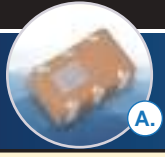


Integrated Passive Components (IPCs)

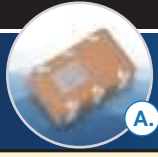
Baluns RF Ceramic Chips

Part Number	Frequency (MHz)	Balanced (Ohms)	Insertion Loss (Max)	Phase Difference	Amplitude Difference (max)
0430BL15A0100001E	400-460	100 (1:2)	1.0	180°±10°	2
0433BM15A0001001E	430-435	Chipset Specific	1.9	180°±10°	0
0433BM41A0019001E	424-444	Chipset Specific Impedance matched to SiLabs Si4455 and Si4460 Chipsets	0.9	180°±10°	0
0465BL15B0100001E	460-470	100 (1:2)	1.0	180°±10°2	
0845BL05A0100001T	729-960	100	0.85 max. (0.95 max. @85°C)	180°±10°	5
0850BM14E0016001T	770-928	Chipset Specific	1.3	180°±17°	3.5
0868BM15C0001001E	863-873	Chipset Specific	2.1	180°±15°	0
0896BL14B0050001T	851-941	50 (1:1)	1.5	180°±10°	1
0896BM15A0001001E	863-928	Chipset Specific	1.5	180°±10°	1.5
0896BM15E0025001E	863,2400 928,2500	Chipset Specific Conj. match to Atmel's AT86RF215, AT86RF215M, AT86RF215IQ chipsets	1.25	180°±10°	2
0900BL15A0100001E	900-1000	100 (1:2)	1.2	180°±10°	2
0900BL15C0050001E	800-1000	50 (1:1)	1.2	180°±10°	2
0900BL15D0050001E	800-1000	50 (1:1)	1.2	180°±10°	2
0900BL18B0100001E	800-1000	100 (1:4)	1.0	180°±10°	2
0900BL18B0200001E	800-1000	200 (1:4)	1.0	180°±10°	2
0900PC15F0030001E	862-928	Chipset Specific Impedance matched to ADF7023, ADF7023-J, ADF7024	1.8	180°±15°	0
0900PC15J0013001E	868-928	Chipset Specific	2.0	180°±15°	0
0915BM15A0001001E	902-928	Chipset Specific	1.0	180°±15°	0
0917BL18B0100001E	889-945	100 (1:2)	1.0	180°±10°	2
10R1BL14A0100001T	9900-11000	100	1.5	180°±8	0.8
1350BL15B0075001E	400-2300	75 (1:1.5)	1.4	180°±10°	2
1600BL15B0050001E	1500-1700	50 (1:1)	1.0	180°±10°	2
1600BL15B0100001E	1500-1700	100 (1:2)	1.0	180°±10°	2
1720BL15A0100001E	625-2815	100 (1:2)	1.5	180°±10°	1
1720BL15A0100002E	625-2815	100	1.5	180°±10°	1
1720BL15B0050001E	625-2815	50 (1:1)	1.5	180°±10°	1
1720BL15B0050002E	625-2815	50 (1:1)	1.5	180°±10°	1
1720BL15B0200001E	625-2815	200 (1:4)	1.5	180°±10°	1
1850BL15B0050001E	1700-2000	50 (1:1)	1.0	180°±10°	2
1850BL15B0100001E	1700-2000	100 (1:2)	1.0	180°±10°	2
1850BL15B0200001E	1700-2000	200 (1:4)	1.0	180°±10°	2



