



RF Ceramic Components



Ceramic Chip Antennas

Frequency (MHz)	Case Size	Gain (dBi) Peak / Average	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Johanson Technology Part No.
				1	10	100		Qty.	Pricing	
880 – 960	50‡	-0.7 / -2.6	712-1002-1-ND	2.03	1.76	1.63	712-1002-2-ND	1,000	810.81	0920AT50A080E
2,400 – 2,500	18-4	0.5 / -0.5	712-1005-1-ND	.38	.33	.31	712-1005-2-ND	3,000	151.35/M	2450AT18A100E
2,400 – 2,500	18-4	0.5 / -0.5	712-1006-1-ND	.38	.33	.31	712-1006-2-ND	3,000	151.35/M	2450AT18B100E
2,400 – 2,500	42-1	0 / -1.0	712-1007-1-ND	.45	.40	.37	712-1007-2-ND	2,000	180.18/M	2450AT42A100E
2,400 – 2,500	42-2	0 / -1.5	712-1008-1-ND	.52	.45	.42	712-1008-2-ND	2,000	207.21/M	2450AT42B100E
2,400 – 2,500	43-1	2.0 / 0.5	712-1009-1-ND	.67	.59	.55	712-1009-2-ND	1,000	270.27	2450AT43A100E
2,400 – 2,500	43-2	1.0 / -0.5	712-1010-1-ND	.54	.47	.44	712-1010-2-ND	1,000	216.22	2450AT43B100TE
2,400 – 2,500	44-1	1.3 / 0	712-1011-1-ND	.74	.64	.59	—	—	—	2450AT44A100E
2,400 – 2,500	45-1	3.0 / 1.0	712-1012-1-ND	.86	.75	.69	712-1012-2-ND	1,000	342.34	2450AT45A100E
4,900 – 5,900	18-4	2.0 / -2.5	712-1016-1-ND	.38	.33	.31	712-1016-2-ND	3,000	151.35/M	5400AT18A1000E
858 – 878	43-1	-1.0 / -4.0	712-1399-1-ND	.63	.55	.51	712-1399-2-ND	1,000	252.25	0868AT43A0020E
3,100 – 10,300	51	1.5 / -3.5	712-1402-1-ND§	2.07	1.80	1.66	712-1402-2-ND	1,000	828.83	3100AT51A7200E
2,300 – 2,700	44	2.5 / 0.5	712-1403-1-ND§	.72	.63	.58	712-1403-2-ND	1,000	288.29	2500AT44M0400E

‡ See Digi-Key website for detailed specifications.

Ceramic Chip Baluns and Balun Filters

Frequency (MHz)	Case Size	Impedance Unbalanced / Balanced (Ω)	Phase Difference	Amplitude Difference Maximum (dB)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Johanson Technology Part No.
						1	10	100		Qty.	Pricing	
863 – 928	15-1A	50 / —	180° ±10°	1.5	712-1474-1-ND	.59	.52	.48	712-1474-2-ND	4,000	237.84/M	0896BM15A0001E
2,300 – 2,700	14-1	50 / 50	180° ±15°	1.5	712-1046-1-ND§	.58	.51	.47	712-1046-2-ND	4,000	234.24/M	2500BL14M050T
3,300 – 3,900	14-1	50 / 50	180° ±15°	1.5	712-1048-1-ND§	.67	.59	.55	712-1048-2-ND	4,000	270.27/M	3600BL14M050T
3,300 – 3,900	14-1	50 / 100	180° ±15°	1.5	712-1049-1-ND§	.67	.59	.55	712-1049-2-ND	4,000	270.27/M	3600BL14M100T
3,400 – 4,000	15-1B	50 / 50	180° ±25°	2.0	712-1050-1-ND	.41	.36	.33	712-1050-2-ND	4,000	162.53/M	3700BL15B050E
3,400 – 4,000	15-1	50 / 200	180° ±20°	1.0	712-1052-1-ND	.45	.40	.37	712-1052-2-ND	4,000	180.18/M	3700BL15B200E
3,100 – 4,800	14-1	50 / 100	180° ±20°	1.5	712-1053-1-ND§	.67	.59	.55	712-1053-2-ND	4,000	270.27/M	4000BL14U100T
4,900 – 5,875	14-1	50 / 100	180° ±10°	1.5	712-1057-1-ND	.67	.59	.55	712-1057-2-ND	4,000	270.27/M	5400BL14B100T
4,900 – 5,900	15-1B	50 / 50	180° ±10°	2.0	712-1058-1-ND	.41	.36	.33	712-1058-2-ND	4,000	162.17/M	5400BL15B050E
4,900 – 5,900	15-1B	50 / 100	180° ±10°	2.0	712-1059-1-ND	.45	.40	.37	712-1059-2-ND	4,000	180.18/M	5400BL15B100E
4,900 – 5,875	15-1A	50 / 50	180° ±10°	2.0	712-1061-1-ND	.33	.29	.26	712-1061-2-ND	4,000	129.73/M	5400BL15K050E
5,150 – 5,875	15-1B	50 / 100	180° ±10°	2.0	712-1062-1-ND	.29	.25	.23	—	—	—	5512BL15B100E
<b>Balun Filters</b>												
863 – 928	15-1A	50 / 100	180° ±15°	2.0	712-1473-1-ND	.58	.51	.47	712-1473-2-ND	4,000	234.24/M	0896FB15A0100E
2,400 – 2,500	15-1A	50 / 50	180° ±10°	1.0	712-1065-1-ND	.90	.79	.73	712-1065-2-ND	4,000	360.36/M	2450FB15A050E
2,400 – 2,500	15‡	50 / —	180° ±10°	1.5	712-1066-1-ND	.82	.71	.66	—	—	—	2450FB15K0001E
2,400 – 2,500	39-2	50 / 100	180° ±10°	1.0	712-1068-1-ND	.54	.47	.44	712-1068-2-ND	3,000	216.22/M	2450FB39B100E
2,300 – 2,390	39-2B	50 / 50	180° ±10°	1.5	712-1404-1-ND§	.81	.71	.65	712-1404-2-ND	3,000	324.33/M	2345FB39A0050E
2,500 – 2,690	39-2B	50 / 50	180° ±10°	1.5	712-1405-1-ND§	.81	.71	.65	712-1405-2-ND	3,000	324.33/M	2595FB39A0050E
3,400 – 3,600	39-2B	50 / 50	180° ±12°	1.5	712-1406-1-ND§	.81	.71	.65	712-1406-2-ND	3,000	324.33/M	3500FB39A0050E

