

**Baluns WiMAX and WCDMA**

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			
1,500 – 1,700	15-1B	50 / 50	180° ±10°	2.0	712-1026-1-ND	.45	.40	.37	712-1026-2-ND	180.18/M	1600BL15B050E
1,500 – 1,700	15-1B	50 / 100	180° ±10°	2.0	712-1027-1-ND	.45	.40	.37	712-1027-2-ND	180.18/M	1600BL15B100E

**BandPass Filters**

**B**

Frequency (MHz)	Case Size	Insertion Loss Maximum (dB)	Return Loss Minimum (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	
1,710 – 1,910	07-1	2.0	9.5	712-1070-1-ND	.45	.40	.37	712-1070-2-ND	10,000	180.18/M	1810BP07B200E
2,400 – 2,500	07‡	2.5	9.5	712-1076-1-ND	.42	.38	.35	712-1076-2-ND	10,000	171.18/M	2450BP07A0100E
2,400 – 2,500	14‡	2.0	9.5	712-1077-1-ND	.83	.72	.67	—	—	—	2450BP14C0100T
2,400 – 2,500	15-3	2.2	9.5	712-1078-1-ND	.41	.36	.33	712-1078-2-ND	4,000	162.17/M	2450BP15B100E
2,400 – 2,500	15-3C	1.5	9.5	712-1081-1-ND	.26	.23	.21	712-1081-2-ND	4,000	102.71/M	2450BP15E0100E
2,450 ±50	18-3A	2.5	9.5	712-1084-1-ND	.58	.51	.47	712-1084-2-ND	3,000	234.24/M	2450BP18C100CE
2,450 ±50	39-1	2.5	9.5	712-1087-1-ND	.45	.40	.37	712-1087-2-ND	3,000	180.18/M	2450BP39C100AE
2,400 – 2,500	39-1	1.5	9.5	712-1089-1-ND	.40	.35	.32	712-1089-2-ND	3,000	158.56/M	2450BP39C100CE
2,400 – 2,500	39-1	2.5	9.5	712-1091-1-ND	.36	.32	.29	712-1091-2-ND	3,000	144.15/M	2450BP39D100BE
2,400 – 2,500	39-1	1.2	9.5	712-1092-1-ND	.50	.43	.40	712-1092-2-ND	3,000	198.20/M	2450BP39D100CE
2,450 ±50	41-1	2.3	9.5	712-1095-1-ND	1.27	1.11	1.03	—	—	—	2450BP41D100AE
2,300 – 2,700	15‡	2.0	9.5	712-1097-1-ND‡	.72	.63	.58	712-1097-2-ND	4,000	288.29/M	2500BP15M400E
2,500 – 2,686	44-1	2.0	9.5	712-1098-1-ND	1.68	1.46	1.35	—	—	—	2593BP44B186E
3,300 – 3,900	15-3B	1.8	9.5	712-1099-1-ND‡	.72	.63	.58	712-1099-2-ND	4,000	288.29/M	3600BP15M600E
3,100 – 4,900	15-2B	2.3	8.5	712-1100-1-ND‡	.58	.51	.47	712-1100-2-ND	4,000	234.24/M	4000BP15U1800E
5,150 – 5,570	15-3C	5.0	9.5	712-1102-1-ND	.71	.62	.58	—	—	—	5450BP15T600E
5,150 – 5,875	15-3B	1.5	9.5	712-1105-1-ND	.38	.34	.31	712-1105-2-ND	4,000	153.16/M	5515BP15B725E
5,150 – 5,875	15-3B	2.5	9.5	712-1109-1-ND	.38	.34	.31	712-1109-2-ND	4,000	153.16/M	5515BP15C725E
5,150 – 5,875	15-1B	2.8	9.5	712-1106-1-ND	.45	.40	.37	712-1106-2-ND	4,000	180.18/M	5515BP15B730E
4,900 – 5,875	15-3B	1.5	9.5	712-1107-1-ND	.31	.28	.26	712-1107-2-ND	4,000	126.13/M	5515BP15B975E
4,900 – 5,875	15-3B	2.0	8.5	712-1136-1-ND	.31	.28	.26	712-1136-2-ND	4,000	126.13/M	5515BP15C975E
4,900 – 5,920	15-3B	1.5	9.5	712-1108-1-ND	.31	.28	.26	712-1108-2-ND	4,000	126.13/M	5515BP15C1020E
3,300 – 3,700	14-1	1.8	12	712-1533-1-ND	.43	.38	.35	712-1533-2-ND	4,000	172.98/M	3600BP14M0600T

