

T2 RF module BOM

M1 system RF: MT6166+AP6684(GSM Quad Band +WCDMA850+W900+W1900+W2100)

number	inventory code	Material specification describes	sum	location name
1	1001001300	resistance, 0 ohm, $\pm 5\%$, 1/20W, 0201, KOA, YAGEO	12	R655 R657 R673 R603 R604 R626 C627 R627 C651 L621 C646 R659
2	9001000370	resistance, 27 ohm, $\pm 1\%$, 1/20W, 0201, YAGEO	2	R629 R630
3	9001000380	resistance, 36 ohm, $\pm 1\%$, 1/20W, 0201, YAGEO	1	R632
4	9001000390	resistance, 51 ohm, $\pm 1\%$, 1/20W, 0201, KOA, YAGEO	1	R632
5	1001001450	resistance, 1K, $\pm 5\%$, 1/20W, 0201, KOA, YAGEO	4	R602 R606 R608 R615
6	1001001380	resistance, 2K, $\pm 5\%$, 1/20W, 0201, KOA, YAGEO	1	R600
7	1001001330	resistance, 10K, $\pm 5\%$, 1/20W, 0201, KOA, YAGEO	1	R612
8	9001000250	resistance, 24K, $\pm 5\%$, 1/20W, 0201, KOA, YAGEO	1	R613
9	1001001310	resistance, 100K, $\pm 5\%$, 1/20W, 0201, KOA, YAGEO	1	R654
10	9002000260	capacitance, 3.6pF, $\pm 0.1\text{pF}$, 50V, COG, 0201, TDK, MURATA	1	C652
11	1002002060	Capacitor, 10pF, $\pm 0.5\text{pF}$, 50V, COG, 0201, Murata, Tdk, Taiyo	4	C662 C664 C648 C657
	1002002110	Capacitor, 10pF, $\pm 0.5\text{pF}$, 25V, COG, 0201, Murata, Tdk, Taiyo		
12	9002000190	capacitance, 18pF, $\pm 5\%$, 50V, COG, 0201, TDK, MURATA	3	C606 C617 C641
	9002000130	capacitance, 18pF, $\pm 5\%$, 50V, COG, 0201, EYANG		
13	1002001430	capacitance, 22pF, $\pm 15\%$, 25V, COG, 0201, TDK, MURATA	7	C600 C667 C611 C612 C604 C613 C614
14	1002001440	capacitance, 33pF, $\pm 15\%$, 25V, COG, 0201, TDK, MURATA	1	C687
15	1002001450	capacitance, 39pF, $\pm 5\%$, 50V, COG, 0201, TDK, MURATA	1	C609
16	9002000200	capacitance, 56pF, $\pm 5\%$, 50V, COG, 0201, TDK, MURATA	4	C607 C694 C647 C689
	9002000140	capacitance, 56pF, $\pm 5\%$, 50V, COG, 0201, EYANG		
17	1002001710	capacitance, 220pF, $\pm 10\%$, 25V, X7R, 0201, TDK, MURATA	3	C608 C691 C695
18	9002000420	capacitance, 1.5nF, $\pm 10\%$, 16V, X5R, 0201, TDK, MURATA	2	C732 C726
19	1002001390	capacitance, 100nF, $\pm 20\%$, 6.3V, X5R, 0201, TDK, MURATA	3	C615 C692 C696
20	9002000220	capacitance, 470nF, $\pm 20\%$, 6.3V, X5R, 0201, TDK, MURATA	6	C669 C674 C675 C676 C677 C684
	9002000160	capacitance, 470nF, $\pm 20\%$, 6.3V, X5R, 0201, EYANG, Walsin		
21	1002001980	capacitance, 1uF, $\pm 20\%$, 6.3V, X5R, 0201, TDK, MURATA	4	C685 C682 C735 C720
22	1002000070	capacitance, 1uF, $\pm 10\%$, 6.3V, X5R, 0402, TDK, MURATA, Walsin	1	C625
	9002000010	capacitance, 1uF, $\pm 10\%$, 6.3V, X5R, 0402, TAIYO		
23	1002001490	capacitance, 10uF, $\pm 20\%$, 6.3V, X5R, 0603, TDK, MURATA	4	C693 C728 C697 C719
	9002000040	capacitance, 10uF, $\pm 20\%$, 6.3V, X5R, 0603, TAIYO		
	9002000310	capacitance, 10uF, $\pm 20\%$, 6.3V, X5R, 0603, EYANG		

