

Bill of Materials

Ref.	Part name	Pcs/unit	Description	Manufacturer	Part number	Supplier	Ordering code	Alt. Manufacturer	Alt. Part number	Alt. Supplier	Alt. Ordering code	Comments
U1	CC1120	1	TI Transceiver									#N/A
U2	CC1190	1	LNA and PA 26 dBm									
C28,C54;C176-177;C302	C_0402	5	Do not mount									
C111	C_0P8_0402_NP0_B_50	1	Capacitor, 0.8p, 0402, NP0, +/-0.1pF, 50V	Murata	GRM1555C1HR80BZ01D							
C12;C321	C_100N_0402_X5R_K_10	2	Capacitor, 100n, 0402, X5R, 10%, 10V	Murata	GRM155R71A104KA01D							
C172	C_100P_0402_NP0_J_50	1	Capacitor, 100p, 0402, NP0, 5% 50V	Murata	GRM1555C1H101JZ01D							
C171;C211	C_10N_0402_X7R_K_25	2	Capacitor, 10n, 0402, X7R, 10%, 25V	Murata	GRM155R71E103KA01D							
C25	C_7P5_0402_NP0_C_50	1	Capacitor, 7p5, 0402, NP0, +/-0.25pF 50V	Murata	GRM1555C1H7R5CZ01D							
C2	C_10U_0603_X5R_M_4	1	Capacitor, 10u, 0603, X5R, 20%, 4V	Murata	GRM188R60G106ME47D							
C22;C52	C_12P_0402_NP0_J_50	2	Capacitor, 12p, 0402, NP0, 5%, 50V	Murata	GRM1555C1H120JA01D							
C132;C174;C301;C311	C_15P_0402_NP0_J_50	4	Capacitor, 15p, 0402, NP0, 5%, 50V	Murata	GRM1555C1H150JA01D							
C231	C_1N8_0402_U2J_J_10	1	Capacitor, 1n8, 0402, U2J, 5%, 10V	Murata	GRM1557U1A182JA01D							
C27	C_1N_0402_NP0_J_50	1	Capacitor, 1n, 0402, NP0, 5%, 50V	Murata	GRM1555C1H102JA01D							
C30	C_1U_0402_X5R_K_6P3	1	Capacitor, 1u, 0402, X5R, 10%, 6.3V	Murata	GRM155R60J105KE19D							
C61	C_220N_0402_X5R_K_10	1	Capacitor, 220n, 0402, X5R, 10%, 10V	Murata	GRM155R61A224KE19D							
C3	C_220P_0402_NP0_J_50	1	Capacitor, 220p, 0402, NP0, 5%, 50V	Murata	GRM1555C1H221JA01D							
C322	C_22P_0402_NP0_J_50	1	Capacitor, 22p, 0402, NP0, 5%, 50V	Murata	GRM1555C1H220JZ01D							
C161	C_27P_0402_NP0_J_50	1	Capacitor, 27p, 0402, NP0, 5%, 50V	Murata	GRM1555C1H270JZ01D							
C181	C_2P2_0402_NP0_C_50	1	Capacitor, 2p2, 0402, NP0, +/-0.25pF, 50V	Murata	GRM1555C1H2R2CZ01							
C24;C175	C_2P4_0402_NP0_B_50	2	Capacitor, 2p4, 0402, NP0, +/-0.1pF, 50V	Murata	GRM1555C1H2R4BZ01							
C210	C_2P7_0402_NP0_C_50	1	Capacitor, 2p7, 0402, NP0, +/-0.25pF, 50V	Murata	GRM1555C1H2R7CZ01D							
C53	C_2U2_0603_X5R_K_10	1	Capacitor, 2u2, 0603, X5R, 10%, 10V	Murata	GRM188R61A225KE34D							
C173	C_33P_0402_NP0_J_50	1	Capacitor, 33p, 0402, NP0, 5%, 50V	Murata	GRM1555C1H330JZ01D							
C191;C201	C_3P0_0402_NP0_C_50	2	Capacitor, 3p0, 0402, NP0, +/-0.25pF, 50V	Murata	GRM1555C1H3R0CZ01D							
C23	C_3P3_0402_NP0_C_50	1	Capacitor, 3p3, 0402, NP0, +/-0.25pF, 50V	Murata	GRM1555C1H3R3CZ01D							
C11;C51;C121;C131;C151;C221;C251;C261;C271;C281;C291	C_47N_0402_X7R_K_25	11	Capacitor, 47n, 0402, X7R, 10%, 25V	Murata	GRM155R71E473KA88D							
C21;C26	C_47P_0402_NP0_J_50	2	Capacitor, 47p, 0402, NP0, 5%, 50V	Murata	GRM1555C1H470JZ01D							
U3	EPCOS_B3725	1	SAW filter, 869 MHz	EPCOS	B3725	#N/A Arrow	#N/A B39871B3725U410	#N/A	#N/A	#N/A	#N/A	#N/A
L111	L_10N_0402_G_LQW	1	Inductor, 10n, 0402, ±2%, wire-wound type	Murata	LQW15AN10NG00D	Mouser	81-LQW15AN10NG00D					
L2	L_11N_0402_J_LQW	1	Inductor, 11n, 0402, ±5%, wire-wound type	Murata	LQW15AN11NJ00							
L172;L174;L192-193;L201	L_12N_0402_J_LQW	5	Inductor, 12n, 0402, ±5%, wire-wound type	Murata	LQW15AN12NJ00D							
L161	L_15N_0402_J	1	Inductor, 15n, 0402, ±5%	Murata	LQG15HS15NJ02D							
L191	L_15N_0402_J_LQW	1	Inductor, 15n, 0402, ±5%, wire-wound type	Murata	LQW15AN15NJ00D							
L173	L_18N_0402_J_LQW	1	Inductor, 18n, 0402, ±5%, wire-wound type	Murata	LQW15AN18NJ00D							
L130	L_1N5_0402_S	1	Inductor, 1n5, 0402, Monolithic type, +/-0.3 nH	Murata	LQG15HS1N5S02D			Coilcraft				
L21	L_22N_0603_J_LQW	1	Inductor, 22n, 0603, ±5%, wire-wound type	Murata	LQW18AN22NJ10							
L25	L_2N7_0402_S	1	Inductor, 2n7, 0402, +/-0.3 nH	Murata	LQG15HS2N7S02D							