‡ See Digi-Key website for detailed specifications.

**EMI Filters**

No. of Sections	Case Size	Cutoff Frequency (MHz)	Attenuation Minimum (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			
4	18-4	200	10 @ 1500 – 3000MHz	712-1111-1-ND	.67	.59	.54	—	—	0200FA18A0200E
	15‡	400	20 @ 800 – 1000MHz	712-1112-1-ND	.48	.42	.39	712-1112-2-ND	192.20/M	0400FA15A0400E
	18-4	400	10 @ 1500 – 2500MHz	712-1113-1-ND	.67	.59	.54	—	—	0400FA18A0400E

‡ See Digi-Key website for detailed specifications.

**Low Pass Filters**

Frequency (MHz)	Case Size	Insertion Loss Maximum (dB)	Return Loss Minimum (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	
0 – 500	15-1A	0.7	9.5	712-1117-1-ND	.82	.71	.66	712-1117-2-ND	4,000	326.73/M	0500LP15A500E
824 – 960	07-1	0.7	9.5	712-1119-1-ND	.91	.80	.74	712-1119-2-ND	10,000	365.17/M	0892LP07A136E
880 – 915	18-2	0.6	10.9	712-1120-1-ND	.94	.82	.76	712-1120-2-ND	3,000	378.38/M	0898LP18A035E
1,710 – 1,785	18-2	0.6	10.9	712-1123-1-ND	.86	.75	.69	712-1123-2-ND	3,000	342.35/M	1748LP18A075E
1,710 – 1,910	14-1	0.6	11.7	712-1126-1-ND	.81	.71	.65	712-1126-2-ND	4,000	324.33/M	1810LP14A200T
2,400 – 2,483	18-2	0.6	10.9	712-1128-1-ND	.75	.66	.61	—	—	—	2442LP18A083E
2,400 – 2,500	14-1	0.5	14.0	712-1129-1-ND	.36	.32	.29	712-1129-2-ND	4,000	144.15/M	2450LP14A100T
2,400 – 2,500	14-1	0.5	14.0	712-1130-1-ND	.36	.32	.29	712-1130-2-ND	4,000	144.15/M	2450LP14B100T
2,400 – 2,500	15‡	0.5	10.9	712-1133-1-ND	.74	.65	.60	—	—	—	2450LP15B050E
3,400 – 3,700	14-1	0.65	14.0	712-1134-1-ND‡	.38	.34	.31	712-1134-2-ND	4,000	153.16/M	3550LP14A300T
5,150 – 5,875	15-2A	0.6	10.9	712-1135-1-ND	.41	.36	.33	712-1135-2-ND	4,000	162.17/M	5515LP15A730E

‡ See Digi-Key website for detailed specifications.

**Directional Couplers**

Frequency (MHz)	Case Size	Insertion Loss 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			
<b>Coupler with Low Pass Filter</b>									
880 – 915	15-1C	0.7	712-1141-1-ND	.54	.47	.44	712-1141-2-ND	216.22/M	0898CF15A035E
860 – 960	15-2B	1.2	712-1534-1-ND	1.34	1.17	1.08	712-1534-2-ND	535.74/M	0910CF15B0100E
<b>Coupler, 3dB Hybrid</b>									
880 – 915	14-1	0.28	712-1149-1-ND	.67	.59	.55	712-1149-2-ND	270.27/M	0898CP14A035T

(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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