24	1002002010	capacitance, 22uF, $\pm 20\%$, 6.3V, X5R, 0603, TAIYO YUDEN	1	C637
	1002002140	capacitance, 22uF $\pm 10\%$ 6.3V X5R 0603, TDK, MURATA		
	1002002011	capacitance, 22uF, $\pm 20\%$, 6.3V, X5R, 0603, TDK		
	1002002012	capacitance, 22uF, $\pm 20\%$, 6.3V, X5R, 0603, MURATA		
25	1003002870	inductance, 1.0nH, ± 0.1 nH, 0201, MGCI0603H1N0ST-L, MICROGATE	2	C618 C660
26	9003000420	inductance, 1.5nH, ± 0.1 nH, 0201, MURATA	2	L623 L626
27	1003001040	inductance, 2.0nH, ± 0.1 nH, 0201, MURATA	2	L622 L630
28	1003001170	inductance, 2.2nH, ± 0.1 nH, 0201, LQP03TN2N2B04D, Murata	1	L618
	1003002300	inductance, 2.2nH, ± 0.3 nH, 0201, MGCI0603H2N2ST-LF, Microgate		
28	9003000430	inductance, 3.3nH, ± 0.3 nH, 0201, MGCI0603H3N3ST-L, MICROGATE		
29	9003000440	inductance, 3.6nH, ± 0.3 nH, 0201, MGCI0603H3N6ST-L, MICROGATE	3	L601 C655 L609
30	1003002230	inductance, 3.9nH, ± 0.3 nH, 0201, TDK , MURATA	1	L617
31	9003000560	inductance, 4.3nH, ± 0.3 nH, 0201, MGCI0603H4N3ST-L, MICROGATE	4	L685 L686 C658 C661
32	9003000450	inductance, 5.1nH, ± 0.3 nH, 0201, MURATA	1	L625
33	1003001210	inductance, 5.6nH, ± 0.3 nH, 0201, MGCI0603H5N6ST-L, MICROGATE	1	L627
34	1003001090	inductance, 9.1nH, $\pm 3\%$, 0201, MGCI0603H9N1JT-L, MICROGATE	1	C659
35	1003001220	inductance, 12nH, $\pm 5\%$, 0201, MURATA	2	L600 L619
	1003001290	inductance, 12nH, $\pm 3\%$, 0201, MURATA		
36	9003000740	inductance, 15nH, $\pm 5\%$, 0201, HK 0603 15NJ-T, TAIYO	1	L632
37	1003001110	inductance, 18nH, $\pm 3\%$, 0201, , MURATA	1	L612
38	9003000770	inductance, 22nH, ± 0.2 nH, 0201, HK 0603 22NJ-T, TAIYO	1	L610
39	1003001140	inductance, 39nH, $\pm 5\%$, 0201, MURATA	1	L616
	1003002290	inductance, 39nH, $\pm 5\%$, 0201, MGCI0603H39NJT-LF, Microgate		
40	9008001040	crystal;26MHz; ± 10 ppm;2.5*2.0*1.0mm, 509774, RAKON	1	X600
	9008001041	crystal;26MHz; ± 10 ppm;2.5*2.0*1.0mm, EXS00A-CS05258, NDK		
	9011000130	crystal, TMS, 26MHz, 7pF, 2.5x2.0x1.0mm, XTL5A1100-M118-056, xihua		
41	1010001220	filter, Balun, (GSM850/900/1800/1900), RFBLN2012090BM6T16, Walsin	1	Z600
	9010000090	Balun, 2-in-1, 10pin, 2.0X1.2mm, LFB21914MDZ3D384, Murata		
	9010000091	Balun, 2-in-1, 10pin, 2.0X1.2mm, BD2012-20L0820V3T/LF, Acx		
	9010000092	Balun, 2-in-1, 10pin, 2.0X1.2mm, DLU-2012-12GS1-B3, Maglayers		
42	1008007170	IC, RF transicever, GGE/WCDMA/TDSCDMA, MT6166V, MTK	1	U600
43	9008002430	IC, TXM, Quad band GSM/EDGE+TD-SCDMA, 6 TRx, 5.5x5.3x0.89mm, AP6690,	1	U601
44	9008001440	IC, PA, W-Band I, 10pin, 3x3x1.0, AP7101, AIROHA	1	U605
	9008001441	IC, PA, W-Band I, 10pin, 3x3x1.0, AP7101A, AIROHA		
45	9008001670	IC, PA, W-Band II, 10pin, 3x3x1.0, AP7102, AIROHA	1	U608
	9008001671	IC, PA, W-Band II, 10pin, 3x3x1.0, AP7102A, AIROHA		

