60J225ME	TTI						
C11	C_2U2_0402_X5R _M_6P3VDC	1	Capacitor, 2u2, 0402, X5R, +/-20%, 6.3V	Murata	GRM155R60J225ME	ТТІ						
C21	C_2U2_0402_X5R _M_6P3VDC	1	Capacitor, 2u2, 0402, X5R, +/-20%, 6.3V	Murata	GRM155R60J225ME	тті						
C101	C_100N_0402_X5 R_K_10	1	Capacitor, 100n, 0402, X5R, 10%, 10V	Murata	GRM155R71A104KA0 1D							
C211	C_100N_0402_X5 R_K_10	1	Capacitor, 100n, 0402, X5R, 10%, 10V	Murata	GRM155R71A104KA0 1D							
C221	C_12P_0402_NP0 _J_50	1	Capacitor, 12p, 0402, NP0, 5%, 50V	Murata	GRM1555C1H120JA01 D							
C231	C_12P_0402_NP0 _J_50	1	Capacitor, 12p, 0402, NP0, 5%, 50V	Murata	GRM1555C1H120JA01 D							



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C241	C_100N_0402_X5 R_K_10	1	Capacitor, 100n, 0402, X5R, 10%, 10V	Murata	GRM155R71A104KA0 1D			Manufacture	number		code	
C251	C_18P_0402_NP0 _J_50	1	Capacitor, 18p, 0402, NP0, 5% 25V	Murata	GRM1555C1H180JZ01 D	ELFA	65-881-23					
C252	C_1P0_0402_NP0 _C_50	1	Capacitor, 1p, 0402, NP0, +/-0.25pF 50V	Murata	GRM1555C1H1R0CZ0 1D							
C253	C_1P0_0402_NP0 _C_50	1	Capacitor, 1p, 0402, NP0, +/-0.25pF 50V	Murata	GRM1555C1H1R0CZ0 1D							
C261	C_18P_0402_NP0 _J_50	1	Capacitor, 18p, 0402, NP0, 5% 25V	Murata	GRM1555C1H180JZ01 D	ELFA	65-881-23					
C262	C_1P0_0402_NP0 _C_50	1	Capacitor, 1p, 0402, NP0, +/-0.25pF 50V	Murata	GRM1555C1H1R0CZ0 1D							
C271	C_220P_0402_NP 0_J_50	1	Capacitor, 220p, 0402, NP0, 5%, 50V	Murata	GRM1555C1H221JA01 D							
C281	C_100N_0402_X5 R_K_10	1	Capacitor, 100n, 0402, X5R, 10%, 10V	Murata	GRM155R71A104KA0 1D							
C311	C_100N_0402_X5 R_K_10	1	Capacitor, 100n, 0402, X5R, 10%, 10V	Murata	GRM155R71A104KA0 1D							
C321	C_15P_0402_NP0 _J_50	1	Capacitor, 15p, 0402, NP0, 5%, 50V	Murata	GRM1555C1H150JA01 D							
C331	C_15P_0402_NP0 _J_50	1	Capacitor, 15p, 0402, NP0, 5%, 50V	Murata	GRM1555C1H150JA01 D							
C391	C_1U_0402_X5R_ K_6P3	1	Capacitor, 1u, 0402, X5R, 10%, 6.3V	Murata	GRM155R60J105KE19 D							
C401	C_1U_0402_X5R_ K_6P3	1	Capacitor, 1u, 0402, X5R, 10%, 6.3V	Murata	GRM155R60J105KE19 D							
D1	R_0_0603	1	Resistor, 0 ohm, 0603, ±1%	Koa	RK73Z1JTTD	ELFA	60-440-02					
D2	LED_EL209EGW	1	LED, red/green, 3.0mm, 2/2.1V, 10/3,6 mcd	Everlight	209SURSYGW/S530- A3	ELFA	75-010-26					
DEBUG	STL21	1	10 pins connector	FCI	20021121-000-10C4LF	Digikey	609-3695-2-ND	MPE-Garry GmbH	STL21-A01XX- 010-TRU	Freber		
L3	L_2U2_0805_N_L QM	1	Inductor, 2u2, 0805, ±30%	Murata	LQM21PN2R2NGC	ACTE		Citibili	310 1110			
L1	L_BEAD_102_040 2	1	EMI filter bead, 0402 1k ohms Tape GHz Band Gen Use	Murata	BLM15HG102SN1D	ACTE						



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L251	L_2N0_0402_S	1	Inductor, 2n0, 0402, +/-0.3 nH	Murata	LQG15HS2N0S02D			manadataro	Hamboi		0000	
L252	L_1N0_0402_S	1	Inductor, 1n0, 0402, Monolithic type, +/-0.3 nH	Murata	LQG15HS1N0S02D			Coilcraft				
L253	L_3N0_0402_S	1	Inductor, 3n0, 0402, Monolithic type, +/-0.3 nH	Murata	LQG15HS3N0S02D	ACTE		Coilcraft				
L261	L_2N0_0402_S	1	Inductor, 2n0, 0402, +/-0.3 nH	Murata	LQG15HS2N0S02D							
R2	R_2K7_0402_F	1	Resistor, 2k7 ohms, 0402, ±1%	Koa	RK73H1ETTP2701F	ELFA	60-482-50					
P1	PINROW_2	1	1x2 pinrow, 2.54mm pin header,single-row, straight, through- hole	Samtec	TSW-102-06-T-S							
R11	R_270_0402_F	1	Resistor, 270 ohms, 0402, ±1%	Koa	RK73H1E270RF-MR or RK73H1ETTP2700F	ELFA	60-885-61 or 60-477-73					
R12	R_270_0402_F	1	Resistor, 270 ohms, 0402, ±1%	Koa	RK73H1E270RF-MR or RK73H1ETTP2700F	ELFA	60-885-61 or 60-477-73					
R301	R_56K_0402_F	1	Resistor, 56k ohms, 0402, ±1%	Koa	RK73H1ETTP5602F	ELFA	60-488-96					
TEST	STL21	1	10 pins connector	FCI	20021121-000-10C4LF	Digikey	609-3695-2-ND	MPE-Garry GmbH	STL21-A01XX- 010-TRU	Freber		
U1	CC2541	1	2.4 GHz SoC	TI	CC2541	TI	CC2541	CITIBIT	010 1110			
U2	TPS62730	1	Step Down Converter with Bypass Mode for Ultra Low Power Wireless Applications	TI	TPS62730DRY	ТІ	TPS62730DRY					
X1	X_32.000/10/20/60 /10	1	Crystal, 32.000000MHz, FA-128, 10.0pF, +/-10ppm, (FTC: +/-20ppm at -40/85C), 60ohms	Epson Toyocom	FA-128, 32MHZ, 10PPM, 10PF, 2x1.6mm, -40/+85C, 600hms	ACTE	Q22FA1280009200					
X2	X_32.768/20/30/40 /12.5	1	Crystal, 32.768kHz, FC-12M, 12,5pF	Epson Toyocom	FC-12M, 32.768kHz, 20PPM, 12,5pF	ACTE				EC-Partner		
S1*	SNM-100-BK-G	1	1x2 pinrow shunt, 2.54mm pin spacing, single-row, straight, throughhole	Samtec	SNM-100-BK-G							



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Total no		50										
* The shunt S1 is used to short the P1 pin row. The shunt should not be mounted but should be included with the board as part of the kit.												

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