

AR5002X
MB32 Bill of Materials

Item	Part Description	Quantity	Location	Vendor	Vendor Part Number
1	CAP,0402,NPO, 0.5pF,+/- 0.1pF, 25V	4	C1a(B2),C2a(B2),C95(A2),C102(A2)	muRata	GRM36COG0R5B50
2	CAP,0402,NPO, 1pF,+/- 0.25pF,50V	11	C44(C2),C68(D2),C74(D2), C75(C2),C79(B2),C91(B2),C96(A2) C120(B2),C3a(B2),C145(A2),C142(A2)	1. Murata 2. PHYCOMP	1. GRM36COG010C050 2. 0402CG109C9B200
3	CAP,0402,NPO, 1.5pF,+/- 0.1pF,50V	1	C143(A2)	MURATA	GRM36COG1R5B050
4	CAP,0402,NPO, 2.2pF,+/- 0.25pF, 50V	5	C33(C1),C39(C1),C41(C1),C45(C2), C114(A2),	1.MURATA	1. GRM36COG2R2C050
5	CAP,0402,NPO, 2.7pF,+/- 0.25pF, 50V	1	C113(B2),	Phycomp	2238 869 15278
6	CAP,0402,NPO, 3.3pF,+/- 0.25pF, 50V	1	C110(B2)	muRata	GRM36COG3R3C050
7	CAP,0402,NPO, 10pF, +/- 5%, 50V	31	C10(C3),C11(C4),C18(C4),C19(C3),C20(D1), C21(B2),C24(C2),C29(C1),C30(C1), C36(D1),C38(C1),C40(C1),C46(C2),C47(C1), C55(D2),C58(C2),C73(D2),C82(A1),C87(B2), C88(B1),C98(B1),C99(A1),C104(A2),C106(A2) C111(A2),C112(B1),C116(B1),C117(B1), C118(B2),C134(A2),C43(C1),	1.MURATA	1. GRM36COG100J050
8	18pF, 0603, +/- 2%, 50V, NPO	2	C60(D2),C59(D2)	Phycomp	2238-867-15189
9	CAP,0402,NPO, 22pF,+/- 5%, 50V	3	C1(D2),C2(B3),C3(C2)	1.MURATA	1. GRM36COG220J050
10	CAP,0402,NPO, 47pF,+/- 5%, 50V	2	C70(C2),C69(C2)	muRata	GRM36COG470J050
11	CAP,0402,NPO, 100pF,+/- 5%, 50V	4	C5a(B2),C8a(B2),C9a(B2),C10a(B2)	Murata	GRM36COG101J50
12	CAP,0402,NPO, 120pF,+/- 5%, 50V	3	C80(A3),C86(B2),C115(A2)	Phycomp	2238-869-15121
13	CAP,0402,X7R, 220pF,+/- 10%, 50V	1	C130(A3)	muRata	GRM36COG221J050
14	CAP,0402,X7R, 330pF,+/- 5%, 50V	3	C23(D1),C109(B1),C119(B3)	1.MURATA 2. Phycomp	1. GRM36X7R331K050 2. 2238-587-15516
15	CAP,0402,X7R,1000pF,+/- 10%, 25V	4	C121(A3),C133(B3),C139(B3),C11a(B2)		
16	CAP,0402,X7R,0.01uF,+/- 10%, 25V	9	C4(C3),C5(C4),C6(D3),C12(C4),C13(D3), C14(D3),C25(D1),C48(C2),C6a(B2)	1.MURATA 2. Phycomp	1. GRM36X7R103K016 2. 2238-787-15636
17	CAP,0402,X5R,0.1uF,+/- 10%, 10V	14	C7(C3),C8(C4),C9(D3),C15(D3),C16(C3), C17(D2),C26(A2),C27(B1),C51(D2),C52(D1), C77(C2),C123(D1),C127(B3),C353(A4)	1.MURATA	GRM36X5R104K010
18	CAP,0603,X5R,1uF,+/- 10%, 10V	7	C49(C1),C76(D2),C108(B3),C122(A3),C128(D2) C144(A1),C7a(B2)	TAIYO YUDEN	LMK107BJ105KA
19	CAP,0805,X5R,2.2uF, +/- 10%, 6.3V	5	C124(D1),C125(D1),C126(B3),C129(A3), C138(B3)	TAIYO YUDEN	LMK212BJ225KG
20	CAP,1206,X5R,10uF,+/-10%, 6.3V, 1.6mm tall	2	C132(A2),C131(A3)	1.TAIYO YUDEN	JMK316 BJ106KL-T
21	DIO_SINGLE_SC-79_SCHOTTKY DETECTOR	1	D1(A2)	ALPHA INDUSTRIES	SMS7621-079
22	RF_SPEC,BALUN,5GHz	1	F1(C2)	1.Murata	1. LDB215G5110C-001
23	DIPLEXER,SMD,6PIN	1	F6(A2)	1. NTK 2. Soshin	1. LDG0UQD-3060C 2. MDR880J-T
24	RF_SPEC,BAND PASS FILTER,2.4GHz	1	F7(B1)	ACX	BF2520-B2R4CACT
25	RF_SPEC,BAND PASS FILTER,2GHz	1	F8(B2)	Murata	LFB2H2G45SG7A204
26	CON,Ultra-Miniature Coax	2	J6(A1),J7(B1)	Hirose	U.FL-R-SMT (01)
27	IND,0402,1.5nH,+/- 0.1nH	1	L44(A2)	1.Cyntec	CTL0510-1N5-B
28	IND,0402,1.8nH,+/- 0.1nH	1	L22(A1)	1.Cyntec	CTL0510-1N8-B
29	IND,0402,3.0nH,+/- 0.1nH	6	L41(C2), L42(C2),L33(C2),L34(C2),L32(A2),L29(A2)	1.Cyntec	CTL0510-3N0-B