46	9008001470	IC, PA, W-Band V, 10pin, 3x3x1.0, AP7105, AIROHA	1	U606
	9008001471	IC, PA, W-Band V, 10pin, 3x3x1.0, AP7105A, AIROHA		
47	9008001450	IC, PA, W-Band VIII, 10pin, 3x3x1.0, AP7108, AIROHA	1	U609
	9008001451	IC, PA, W-Band VIII, 10pin, 3x3x1.0, AP7108A, AIROHA		
48	9010000320	filter, SAW Filter, 1920/1980MHz, 2.0x1.6x0.6mm, D6PE2G140P3AW,	1	U611
49	9010000370	duplexer, 1850/1910MHZ, 2.0x1.6x0.55mm, SD20-1880R9UBB1, Kyocera	1	U610
	9010000380	duplexer, 1850/1910MHZ, 2.0x1.6x0.6mm, D6PE1G960P3BY, TAIYO		
50	9010000290	filter, SAW Filter, 824/849MHz, 2.0x1.6x0.6mm, SAYFH836MCA0F00, MURAT	1	U614
	9010000360	filter, SAW Filter, 824/849MHz, 2.0x1.6x0.6mm, FAR-D5PE-881M50-P3EZ,		
	9010000390	duplexer, 824/849MHZ, 2.0x1.6x0.55mm, SD20-0836R9UBM1, Kyocera		
51	9010000330	filter, SAW Filter, 880/915MHz, 2.0x1.6x0.6mm, D5PE942M5P3GT, TAIYO	1	U612
52	9012003500	RF SwitchSPDT, XM0860SH-DL0601TMP, 1.0mmX1.0mmX0.4mm, murata	1	U615
53	9012002880	MINI RF, loss : ≤ 0.1 dB, 2.5*2.5*1.5mm, 818000163, dianlian	1	J604
54	9012000940	antenna shrapnel, 3.5*1.0*2.5mm, P01-AB001F140, hongrida	3	ANT600 ANT601 ANT602

M2 system RF: MT6166+AP6684(GSM Quad Band+WCDMA850+W900+W1900+W2100)

number	inventory code	Material specification describes	sum	location name
56	1001001300	resistance, 0 ohm, $\pm 5\%$, 1/20W, 0201, KOA, YAGEO	13	R664 R666 R674 R614 R623 R633 C628 R634 C714 C710 L653 C663 R663
57	9001000370	resistance, 27 ohm, $\pm 1\%$, 1/20W, 0201, YAGEO	2	R636 R637
58	9001000380	resistance, 36 ohm, $\pm 1\%$, 1/20W, 0201, YAGEO	1	R638
59	9001000390	resistance, 51 ohm, $\pm 1\%$, 1/20W, 0201, KOA, YAGEO	1	R691
60	1001001450	resistance, 1K, $\pm 5\%$, 1/20W, 0201, KOA, YAGEO	4	R607 R617 R611 R616
61	1001001380	resistance, 2K, $\pm 5\%$, 1/20W, 0201, KOA, YAGEO	1	R601
62	1001001330	resistance, 10K, $\pm 5\%$, 1/20W, 0201, KOA, YAGEO	1	R618
63	9001000250	resistance, 24K, $\pm 5\%$, 1/20W, 0201, KOA, YAGEO	1	R622
64	1001001310	resistance, 100K, $\pm 5\%$, 1/20W, 0201, KOA, YAGEO	1	R665
65	1002001570	capacitance, 1pF, ± 0.1 pF, 25V, COG, 0201, TDK, MURATA,	1	C624
66	1002002060	Capacitor, 10pF, ± 0.5 pF, 50V, COG, 0201, Murata, Tdk, Taiyo	4	C723 C716 C708 C709
	1002002110	Capacitor, 10pF, ± 0.5 pF, 25V, COG, 0201, Murata, Tdk, Taiyo		
67	9002000190	capacitance, 18pF, $\pm 5\%$, 50V, COG, 0201, TDK, MURATA	3	C632 C752 C643
	9002000130	capacitance, 18pF, $\pm 5\%$, 50V, COG, 0201, EYANG		
68	1002001430	capacitance, 22pF, $\pm 15\%$, 25V, COG, 0201, TDK, MURATA	7	C601 C605 C620 C750 C634 C636 C751

