

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		Johanson Technology Part No.
						1	10	100		Qty.	Pricing	
1,400 - 1,500	15-1B	50 / 200	180° ±10°	2.0	712-1025-1-ND	.37	.32	.30	712-1025-2-ND	4,000	147.38/M	1450BL15A200E
1,500 - 1,700	15-1B	50 / 50	180° ±10°	2.0	712-1026-1-ND	.37	.32	.30	712-1026-2-ND	4,000	147.38/M	1600BL15B050E
1,500 - 1,700	15-1B	50 / 100	180° ±10°	2.0	712-1027-1-ND	.37	.32	.30	712-1027-2-ND	4,000	147.38/M	1600BL15B100E
2,000 - 2,200	18-1	50 / 200	180° ±10°	2.0	712-1033-1-ND	.37	.32	.30	712-1033-2-ND	3,000	147.38/M	2100BL18B200E

BandPass 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	
1,710 - 1,910	07-1	2.0	9.5	712-1070-1-ND	.28	.25	.23	712-1070-2-ND	10,000	109.63/M	1810BP07B200E
1,710 - 1,910	07-1	2.0	9.5	712-1071-1-ND	.30	.26	.24	712-1071-2-ND	10,000	114.71/M	1810BP07C200E
1,893 - 1,920	18-3B	1.5	9.5	712-1073-1-ND	.85	.74	.68	712-1073-2-ND	3,000	339.05/M	1906BP18A027E
1,893 - 1,920	39†	2.8	9.5	712-1075-1-ND	.65	.57	.52	712-1075-2-ND	3,000	259.19/M	1906BP39B027E
1,893 - 1,920	18†	3.0	9.5	712-1074-1-ND	.85	.74	.68	712-1074-2-ND	3,000	339.05/M	1906BP18C027E
2,400 - 2,500	07†	2.5	9.5	712-1076-1-ND	.76	.66	.61	712-1076-2-ND	10,000	290.40/M	2450BP07A0100E
2,400 - 2,500	14†	2.0	9.5	712-1077-1-ND	.76	.66	.61	712-1077-2-ND	4,000	300.57/M	2450BP14C0100T
2,400 - 2,500	15-3	2.2	9.5	712-1078-1-ND	.36	.32	.29	712-1078-2-ND	4,000	143.75/M	2450BP15B100E
2,400 - 2,500	15-3B	2.8	9.5	712-1079-1-ND	.54	.47	.44	712-1079-2-ND	4,000	215.63/M	2450BP15C100E
2,400 - 2,500	15-1F	2.6	9.5	712-1080-1-ND	.68	.59	.55	712-1080-2-ND	4,000	270.08/M	2450BP15D100E
2,400 - 2,500	15-3C	1.5	9.5	712-1081-1-ND	.83	.72	.67	712-1081-2-ND	4,000	331.06/M	2450BP15E0100E
2,450 ±50	18-2	2.0	9.5	712-1083-1-ND	.83	.72	.67	712-1083-2-ND	3,000	330.33/M	2450BP18C100E
2,450 ±50	18-3A	2.5	9.5	712-1084-1-ND	.48	.42	.39	712-1084-2-ND	3,000	191.67/M	2450BP18C100E
2,400 - 2,500	18-3B	2.0	9.5	712-1085-1-ND	.83	.72	.67	712-1085-2-ND	3,000	330.33/M	2450BP18C100E
2,400 - 2,500	18-3C	2.3	9.5	712-1086-1-ND	.83	.72	.67	712-1086-2-ND	3,000	330.33/M	2450BP18D100E
2,450 ±50	39-1	2.5	9.5	712-1087-1-ND	.34	.30	.28	712-1087-2-ND	3,000	135.77/M	2450BP39C100E
2,450 ±50	39-1	1.8	9.5	712-1088-1-ND	.36	.32	.29	712-1088-2-ND	3,000	143.75/M	2450BP39C100E