AR5002X
MB32 Bill of Materials

30	IND,0402,3.1nH,+/- 0.1nH	2	L25(A2),L50(C2)	Viking Tech.	AL02BT3N1
31	IND,0402,5.1nH,+/- 0.3nH	1	L1a(B2)	MURATA	LQG15HN5N1S02D
32	IND,0402,8.2nH,+/- 5%	2	L27(B2),L28(B2)	1. MURATA 2.ACX	1. LQG15HN8N2J02B 2. HI1005-1B8N2JMT
33	IND,0402,15nH,+/- 5%	1	L2a(B2)	MURATA	LQW15AN15NJ00D
34	IND,0402,18nH,+/- 5%	3	L12(A2),L30(B1),L31(B1)	MURATA	LQG15HN18NJ02B
35	IND,1008,WW, 2.2uH, +/- 20%	1	L17(A3)	PANASONIC	ELJ-PC2R2MF
36	IND,0603, 15uH, +/-10%	1	L43(A1)	TDK	MLF1608C150K
37	FER_0805, BK2125	4	L13(D1),L14(D2),L15(B3),L16(D2)	TAIYO YUDEN	LFBK2125LM252
38	Planar type NPN transistor	2	Q1a(B2),Q2a(B2)	Toshiba	MT3S16FS
39	SOT-23 / NPN_350MW	3	Q2(A2),Q7(A2),Q9(A4)		
40	TRA,SOT-23,Power Mosfet	2	Q11(A4),Q12(A3)	International Rectifier	IRLML6401
41	SOT-23 / PNP_350MW	3	Q3(A2),Q5(A2),Q8(A3)		
42	RF_SPEC,HEMT,SOT-343,LNA,5GHz	1	Q4(B2)	AGILENT	ATF-55143
42	RF_SPEC, LNA,2.4GHz	1	Q6(B2)	Sirenza	SGA-8343
43	RES,0402, 0 OHMS, +/- 5%, 1/16W	4	R20(C2),R21(C2),R60(D3),R88(D4),	1.□□(YAGEO)	RC0402FR-070R
44	RES,0805, 0 OHMS, +/- 5%, 1/8W	1	R113(A2)	1.□□(YAGEO)	RC0805JR-070R
45	RES,1206, 0 OHMS, +/-5%, 1/4W	1	R120(B2)	1.□□(YAGEO)	RC1206JR-070R
46	RES,0402, 15 OHMS, +/- 1%, 1/16 W	1	R43(B1)	1.□□(YAGEO)	RC0402FR-0715R
47	RES,0402, 39 OHMS, +/- 5%, 1/16 W	1	R32(B2)	1.□□(YAGEO)	RC0402JR-0739R
48	RES,0402, 47 OHMS, +/- 5%, 1/16 W	4	R48(A2),R38(A1),R116(C1),R50(B3)	1.□□	RM04JT470
49	RES,0402, 68 OHMS, +/- 5%, 1/16 W	1	R15(D2)	1.□□(YAGEO)	RC0402JR-0768R
50	RES,0402, 82.5 OHMS, +/- 1%, 1/16W	1	R28(A2)	1.□□(YAGEO)	RC0402FR-0782R5
51	RES,0402, 100 OHMS, +/- 1%, 1/16W	2	R92(A3),R3a(B2)	1.□□(YAGEO)	RC0402FR-07100R
52	RES,0402, 150 OHMS, +/- 5%, 1/16 W	1	R89(A3)	1.□□(YAGEO)	RC0402JR-07150R
53	RES,0402, 187 OHMS, +/- 1%, 1/16 W	2	R82(D4),R85(D4),	1.□□(YAGEO)	RC0402FR-07187R
54	RES,0402, 200 OHMS, +/- 1%, 1/16W	1	R51(B3)	1.□□(YAGEO)	RC0402FR-07200R
55	RES,0402, 220 OHMS, +/- 1%, 1/16W	1	R4a(B2)	1.□□(YAGEO)	RC0402FR-07220R
56	RES,0402, 680 OHMS, +/- 1%, 1/16W	1	R2a(B2)	1.□□(YAGEO)	RC0402FR-07680R
57	RES,0402, 1.1K OHMS, +/- 1%, 1/16W	2	R49(A2),R34(A2)	1.□□(YAGEO)	RC0402FR-071K1
58	RES,0402, 3K OHMS, +/- 1%, 1/16W	1	R1a(B2)	1.□□(YAGEO)	RC0402FR-073K
59	RES,0402, 3.09K OHMS, +/- 1%, 1/16W	3	R13(C2),R23(C2),R6(A4),	1.□□(YAGEO)	RC0402FR-073K09
60	RES,0402, 3.57K OHMS, +/- 1%, 1/16 W	2	R31(A2),R46(A1)	1.□□(YAGEO)	RC0402FR-073K57
61	RES,0402, 4.7K OHMS, +/- 1%, 1/16 W	1	R5(A4)	1.□□(YAGEO)	RC0402FR-074K7
62	RES,0402, 5.11K OHMS, +/- 1%, 1/16 W	1	R29(A2)	1.□□(YAGEO)	RC0402FR-075K11
63	RES,0402, 6.19K OHMS, +/- 1%, 1/16 W	2	R25(D2),R2(D2)	1.□□(YAGEO)	RC0402FR-076K19
64	RES,0402, 10K OHMS, +/- 1%, 1/16 W	9	R26(A3),R52(A2),R54(D2),R93(A2),R94(A3), R55(D3), R101(A3),R104(D3),R10(A4),	1.□□(YAGEO)	RC0402FR-0710K
65	RES,0402, 30.1K OHMS, +/- 1%, 1/16 W	1	R63(A3)	1.□□(YAGEO)	RC0402FR-0730K1
66	RES,0402, 91K OHMS, +/- 1%, 1/16W	1	R90(A3)	1.□□(YAGEO)	RC0402FR-0791K
67	RES,0402, 1M OHMS, +/- 5%, 1/16 W	1	R22(D2)	1.□□(YAGEO)	RC0402JR-071M
68	RES,0402, 6.8M OHMS, +/- 5%, 1/16 W	1	R114(B3)	□□	RM04JT685
69	RF_SPEC,SWI,5-6GHz T/R Switch	1	S1(A1)	1. MA/COM 2. Hexwave	1. MASWSS0094 HWS411 2.
70	AR5213, BGA 196, BASEBAND, (VENICE)	1	U1(C3)	ATHEROS	AR5213

