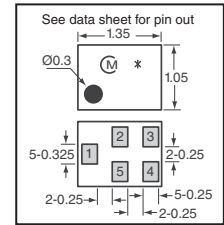


Saw Filters

Specifications: • Nominal Input/Output Impedance: 50Ω

Dimensions in mm

Center Frequency (GHz)	Insertion Loss Typical (dB)	Ripple (dB)	Input Signal Level (mW)	Operating Temperature Range	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Murata Part No.
						1	10	50		Qty.	Pricing	
2.450	1.7	0.4	—	-30°C ~ 85°C	490-5234-1-ND	1.70	1.42	1.28	490-5234-2-ND	4,000	494.90/M	SAFEA2G45AC0F00R14
2.450	2.2	0.7	10	-30°C ~ 85°C	490-5235-1-ND	1.20	1.01	.91	490-5235-2-ND	4,000	350.75/M	SAFEA2G45AB0F00R14
2.450	2.0	0.7	10	-30°C ~ 85°C	490-5236-1-ND	1.20	1.01	.91	490-5236-2-ND	4,000	350.75/M	SAFEA2G45FA0F00R14
2.442	2.0	0.7	10	-30°C ~ 85°C	490-5237-1-ND	1.79	1.50	1.35	490-5237-2-ND	4,000	522.93/M	SAFEA2G44AA0F00R14
2.345	2.2	0.6	10	-30°C ~ 85°C	490-5238-1-ND	1.28	1.07	.96	490-5238-2-ND	4,000	373.18/M	SAFEA2G34FB0F00R14
0.915	1.8	0.3	31.6	-30°C ~ 85°C	490-5019-1-ND	4.69	3.92	3.53	490-5019-2-ND	2,000	1369.37/M	SAFEB915MAL0F00R12



B

BandPass Filter

Specifications: • Operating Temperature Range: -40°C ~ 85°C • Power Capacity: 500mW

Dimensions in mm

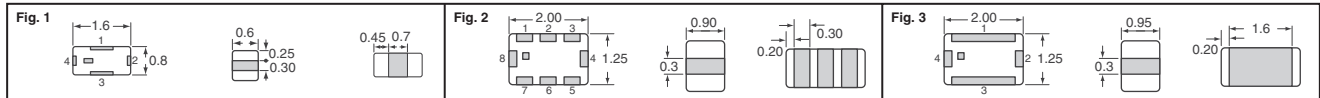


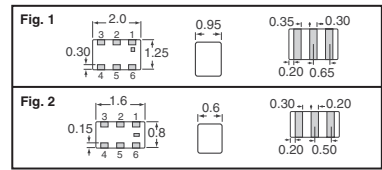
Fig.	Center Frequency (GHz)	Operating Frequency (GHz)	Insertion Loss @ 25°C (dB)	Ripple (dB)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 4,000	Murata Part No.
						1	10	50			
1	2.45	2.4 ~ 2.5	1.8	0.7	490-4743-1-ND	.42	.36	.32	490-4743-2-ND	123.33/M	LFB182G45SG9B740
2	2.45	2.4 ~ 2.5	3.5	—	490-5020-1-ND	.47	.40	.36	490-5020-2-ND	136.94/M	LFB212G45BA1A220
3	2.45	2.4 ~ 2.5	1.5	0.5	490-5021-1-ND	.45	.38	.34	490-5021-2-ND	130.53/M	LFB212G45SG8A127
			2.6	1.8	490-5022-1-ND	.45	.38	.34	490-5022-2-ND	130.53/M	LFB212G45SG8A192

RF Balun Transformers

Chip type SMD baluns constructed with copper conductor and ceramic material. Ideal for high-frequency applications. Small-size and low-loss baluns can be customized for the balance impedance of 100Ω ~ 200Ω. Specifications: • Operating Temperature Range: -40°C ~ 85°C • Power Capacity: 0.5W

Dimensions in mm

Fig.	Operating Frequency (GHz)	Insertion Loss @ 25°C (dB)	Balance Impedance Diff-Nom. (Ω)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 4,000	Murata Part No.
					1	10	50			
1	2.3 ~ 2.5	1.0	200	490-4744-1-ND	.34	.28	.25	490-4744-2-ND	96.90/M	LDB212G4020C-001
		0.8	50	490-4745-1-ND	.34	.28	.25	490-4745-2-ND	96.90/M	LDB212G4005C-001
2	2.4 ~ 2.5	1.0	50	490-4746-1-ND	.31	.26	.24	490-4746-2-ND	91.29/M	LDB182G4505C-110
		1.0	100	490-5023-1-ND	.31	.26	.24	490-5023-2-ND	91.29/M	LDB182G4510C-110
		1.3	200	490-4747-1-ND	.31	.26	.24	490-4747-2-ND	91.29/M	LDB182G4520C-110
		1.3	200	490-4747-1-ND	.31	.26	.24	490-4747-2-ND	91.29/M	LDB182G4520C-110



PLL/Frequency Synthesizer

PLL Type	Modulus	Operating Frequency (MHz)	Auxiliary Operating Frequency (MHz)	Normalized Phase Noise	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel	
						1	25	100		Qty.	Pricing
RF/IF Dual	Integer Integer	3,000	800	-219 dBc/Hz	LMX2430TM-ND†	3.41	2.74	2.50	LMX2433SLEXTR-ND	—	—
		3,600	1,700	-219 dBc/Hz	LMX2433SLEXCT-ND	4.30	3.52	3.16		2,500	4766.76
Delta-Sigma RF/IF Dual	Fractional-N Fractional-N Fractional-N Fractional-N Fractional-N	7,500	3,000	-210 dBc/Hz	LMX2487ESQCT-ND	6.26	5.20	4.73	LMX2487ESQTR-ND	1,000	3189.59
		3,000	800	-209 dBc/Hz	LMX2485ESQCT-ND	5.93	4.85	4.36	LMX2485ESQTR-ND	1,000	2769.17
		3,000	800	-209 dBc/Hz	LMX2485SQCT-ND	5.36	4.38	3.93	LMX2485SQTR-ND	1,000	2500.10
		4,000	3,000	-209 dBc/Hz	LMX2486SQCT-ND	5.39	4.48	4.07	LMX2486SQTR-ND	1,000	2745.94
		6,000	3,000	-209 dBc/Hz	LMX2487SQCT-ND	5.81	4.83	4.39	LMX2487SQTR-ND	1,000	2962.16