2,400 - 2,500	39-1	1.5	9.5	712-1089-1-ND	.33	.29	.26	712-1089-2-ND	3,000	129.96/M	2450BP39C100E
2,400 - 2,500	39-1	2.2	9.5	712-1090-1-ND	.37	.32	.30	712-1090-2-ND	3,000	147.38/M	2450BP39C100E
2,400 - 2,500	39-1	2.5	9.5	712-1091-1-ND	.38	.33	.31	712-1091-2-ND	3,000	150.29/M	2450BP39D100E
2,400 - 2,500	39-1	1.2	9.5	712-1092-1-ND	.65	.57	.52	712-1092-2-ND	3,000	259.19/M	2450BP39D100E
2,400 - 2,500	39-1	2.6	8.9	712-1093-1-ND	.65	.56	.52	712-1093-2-ND	3,000	258.46/M	2450BP39E100E
2,450 ±50	41-1	2.3	9.5	712-1095-1-ND	.92	.80	.74	712-1095-2-ND	2,000	368.08/M	2450BP41D100E
2,450 ±50	41-1	1.3	9.5	712-1096-1-ND	.90	.78	.72	712-1096-2-ND	2,000	359.37/M	2450BP41D100E
2,450 ±50	41-1	2.5	9.5	712-1094-1-ND	.73	.64	.59	712-1094-2-ND	2,000	294.76/M	2450BP41D100E
2,300 - 2,700	15†	2.0	9.5	712-1097-1-ND†	.90	.78	.72	712-1097-2-ND†	4,000	359.37/M	2500BP15M400E
2,500 - 2,686	44-1	2.0	9.5	712-1098-1-ND	1.29	1.12	1.04	712-1098-2-ND	2,000	515.46/M	2593BP44B186E
3,300 - 3,900	15-3B	1.8	9.5	712-1099-1-ND†	.65	.57	.52	712-1099-2-ND†	4,000	259.19/M	3600BP15M600E
3,100 - 4,900	15-2B	2.3	8.5	712-1100-1-ND†	.72	.63	.58	712-1100-2-ND†	4,000	287.50/M	4000BP15U1800E
3,100 - 7,160	18-4	1.6	9.5	712-1101-1-ND†	.85	.74	.68	712-1101-2-ND†	3,000	339.05/M	5130BP18U4060E
5,150 - 5,570	15-3C	5.0	9.5	712-1102-1-ND	.65	.56	.52	712-1102-2-ND	4,000	258.46/M	5450BP15T600E
5,150 - 5,825	15-1B	1.8	9.5	712-1103-1-ND	.65	.57	.52	712-1103-2-ND	4,000	259.19/M	5487BP15B675E
5,150 - 5,825	15-1B	1.8	9.5	712-1104-1-ND	.65	.57	.52	712-1104-2-ND	4,000	259.19/M	5487BP15C675E
5,150 - 5,875	15-3B	1.5	9.5	712-1105-1-ND	.36	.32	.29	712-1105-2-ND	4,000	143.75/M	5515BP15B725E
5,150 - 5,875	15-3B	2.5	9.5	712-1109-1-ND	.31	.28	.26	712-1109-2-ND	4,000	125.60/M	5515BP15C725E
5,150 - 5,875	15-1B	2.8	9.5	712-1106-1-ND	.65	.57	.52	712-1106-2-ND	4,000	259.19/M	5515BP15B730E
4,900 - 5,875	15-3B	1.5	9.5	712-1107-1-ND	.36	.32	.29	712-1107-2-ND	4,000	143.75/M	5515BP15B975E
4,900 - 5,875	15-3B	2.0	8.5	712-1136-1-ND	.36	.32	.29	712-1136-2-ND	4,000	143.75/M	5515BP15C975E
4,900 - 5,920	15-3B	1.5	9.5	712-1108-1-ND	.36	.32	.29	712-1108-2-ND	4,000	143.75/M	5515BP15C1020E

† See Digi-Key website for detailed specifications.