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L23	L_2N9_0402_B_LQW	1	Inductor, 2n9, 0402, wire-wound type, ±0.1nH	Murata	LQW15AN2N9B00D							
L22	L_7N5_0402_G_LQW	1	Inductor, 7n5, 0402, ±2%, wire-wound type	Murata	LQW15AN7N5G00	ACTE						
L171	L_8N2_0402_G_LQW	1	Inductor, 8n2, 0402, ±2%, wire-wound type	Murata	LQW15AN8N2G00D							
L24	L_9N1_0402_G_LQW	1	Inductor, 9n1, 0402, ±2%, wire-wound type	Murata	LQW15AN9N1G00D							
L1	L_BEAD_102_0402	1	EMI filter bead, 0402 1k ohms Tape GHz Band Gen Use	Murata	BLM15HG102SN1D	ACTE						
P4	PINROW_SMD_2X7_2.54MM PEG	1	2x7 pinrow, 2.54mm pitch, SMD type with locating peg	GradConn	BB02-HP141-KB3-060A00	Freber						
R12;R321	R_0402	2	Resistor, general, 0402; Do not mount									
R322	R_0_0402	1	Resistor, 0 ohm, 0402	Koa	RK73Z1ETTP	ELFA	60-470-05					
R3-5	R_10K_0402_F	3	Resistor, 10k ohms, 0402, ±1%	Koa	RK73H1ETTP1002F	ELFA	60-485-32					
R171	R_10_0402_J	1	Resistor, 10 ohms, 0402, 5%	Koa	RK73H1ETTP10R0F (±1%)	ELFA	60-470-96					
R141	R_3K3_0402_F	1	Resistor, 3k3 ohms, 0402, ±1%	Koa	RK73H1ETTP3301F	ELFA	60-482-92					
R151	R_47_0402_G	1	Resistor, 47 ohms, 0402, 2%	Koa	RK73H1ETTP47R0F (±1%)	ELFA	60-474-19					
R142	R_56K_0402_F	1	Resistor, 56k ohms, 0402, ±1%	Koa	RK73H1ETTP5602F	ELFA	60-488-96					
P3	SMA_SMD	1	SMA connector, straight SMD-mount	Hus-Tsan Group Taiwan	SMA-10V21-TGG	EC Partner A/S	SMA-10V21-TGG					
P9-10	SMD_SOCKET_2x10	2	SMD pinrow socket, .050 spacing, 2x10	Samtec	SFM-110-02-SM-D-A-K-TR	Abacus						
X2	TG_5021CG	1	Do not mount									
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, 60ohms	ACTE	Q22FA1280009200					
P5	Shield BMIS-202	1	Do not mount	Laird	BMI-S-202-F	ELFA	50-011-28					
P5 cover	Shield BMIS-202 cover	1	Do not mount	Laird	BMI-S-202-C	ELFA	50-011-36					

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