

Item	Quantity	Reference	Description	Vendor	Vendor Part Number	Alternate Vendor	Alternate Vendor Part Number	Atheros Part Number
1	3	C1, C2, C3	CAP,0402,NPO,22pF,+/- 5%, 50V	PHYCOMP	0402CG220J9B200			031-220CJ-000
2	8	C4, C5, C6, C12, C13, C14, C25, C48	CAP,0402,X7R,0.01uF,+/- 10%, 25V	TAIYO YUDEN	TMK105BJ103KV			031-103CK-004
3	14	C7, C8, C9, C15, C16, C17, C26, C27, C51, C52, C77, C123, C127, C353	CAP,0402,X5R,0.1uF,+/- 10%, 10V	TAIYO YUDEN	LMK105BJ104KV			031-104CK-012
4	30	C10, C11, C18, C19, C20, C21, C24, C29, C30, C36, C38, C43, C46, C47, C55, C58, C73, C82, C87, C88, C98, C99, C104, C106, C111, C112, C116, C117, C118, C134	CAP,0402,NPO,10pF,+/- 5%, 50V	PHYCOMP	0402CG100J9B200			031-100CJ-000
5	3	C23, C109, C119	CAP,0402,X7R,330pF,+/- 10%, 50V	PHYCOMP	0402R331K9B20D			031-331CK-000
6	5	C33, C39, C41, C45, C114	CAP,0402,NPO,2.2pF,+/- 0.25pF, 50V	PHYCOMP	0402CG229C9B200			031-2R2CC-000
7	10	C44, C68, C74, C75, C79, C91, C96, C97, C354, C358	CAP,0402,NPO,1pF,+/- 0.25pF,50V	PHYCOMP	0402CG109C9B200			031-010CC-000
8	8	C49, C76, C108, C122, C128, C144, C346, C347	CAP,0603,X5R,1uF,+/- 10%, 10V	TAIYO YUDEN	LMK107BJ105KA			032-105CK-002
9	2	L25, C50	IND,0402,3.9nH,+/- 0.1nH	MURATA	LQP15MN3N9B02			071-3R9LB-000
10	2	C59, C60	CAP,0603,NPO,18pF,+/- 2%, 50V	PHYCOMP	0603CG180G9B200			032-180CG-000
11	2	C70, C69	CAP,0402,NPO,47pF,+/- 5%, 50V	PHYCOMP	0402CG470J9B200			031-470CJ-000
12	3	C80, C86, C115	CAP,0402,NPO,120pF,+/- 5%, 50V	PHYCOMP	0402CG121J9B200			031-121CJ-000
13	5	C95, C102, C350, C357, C359	CAP,0402,NPO,0.5pF,+/- 0.1pF, 25V	JOHANSON TECHNOLOGY	250R07C0R5BV4			031-0R5CB-004
14	1	C100	CAP,0402,NPO,1.8pF,+/- 0.25pF,50V	PHYCOMP	0402CG189C9B200			031-1R8CC-000
15	4	C101, C121, C133, C139	CAP,0402,X7R,1000pF,+/- 10%, 50V	PHYCOMP	0402R102K9B20D			031-102CK-000
16	1	C110	CAP,0402,NPO,3.3pF,+/- 0.25pF, 50V	PHYCOMP	0402CG339C9B200			031-3R3CC-000
17	1	C113	CAP,0402,NPO,2.7pF,+/- 0.25pF, 50V	PHYCOMP	0402CG279C9B200			031-2R7CC-000
18	5	C124, C125, C126, C129, C138	CAP,0805,X5R,2.2uF,+/- 10%, 10V	TAIYO YUDEN	LMK212BJ225KG			033-225CK-002
19	2	C130, C348	CAP,0402,X7R,220pF,+/- 10%, 50V	PHYCOMP	0402R221K9B20D			031-221CK-000
20	2	C132, C131	CAP,1206,X5R,10uF,+/-10%, 6.3V, 1.6mm tall	TAIYO YUDEN	JMK316BJ106KL			034-106CK-001
21	1	D1	DIO,SINGLE_SC-79,SCHOTTKY DETECTOR	Skyworks Solutions	SMS7621-079			125-00013-000
22	1	D2	DIO,SWITCHING PIN DIODE	Skyworks Solutions	SMP1352-079			125-10005-000
23	1	F1	RF_SPEC,BALUN,5GHz	TDK	HHM1562B	JOHANSON TECHNOLOGY	5512BL15B100	160-30013-000
24	1	F6	DIPLEXER,SMD,6PIN	NTK	LDG0UQD-3060C	Soshin	MDR888F	160-50001-000
25	1	F7	RF_SPEC,BAND PASS FILTER,2.4GHz	TDK	DEA252400BT-2030A1	Soshin	MDR746F	160-00011-000
26	1	F8	RF_SPEC,BAND PASS FILTER,2.4GHz	MURATA	LFB2H2G45SG7A204	Soshin	MDR767F	160-00016-000
27	2	J6, J7	CON,Ultra-Miniature Coax	Hirose	U,FL-R-SMT (01)	IPEX	20279-001E-01	141-00003-000
28	4	L12, L30, L31, L47	IND,0402,18nH,+/- 5%	MURATA	LQG15HN18NJ02			071-180LJ-000
29	4	L13, L14, L15, L16	FER,0805,BK2125	TAIYO YUDEN	LFBK2125LM252			080-05001-000
30	1	L17	IND,1008,WW,2.2uH,+/- 20%	PANASONIC	ELJ-PC2R2MF			074-222L-M-000
31	1	L22	IND,0402,2.2nH,+/- 0.1nH	MURATA	LQP15MN2N2B02			071-2R2LB-000
32	2	L27, L28	IND,0402,8.2nH,+/- 5%	MURATA	LQG15HN8N2J02			071-8R2LJ-000
33	10	R20, R21, L29, L32, R60, R84, R87, R88, R118, R119	RES,0402,0 OHMS,+/- 5%, 1/16W	R. G. ALLEN CO	CR10B000JT			051-000RJ-000
34	4	L33, L34, L41, L42	IND,0402,3.3nH,+/- 0.1nH	MURATA	LQP15MN3N3B02			071-3R3LB-000
35	1	L43	IND,0603,15uH,+/- 10%	TDK	MLF1608C150K			072-153LK-000