‡ See Digi-Key website for detailed specifications.

Baluns 2.45GHz WiFi/Bluetooth

Frequency (MHz)	Case Size	Impedance Unbalanced / Balanced (Ω)	Phase Difference	Amplitude Difference Maximum (dB)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 4,000	Johanson Technology Part No.
						1	10	100			
2,400 – 2,500	14-1	50 / 50	180° ±10°	2.0	712-1037-1-ND	.31	.28	.26	712-1037-2-ND	126.13/M	2450BL14C050T
2,400 – 2,500	14-1	50 / 200	180° ±10°	2.0	712-1039-1-ND	.31	.28	.26	712-1039-2-ND	126.13/M	2450BL14C200
2,400 – 2,500	15-1B	50 / 50	180° ±10°	2.0	712-1040-1-ND	.20	.18	.16	712-1040-2-ND	79.28/M	2450BL15B050E
2,400 – 2,500	15-1B	50 / 100	180° ±10°	2.0	712-1041-1-ND	.20	.18	.16	712-1041-2-ND	79.28/M	2450BL15B100E
2,400 – 2,500	15-1B	50 / 200	180° ±10°	2.0	712-1043-1-ND	.20	.18	.16	712-1043-2-ND	79.28/M	2450BL15B200E
2,400 – 2,500	15-1B	50 / 100	180° ±10°	2.0	712-1045-1-ND	.45	.40	.37	712-1045-2-ND	180.18/M	2450BL15K100E

Baluns GSM / DCS / PCS / CDMA

Frequency (MHz)	Case Size	Impedance Unbalanced / Balanced (Ω)	Phase Difference	Amplitude Difference Maximum (dB)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Johanson Technology Part No.
						1	10	100		Qty.	Pricing	
800 – 1,000	15-1D	50 / 50	180° ±10°	2.0	712-1022-1-ND	.45	.40	.37	712-1022-2-ND	4,000	180.18/M	0900BL15C050E
800 – 1,000	18-1	50 / 100	180° ±10°	2.0	712-1023-1-ND	.30	.26	.24	712-1023-2-ND	3,000	117.12/M	0900BL18B100E
800 – 1,000	18-1	50 / 200	180° ±10°	2.0	712-1024-1-ND	.30	.26	.24	712-1024-2-ND	3,000	117.12/M	0900BL18B200E
1,700 – 2,000	15-1	50 / 50	180° ±10°	2.0	712-1029-1-ND	.41	.36	.33	—	—	—	1850BL15A050E
1,700 – 2,000	15-1B	50 / 50	180° ±10°	2.0	712-1030-1-ND	.45	.40	.37	712-1030-2-ND	4,000	180.18/M	1850BL15B050E
1,700 – 2,000	15-1B	50 / 200	180° ±10°	2.0	712-1032-1-ND	.40	.35	.32	712-1032-2-ND	4,000	158.56/M	1850BL15B200E

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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