69	1002001440	capacitance, 33pF, $\pm 15\%$, 25V, C0G, 0201, TDK, MURATA	2	C747 C683
70	9002000200	capacitance, 56pF, $\pm 5\%$, 50V, COG, 0201, TDK, MURATA	4	C622 C746 C680 C702
	9002000140	capacitance, 56pF, $\pm 5\%$, 50V, COG, 0201, EYANG		
71	1002001710	capacitance, 220pF, $\pm 10\%$, 25V, X7R, 0201, TDK, MURATA	3	C645 C725 C743
72	9002000420	capacitance, 1.5nF, $\pm 10\%$, 16V, X5R, 0201, TDK, MURATA	2	C736 C729
73	1002001390	capacitance, 100nF, $\pm 20\%$, 6.3V, X5R, 0201, TDK, MURATA	3	C635 C724 C731
74	9002000220	capacitance, 470nF, $\pm 20\%$, 6.3V, X5R, 0201, TDK, MURATA	6	C748 C688 C707 C700 C749 C753
	9002000160	capacitance, 470nF, $\pm 20\%$, 6.3V, X5R, 0201, EYANG, Walsin		
75	1002001980	capacitance, 1uF, $\pm 20\%$, 6.3V, X5R, 0201, TDK, MURATA	4	C704 C705 C739 C721
76	1002000070	capacitance, 1uF, $\pm 10\%$, 6.3V, X5R, 0402, TDK, MURATA, Walsin	1	C629
	9002000010	capacitance, 1uF, $\pm 10\%$, 6.3V, X5R, 0402, TAIYO		
77	1002001490	capacitance, 10uF, $\pm 20\%$, 6.3V, X5R, 0603, TDK, MURATA	4	C718 C737 C717 C722
	9002000040	capacitance, 10uF, $\pm 20\%$, 6.3V, X5R, 0603, TAIYO		
	9002000310	capacitance, 10uF, $\pm 20\%$, 6.3V, X5R, 0603, EYANG		
78	1002002010	capacitance, 22uF, $\pm 20\%$, 6.3V, X5R, 0603, TAIYO YUDEN	1	C642
	1002002140	capacitance, 22uF $\pm 10\%$ 6.3V X5R 0603, TDK, MURATA		
	1002002011	capacitance, 22uF, $\pm 20\%$, 6.3V, X5R, 0603, TDK		
	1002002012	capacitance, 22uF, $\pm 20\%$, 6.3V, X5R, 0603, MURATA		
79	1003002870	inductance, 1.0nH, ± 0.1 nH, 0201, MGCI0603H1N0ST-L, MICROGATE	1	C626
80	9003000420	inductance, 1.5nH, ± 0.1 nH, 0201, MURATA	2	L636 L656
81	1003001040	inductance, 2.0nH, ± 0.1 nH, 0201, MURATA	2	L639 L646
82	1003001170	inductance, 2.2nH, ± 0.1 nH, 0201, LQP03TN2N2B04D, Murata	1	L637
	1003002300	inductance, 2.2nH, ± 0.3 nH, 0201, MGCI0603H2N2ST-LF, Microgate		
83	9003000430	inductance, 3.3nH, ± 0.3 nH, 0201, MGCI0603H3N3ST-L, MICROGATE	2	C623 L604
84	9003000440	inductance, 3.6nH, ± 0.3 nH, 0201, MGCI0603H3N6ST-L, MICROGATE	2	L641 C712
85	1003002230	inductance, 3.9nH, ± 0.3 nH, 0201, TDK, MURATA	1	L647
86	9003000560	inductance, 4.3nH, ± 0.3 nH, 0201, MGCI0603H4N3ST-L, MICROGATE	4	L687 L688 C679 C673
87	9003000450	inductance, 5.1nH, ± 0.3 nH, 0201, MURATA	1	L645
88	1003001210	inductance, 5.6nH, ± 0.3 nH, 0201, MGCI0603H5N6ST-L, MICROGATE	1	L649
89	1003001090	inductance, 9.1nH, $\pm 3\%$, 0201, MGCI0603H9N1JT-L, MICROGATE	1	C686
90	1003001220	inductance, 12nH, $\pm 5\%$, 0201, MURATA	2	L603 L655
	1003001290	inductance, 12nH, $\pm 3\%$, 0201, MURATA		
91	9003000740	inductance, 15nH, $\pm 5\%$, 0201, HK 0603 15NJ-T, TAIYO	1	L654
92	1003001110	inductance, 18nH, $\pm 3\%$, 0201, , MURATA	1	L615
93	1003001140	inductance, 39nH, $\pm 5\%$, 0201, MURATA	1	L657
	1003002290	inductance, 39nH, $\pm 5\%$, 0201, MGCI0603H39NJT-LF, Microgate		