Ceramic Chip Diplexers



Frequency (MHz)	Case Size	Attenuation Low Band (dB)	Attenuation High Band (dB)	Return Loss (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			
2,450 - 5,400	15-1D	0.70	19	9.5	712-1110-1-ND	.72	.63	.58	712-1110-2-ND	287.50/M	2450DP15F5400E

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		Johanson Technology Part No.
					1	10	100		Qty.	Pricing	
4	18-4	200	10 @ 1500 - 3000MHz	712-1111-1-ND	.61	.53	.49	712-1111-2-ND	3,000	244.67/M	0200FA18A0200E
	15†	400	20 @ 800 - 1000MHz	712-1112-1-ND	.37	.32	.30	712-1112-2-ND	4,000	147.38/M	0400FA15A0400E
	18-4	400	10 @ 1500 - 2500MHz	712-1113-1-ND	.61	.53	.49	712-1113-2-ND	3,000	244.67/M	0400FA18A0400E

† See Digi-Key website for detailed specifications.

High and 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	
High Pass Filters											
2,450 - 2,500	14-1B	1.3	14	712-1115-1-ND	.57	.49	.46	712-1115-2-ND	4,000	225.79/M	2450HP14A100T
2,450 - 2,500	15†	0.85	9.5	712-1116-1-ND	.62	.55	.51	712-1116-2-ND	4,000	250.47/M	2450HP15A100E
Low Pass Filters											
0 - 500	15-1A	0.7	9.5	712-1117-1-ND	.66	.58	.54	712-1117-2-ND	4,000	264.99/M	0500LP15A500E
824 - 915	14-1	0.6	10.9	712-1118-1-ND	.66	.58	.54	712-1118-2-ND	4,000	264.99/M	0869LP14A090T
824 - 960	07-1	0.7	9.5	712-1119-1-ND	.83	.72	.67	712-1119-2-ND	10,000	320.17/M	0892LP07A136E
880 - 915	18-2	0.6	10.9	712-1120-1-ND	.85	.74	.68	712-1120-2-ND	3,000	339.05/M	0898LP18A035E
902 - 928	15-2A	0.65	9.5	712-1121-1-ND	.65	.56	.52	712-1121-2-ND	4,000	258.46/M	0915LP15A029E
902 - 928	15-2A	0.5	14.0	712-1122-1-ND	.66	.58	.54	712-1122-2-ND	4,000	264.99/M	0915LP15B029E
1,710 - 1,785	18-2	0.6	10.9	712-1123-1-ND	.70	.61	.56	712-1123-2-ND	3,000	280.24/M	1748LP18A075E
1,710 - 1,910	07-1	0.5	10.9	712-1124-1-ND	.55	.48	.45	712-1124-2-ND	10,000	213.45/M	1810LP07A200E
1,710 - 1,910	07-1	0.6	9.5	712-1125-1-ND	.37	.32	.30	712-1125-2-ND	10,000	142.30/M	1810LP07B200E
1,710 - 1,910	14-1	0.6	11.7	712-1126-1-ND	.66	.58	.54	712-1126-2-ND	4,000	264.99/M	1810LP14A200T
1,850 - 1,910	14-1	0.6	11.7	712-1127-1-ND	.66	.58	.54	712-1127-2-ND	4,000	264.99/M	1880LP14A060T
2,400 - 2,483	18-2	0.6	10.9	712-1128-1-ND	.68	.60	.55	712-1128-2-ND	3,000	272.98/M	2442LP18A083E
2,400 - 2,500	14-1	0.5	14.0	712-1129-1-ND	.66	.58	.54	712-1129-2-ND	4,000	264.99/M	2450LP14A100T
2,400 - 2,500	14-1	0.5	14.0	712-1130-1-ND	.65	.57	.52	712-1130-2-ND	4,000	259.19/M	2450LP14B100T
2,400 - 2,500	14-1	0.6	11.7	712-1131-1-ND	.65	.56	.52	712-1131-2-ND	4,000	258.46/M	2450LP14C100T
2,400 - 2,500	14-1	0.5	10.0	712-1132-1-ND	.33	.29	.27	712-1132-2-ND	4,000	132.86/M	2450LP15A050E
2,400 - 2,500	15†	0.5	10.9	712-1133-1-ND	.68	.59	.55	712-1133-2-ND	4,000	270.08/M	2450LP15B050E
3,400 - 3,700	14-1	0.6	14.0	712-1134-1-ND†	.37	.32	.30	712-1134-2-ND†	4,000	147.38/M	3550LP14A300T
5,150 - 5,875	15-2A	0.65	10.9	712-1135-1-ND	.33	.29	.27	712-113			