Integrated Passive Components (IPCs)
Baluns RF Ceramic Chips

Part Number	Frequency (MHz)	Balanced (Ohms)	Insertion Loss (Max)	Phase Difference	Amplitude Difference (max)
2100BL15A0100001E	2100-2200	100 (1:2)	1.0	180°±10°	2
2450BL05A0100001T	2300-2690	100 (1:2)	0.55	180°±10°	3
2450BL07A0050001T	2400-2500	50 (1:1)	1.0	180°±10°	2
2450BL07A0100001T	2400-2500	100 (1:2)	1.3	180°±10°	2
2450BL14C0050001T	2400-2500	50 (1:1)	1.2	180°±10°	2
2450BL14C0100001T	2400-250	100 (1:2)	1.2	180°±10°	2
2450BL14C0200001T	2400-2500	200 (1:4)	1.3	180°±10°	2
2450BL15B0050001E	2400-2500	50 (1:1)	1.0	180°±10°	2
2450BL15B0100001E	2400-2500	100 (1:2)	1.0	180°±10°	2
2450BL15B0200001E	2400-2500	200 (1:4)	1.0	180°±10°	2
2450BL15K0100001E	2400-2500	100 (1:2)	1.0	180°±10°	2
2450BM08B0003001T	2400-2500	Chipset Specific Impedance matched to Nordic Semi nRF51822-CEAA, nRF51822-CDAB, nRF51822-CFAC, nRF51422-CEAA, nRF51422-CDAB, & nRF51422-CFAC chipsets	1.0	180°±10°	0
2450BM14A0002001T	2400-2500	Chipset Specific Impedance match to nRF24L01 nRF24L01+ nRF24LE1 nRF24LU1 nRF24AP2 nRF8001 Chipsets	2.0	160°±15°	0
2450BM14E0003001T	2400-2500	Chipset Specific Impedance matched to Nordic Semi nRF51822-QFAA and nRF51422-QFAA chipsets	0.9	150°±15°	0
2450BM14E0003002T	2400-2500	Chipset Specific Impedance matched to Nordic Semi : NRF51824-QFAA, NRF51824-QFAA-R, nRF51824-QFAA-R7, & nRF51824-QFAA-T chipsets	0.9	150°±15°	0
2450BM14E0007001T	2400-2500	Chipset Specific Conjugate match to ADI ADF7241 & ADF7242	1.5	180°±10°	0
2450BM14G0011001T	2400-2500	Chipset Specific	1.5	180°±10°	0
2450BM14G0011002T	2400-2500	Chipset Specific	1.5	180°±10°	2
2450BM15A0001001E	2400-2500	Chipset Specific	1.0	180°±15°	0
2450BM15A0002001E	2400-2500	Chipset Specific	1.5	180°±10°	0
2450BM15A0015001E	2400-2500	Chipset Specific Impedance match to AT86RF232, AT86RF233, ATmega64/128/256RFR2, Zigbit 256RFR2, Zigbit RF233, ZigBit RF233+FEM, Extension RF233, USB RF233, SAM R21E, and SAM R21G	1.5	180°±10°	0



Integrated Passive Components (IPCs)
Baluns RF Ceramic Chips

Part Number	Frequency (MHz)	Balanced (Ohms)	Insertion Loss (Max)	Phase Difference	Amplitude Difference (max)
2450BM15B0002001E	2400-2500	Chipset Specific	1.5	180°±15°	0
2450BM15B0003001E	2400-2500	Chipset Specific	2.2	180°±12°	0
2450BM15B0009001E	2400-2500	Chipset Specific Impedance match to ZIC2410 chipset	1.5	180°±10°	0
2450BM15B0026001E	2400-2500	Chipset Specific Impedance matched for NXP KW40, KW30, and KW20 Chipsets	1.0	180°±10°	0
2450FB15K0002001E	2400-2500	Chipset Specific Impedance match to CSR BC03/BC04 (16-j40)	3.0	180°±10°	0
2450FB15K0005001E	2400-2500	Chipset Specific Impedance match to CSR BC03/04/05	3.5	180°±10°	0
2450FB15L0001001E	2400-2500	Chipset Specific Impedance match to AT86R	1.5	180°±10°	0
2450FB15M0001001E	2400-2500	Chipset Specific Impedance match to MTK and BC05 chipsets	3.0	180°±15°	0
2500BL14M0050001T	2300-2700	50 (1:1)	1.2	180°±15°	1.5
2500BL14M0100001T	2300-2700	100 (1:2)	1.2	180°±15°	2
3400BL15A0100001E	1.8-5.0	100	0.81 typ./ 1.0 max.	180°± 8 typ. / 180°± 12	0.8 typ. / 1.3 max.
3600BL14M0050001T	3300-3900	50 (1:1)	1.2	180°±15°	2
3600BL14M0100001T	3300-3900	50 (1:2)	1.2	180°±15°	2
3700BL15B0100001E	3400-4000	100 (1:2)	1.0	180°±20°	1
3700BL15B0100002E	3400-4000	100 (1:2)	1.0	180°±20°	1
3700BL15B0200001E	3400-4000	200 (1:4)	1.2	180°±20°	1
3700BL15C0050001E	3400-4000	50 (1:1)	1.2	180°±25°	2
4400BL15A0050001E	2800-6000	50 (1:1)	1.5	180°±12°	2
4400BL15A0100001E	2800-6000	100 (1:2)	1.5	180°±12°	2
5400BL14A0050001T	4800-5950	50	1.1	180±10°	0
5400BL14B0100001T	4900-5875	100 (1:2)	1.0	180°±10°	2
5400BL15B0100001T	4900-5900	50 (1:1)	1.0	180°±10°	2
5400BL15B0100001E	4900-5900	100 (1:2)	1.0	180°±10°	2
5400BL15B0200001E	4900-5875	200 (1:4)	1.0	180°±10°	2
5400BL15K0050001E	4900-5875	50 (1:1)	1.2	180°±10°	2
5425BL07A0200001T	4900-5950	200 (1:4)	1.2	180°±15°	2
5500BL15U0100001E	3000-8000	100 (1:2)	1.8	180°±20°	2
6750BL14A0050001T	4900-8500	50 (1:1)	0.7 typ. (1.5 max.)	180°±13°	1.5
6750BL14A0100001T	4900-8500	100 (1:2)	0.7 typ. (1.5 max.)	180°±13°	1.5