AR5002X
MB32 Bill of Materials

71	16K serial EEPROM, SOP-8	1	U2(D3)	1. Atmel 2. Catalyst Microchip 3.	1. AT93C86-10SI-2.7 2. CAT93C86S 3. 93LC86B
72	AR5112, 64 LLCC RADIO, DUAL BAND, (DERBY)	1	U3(C1)	ATHEROS	AR5112
73	RF_SPEC,PA,5 GHz	1	U4(B2)	Murata	XM5060PE-SF1701
74	RF_SPEC,PA,2.4GHz	1	U5(B2)	Microsemi	LX5510
75	IC,SC70,UHS Dual Buffer	1	U7(A4)	FAIRCHILD	NC7WZ07P6X
76	XTAL,SMD,32.768KHz,4pin,+/- 20ppm,Load Cap 12.5pF+	1	Y1(B3)	1. Micro crystal 2. Epson	1.1. MS3V-T1R 32.768KHZ +- 20ppm 12.5pf 2. MC-146 32.768K 12.5+-20
77	REG,SOT-25,600mA,Adjustable,Synch Step Down	1	VR1(A3)	LINEAR TECHNOLOGY	LTC3406ES5
78	XTAL,SMD,40MHz,4pin,+/- 20PPM_LEADLESS CRYSTAL	1	Y2(D2)	KINSEKI LMT.(KSS)	CX-96F-40.000
79	600mA LDO SOT 89 lead free	1	VR2(B3)	AME	AME8805MEFTZ