36	1	L44	IND,0402,1.8nH,+/- 0.1nH	MURATA	LQP15MN1N8B02			071-1R8LB-000
37	1	L46	IND,0402,1.5nH,+/- 0.1nH	MURATA	LQP15MN1N5B02			071-1R5LB-000
38	1	L48	IND,0402,2.7nH,+/- 0.1nH	MURATA	LQP15MN2N7B02			071-2R7LB-000
39	3	Q2, Q7, Q9	SOT-23 / NPN 350MW	CENTRAL SEMI	CMPT3904			130-00006-000
40	3	Q3, Q5, Q8	SOT-23 / PNP 350MW	CENTRAL SEMI	CMPT3906			130-00007-000
41	2	Q4, Q6	RF_SPEC,LNA,2.4GHz	Sirenza	SGA-8343			160-30005-000
42	2	Q12, Q11	TRA,SOT-23,Power Mosfet	International Rectifier	IRLML6401			130-00011-000
43	2	R25, R2	RES,0402,6.19K OHMS,+/- 1%, 1/16 W	R. G. ALLEN CO	CR10A6191FT			051-6191F-000
44	1	R5	RES,0402,4.7K OHMS,+/- 5%, 1/16W	R. G. ALLEN CO	CR10B472JT			051-472RJ-000
45	3	R6, R13, R23	RES,0402,3.09K OHMS,+/- 1%, 1/16W	R. G. ALLEN CO	CR10A3091FT			051-3091F-000
46	9	R10, R26, R31, R52, R54, R93, R94, R101, R104	RES,0402,10K OHMS,+/- 1%, 1/16 W	R. G. ALLEN CO	CR10A1002FT			051-103RF-000
47	1	R15	RES,0402,68 OHMS,+/- 5%, 1/16 W	R. G. ALLEN CO	CR10B680JT			051-680RJ-000
48	1	R22	RES,0402,1M OHMS,+/- 5%, 1/16 W	R. G. ALLEN CO	CR10B105JT			051-105RJ-000
49	2	R28, R43	RES,0402,15 OHMS,+/- 1%, 1/16 W	R. G. ALLEN CO	CR10A15R0FT			051-150RF-000
50	2	R46, R29	RES,0402,3.57K OHMS,+/- 1%, 1/16 W	R. G. ALLEN CO	CR10A3571FT			051-3571F-000
51	1	R32	RES,0402,39 OHMS,+/- 5%, 1/16 W	R. G. ALLEN CO	CR10B390JT			051-390RJ-000
52	2	R49, R34	RES,0402,1.1K OHMS,+/- 1%, 1/16W	R. G. ALLEN CO	CR10A1101FT			051-112RF-000
53	4	R38, R48, R50, R116	RES,0402,47 OHMS,+/- 5%, 1/16 W	R. G. ALLEN CO	CR10B470JT			051-470RJ-000
54	2	R39, R107 (see Note 3)	RES,0402,100 OHMS,+/- 1%, 1/16W	R. G. ALLEN CO	CR10A1000FT			051-1000F-000
55	1	R108	RES,0402,620 OHMS,+/- 5%, 1/16W	R. G. ALLEN CO	CR10B621JT			051-621RJ-000
56	1	R109	RES,0402,910 OHMS,+/- 5%, 1/16W	R. G. ALLEN CO	CR10B911JT			051-911RJ-000
57	2	R51, R115	RES,0402,200 OHMS,+/- 1%,1/16W	R. G. ALLEN CO	CR10A2000FT			051-201RF-000
58	2	R59, R58	RES,0402,187 OHMS,+/- 1%, 1/16 W	R. G. ALLEN CO	CR10A1870FT			051-1870F-000
59	1	R63	RES,0402,30.1K OHMS,+/-1%, 1/16 W	R. G. ALLEN CO	CR10A3012FT			051-3012F-000
60	1	R89 (see Note 2)	RES,0402,150 OHMS,+/- 5%, 1/16 W	R. G. ALLEN CO	CR10B151JT			051-151RJ-000
61	1	R90	RES,0402,90.9K OHMS,+/- 1%, 1/16W	R. G. ALLEN CO	CR10A9092FT			051-9092F-000
62	1	R92	RES,0402,100 OHMS,+/- 5%, 1/16W	R. G. ALLEN CO	CR10B101JT			051-101RJ-000
63	2	R105, R106	RES,0402,10 OHMS,+/- 5%, 1/16W	R. G. ALLEN CO	CR10B100JT			051-100RJ-000
64	1	R113	RES,0805,0 OHMS,+/- 5%, 1/8W	R. G. ALLEN CO	CR21B000JT			053-000RJ-000
65	1	R114	RES,0402,6.8M OHMS,+/- 5%, 1/16W	R. G. ALLEN CO	CR10B685JT			051-685RJ-000
66	1	R120	RES,1206,0 OHMS,+/-5%, 1/4W	R. G. ALLEN CO	CR32B000JT			054-000RJ-000
67	1	S1	RF_SPEC,SWI,DPDT Diversity	M/A-COM	MASWSS0094	Hexawave	HWS383	160-20012-000
68	1	U1	AR5213, BGA 196, BASEBAND, (HAINAN)	ATHEROS	AR5213			100-20003-000
69	1	U2	EEPROM,16K,TSSOP8	Atmel	AT93C86-10TI-2.7			135-00009-000
70	1	U3	AR5112, 64 LLCC RADIO, DUAL BAND, (DERBY)	ATHEROS	AR5112			100-00004-000
71	1	U4	RF_SPEC,PA,5 GHz	Microsemi	LX5506			160-30012-000
72	1	U5	RF_SPEC,PA,2.4GHz	Microsemi	LX5510			160-30014-000
73	1	U7	IC,SC70,UHS Dual Buffer	FAIRCHILD	NC7WZ07P6X			101-00028-000
74	1	VR1	REG,SOT-25,600mA,Adjustable,Synch Step Down	LINEAR TECHNOLOGY	LTC3406ES5			170-00021-000
75	1	VR2	REG,SM,OT-89,600mA,1.8V,LDO	AME	AME8805MEFT			170-00026-000
76	1	Y1	XTAL,SMD,32.768KHz,4pin,+/- 50ppm,Load Cap 6pF+	Epson	MC-146-32.7680K-A			122-00009-000
77	1	Y2	XTAL,SMD,40MHz,4pin,+/- 18PPM_LEADLESS CRYSTAL, CL=15pF	KINSEKI LMT,(KSS)	CX-96F-40	eCERA (see Note 1)	FY4000010	122-00006-000