Integrated Passive Components (IPCs)

Baluns - Filter Combinations RF Ceramic Chips

Part Number	Frequency (MHz)	Balanced (Ohms Ω)	Insertion Loss (Max)	Attenuation (dB min.)	Phase Difference	Case Size
0783FB15A0100001E	779-787	50/100	1.5	30dB min. @ 2Fo 30dB min. @ 3Fo 30dB min. @ 4Fo	180° ± 15	0805
0896FB15A0100001E	863-928	50/100	1.5	30 dB min. @ 1726~1856 MHz 30 dB min. @ 2589~2784 MHz 30 dB min. @ 3452~3712 MHz	180° ± 15	0805
0900PC15A0036001E	862-928 2400-2500	50	1.8 typ (2.0 max.) 1.3 typ (1.6 max.)	17 min. @ 1736-1856 40 min. @ 2604-2784 20 min. @ 4800-5000 40 min. @ 7200-7500	180° ± 15	0805
2345FB39A0050001E	2300-2390	50/50	3.2	30 min. @ 766~797 MHz 20 min. @ 1532~1594 MHz 12 min. @ 2110~2170 MHz 29 min. @ 3066~3186 MHz 28 min. @ 3833~3983 MHz	180° ± 10	1008
2450FB15A0100001E	2400-2500	50/50	1.5	20 min. @ 4800~5000 MHz 20 min. @ 7200~7500 MHz 20 min. @ 4800~5000 MHz	180° ± 10	0805
2450FB15A0050001E	2400-2500	50/50	1.5	28 min. @ 2 x Fo 20 min. @ 3 x Fo	180° ± 10	0805
2450FB15C0050001E	2400-2500	50/50	1.5	28 min. @ 2 x Fo 20 min. @ 3 x Fo	180° ± 10	0805
2450FB39B0100001E	2400-2500	50/100	2.0	35 min. @ 880~960 MHz 30 min. @ 1710~1910 MHz 30 min. @ 4800~5000 MHz 25 min. @ 7200~7500 MHz	180° ± 10	1008
2500FB16A0400001E	2300-2690	50 Ω + 2.4nH	3.8	15 min. @ DC~800 MHz 35 min. @ 800~960 MHz 15 min. @ 960~1700 MHz 30 min. @ 1700~1900 MHz 25 min. @ 1900~1980 MHz	180° ± 10°	0806
3500FB39A0050001E	3400-3600	50/50	2.9	35 min. @ 680~720MHz 35 min. @ 1088~1152MHz 45 min. @ 2040~2160MHz 32 min. @ 2720~2880MHz 15 min. @ 4080~4320MHz	180° ± 12	1008
5400FB15A0100001E	4900-5875	50/50	2.9	30 min. @ 3500MHz	180° ± 15	0805