94	9008001040	crystal;26MHz;+/-10ppm;2.5*2.0*1.0mm, 509774, RAKON	1	X601
	9008001041	crystal;26MHz;+/-10ppm;2.5*2.0*1.0mm, EXS00A-CS05258, NDK		
	9011000130	crystal, TMS, 26MHz, 7pF, 2.5x2.0x1.0mm, XTL5A1100-M118-056, xihua		
95	1010001220	filter, Balun, (GSM850/900/1800/1900), RFBLN2012090BM6T16, Walsin	1	Z601
	9010000090	Balun, 2-in-1, 10pin, 2.0X1.2mm, LFB21914MDZ3D384, Murata		
	9010000091	Balun, 2-in-1, 10pin, 2.0X1.2mm, BD2012-20L0820V3T/LF, Acx		
	9010000092	Balun, 2-in-1, 10pin, 2.0X1.2mm, DLU-2012-12GS1-B3, Maglayers		
96	1008007170	IC, RF transicever, GGE/WCDMA/TDSCDMA, MT6166V, MTK	1	U603
97	9008002430	IC, TXM, Quad band GSM/EDGE+TD-SCDMA, 6 TRx, 5.5x5.3x0.89mm, AP6690,	1	U602
98	9008001440	IC, PA, W-Band I, 10pin, 3x3x1.0, AP7101, AIROHA	1	U607
	9008001441	IC, PA, W-Band I, 10pin, 3x3x1.0, AP7101A, AIROHA		
99	9008001670	IC, PA, W-Band II, 10pin, 3x3x1.0, AP7102, AIROHA	1	U619
	9008001671	IC, PA, W-Band II, 10pin, 3x3x1.0, AP7102A, AIROHA		
100	9008001470	IC, PA, W-Band V, 10pin, 3x3x1.0, AP7105, AIROHA	1	U622
	9008001471	IC, PA, W-Band V, 10pin, 3x3x1.0, AP7105A, AIROHA		
101	9008001450	IC, PA, W-Band VIII, 10pin, 3x3x1.0, AP7108, AIROHA	1	U616
	9008001451	IC, PA, W-Band VIII, 10pin, 3x3x1.0, AP7108A, AIROHA		
102	9010000320	filter, SAW Filter, 1920/1980MHz, 2.0x1.6x0.6mm, D6PE2G140P3AW,	1	U620
103	9010000370	duplexer, 1850/1910MHZ, 2.0×1.6×0.55mm, SD20-1880R9UBB1, Kyocera	1	U618
	9010000380	duplexer, 1850/1910MHZ, 2.0x1.6x0.6mm, D6PE1G960P3BY, TAIYO		
104	9010000290	filter, SAW Filter, 824/849MHz, 2.0x1.6x0.6mm, SAYFH836MCAOF00, MURAT	1	U621
	9010000360	filter, SAW Filter, 824/849MHz, 2.0x1.6x0.6mm, FAR-D5PE-881M50-P3EZ,		
	9010000390	duplexer, 824/849MHZ, 2.0×1.6×0.55mm, SD20-0836R9UBM1, Kyocera		
105	9010000330	filter, SAW Filter, 880/915MHz, 2.0x1.6x0.6mm, D5PE942M5P3GT, TAIYO	1	U613
106	9012003500	RF SwitchSPDT, XM0860SH-DL0601TMP, 1.0mmX1.0mmX0.4mm, murata	1	U617
107	9012002880	MINI RF, loss : ≤0.1dB, 2.5*2.5*1.5mm, 818000163, dianlian	1	J603
108	9012000940	antenna shrapnel, 3.5*1.0*2.5mm, P01-AB001F140, hongrida	3	ANT603 ANT604 ANT605