Note 1 If eCera XTAL is used, C59 needs to be changed to 15pF

Note 2 xbias2 may be used in place of TX2 by removing R89 and installing R122=0ohms. Preliminary testing shows a slight decrease in power consumption at high voltage (3.6Vdc); but through characterization has

Note 3 xbias5 may be used in place of TX5 by removing R39 and installing R121=0ohms. Preliminary testing shows a slight decrease in power consumption at high voltage (3.6Vdc); but through characterization has

Item	Quantity	Reference	Description	Vendor	Vendor Part Number	Alternate Vendor	Alternate Vendor Part Number	Atheros Part Number
1	1		Printed Circuit Board	Tyco	250-01184-040			250-01184-040
2	1		Shield	Speed Tech Corp	X0088-401-02			298-05801-000

No Load Components

Item	Quantity	Reference	Description	Vendor	Vendor Part Number	Alternate Vendor	Alternate Vendor Part Number	Atheros Part Number
1	7	C28, C37, C78, C120, C142, C143, C145	CAP,0402	DO NOT STUFF				031-XXXXX-000
2	1	F9	Filter					160-XXXXX-000
3	1	Q13	TRA,SOT-23	DO NOT STUFF				130-XXXXX-000
4	22	R3, R4, R8, R9, R55, R57, R61, R65, R82, R83, R85, R86, R102, R103, R110, R111, R117, R121, R122, R123, R124, R125	RES,0402	DO NOT STUFF				051-XXXXX-000