† RoHS Compliant ‡ Tube

PLL with VCO

Features: • PLL+VCO • Integrated Loop Filter • Integrated Tank Circuit • PLL: Delta-Sigma

Wireless Standard	Integrated VCOS	Frequency Range (MHz)		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
		Low Band	High Band		1	25	100		Qty.	Pricing
Fractional-N										
3G,2G	1	749.5 ~ 755	1499 ~ 1510	LMX2531LQ1500ECT-ND	11.05	9.37	8.65	LMX2531LQ1500ETR-ND	250	1861.86
3G,2G	1	765 ~ 818	1530 ~ 1636	LMX2531LQ1570ECT-ND	11.05	9.37	8.65	LMX2531LQ1570ETR-ND	250	1861.86
3G,2G	1	795 ~ 850	1590 ~ 1700	LMX2531LQ1650ECT-ND	11.05	9.37	8.65	LMX2531LQ1650ETR-ND	250	1861.86
3G,2G	1	831 ~ 885	1662 ~ 1770	LMX2531LQ1700ECT-ND	11.05	9.37	8.65	LMX2531LQ1700ETR-ND	250	1861.86
3G,2G	1	880 ~ 933	1760 ~ 1866	LMX2531LQ1742CT-ND	11.05	9.37	8.65	LMX2531LQ1742TR-ND	250	1861.86
3G,2G	1	863 ~ 920	1726 ~ 1840	LMX2531LQ1778ECT-ND	11.05	9.37	8.65	LMX2531LQ1778ETR-ND	250	1861.86
3G,2G	1	917 ~ 1014	1834 ~ 2028	LMX2531LQ1910ECT-ND	11.05	9.37	8.65	LMX2531LQ1910ETR-ND	250	1861.86
3G,2G	1	952 ~ 1137	1904 ~ 2274	LMX2531LQ2080ECT-ND	8.75	7.42	6.85	LMX2531LQ2080ETR-ND	250	1474.07
3G,2G	1	1089 ~ 1200	2178 ~ 2400	LMX2531LQ2265ECT-ND	11.05	9.37	8.65	LMX2531LQ2265ETR-ND	250	1861.86
3G,2G	1	1168 ~ 1395	2336 ~ 2790	LMX2531LQ2570ECT-ND	11.05	9.37	8.65	LMX2531LQ2570ETR-ND	250	1861.86
3G,2G	1	533 ~ 592	1106 ~ 1184	LMX2531LQE1146ECT-ND	11.05	9.37	8.65	LMX2531LQE1146ETR-ND	250	1861.86
3G,2G	1	592 ~ 634	1184 ~ 1268	LMX2531LQE1226ECT-ND	11.05	9.37	8.65	LMX2531LQE1226ETR-ND	250	1861.86
3G,2G	1	634 ~ 680	1268 ~ 1360	LMX2531LQE1312ECT-ND	11.05	9.37	8.65	LMX2531LQE1312ETR-ND	250	1861.86
3G,2G	1	680 ~ 735	1360 ~ 1470	LMX2531LQE1415ECT-ND	11.05	9.37	8.65	LMX2531LQE1415ETR-ND	250	1861.86
3G,2G	1	725 ~ 790	1450 ~ 1580	LMX2531LQE1515ECT-ND	11.05	9.37	8.65	LMX2531LQE1515ETR-ND	250	1861.86
3G,2G	1	1355 ~ 1462	2710 ~ 2925	LMX2531LQE2820ECT-ND	11.05	9.37	8.65	LMX2531LQE2820ETR-ND	250	1861.86
3G,2G	1	1455 ~ 1566	2910 ~ 3132	LMX2531LQE3010ECT-ND	11.05	9.37	8.65	LMX2531LQE3010ETR-ND	250	1861.86
UMTS, LTE, WiMax	1	—	1990 ~ 2240	LMX2541SQE2060ECT-ND	16.62	14.09	13.01	LMX2541SQE2060ETR-ND	250	2799.00
UMTS, LTE, WiMax	1	—	2200 ~ 2530	LMX2541SQE2380ECT-ND	16.62	14.09	13.01	LMX2541SQE2380ETR-ND	250	2799.00
UMTS, LTE, WiMax	1	—	2490 ~ 2865	LMX2541SQE2690ECT-ND	16.62	14.09	13.01	LMX2541SQE2690ETR-ND	250	2799.00
UMTS, LTE, WiMax	1	—	2810 ~ 3230	LMX2541SQE3030ECT-ND	16.62	14.09	13.01	LMX2541SQE3030ETR-ND	250	2799.00
UMTS, LTE, WiMax	1	—	3130 ~ 3600	LMX2541SQE3320ECT-ND	16.62	14.09	13.01	LMX2541SQE3320ETR-ND	250	2799.00
UMTS, LTE, WiMax	1	—	3480 ~ 4000	LMX2541SQE3740ECT-ND	16.62	14.09	13.01	LMX2541SQE3740ETR-ND	250	2799.00

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