

# Frequency Multiplier (Doublers)

# KSX2-722+

## Typical Performance Data

Frequency (MHz)				RF IN = 9dBm			
				Conversion Loss (dB)	Harmonic Output* (-dBc)		
X1 Output	X2 Output	X3 Output	X4 Output	X2 Output	X1 Output	X3 Output	X4 Output
1300.00	2600.00	3900.00	5200.00	11.60	28.79	31.75	15.79
1350.00	2700.00	4050.00	5400.00	11.38	29.27	31.65	16.13
1400.00	2800.00	4200.00	5600.00	11.03	29.23	31.10	17.09
1450.00	2900.00	4350.00	5800.00	10.65	28.58	29.01	18.05
1500.00	3000.00	4500.00	6000.00	10.59	28.18	28.06	17.91
1550.00	3100.00	4650.00	6200.00	10.70	27.28	27.53	17.04
1600.00	3200.00	4800.00	6400.00	10.78	26.04	27.23	15.64
1650.00	3300.00	4950.00	6600.00	10.64	24.72	26.68	14.60
1700.00	3400.00	5100.00	6800.00	10.63	23.99	26.54	14.66
1750.00	3500.00	5250.00	7000.00	10.65	23.24	26.46	15.33
1800.00	3600.00	5400.00	7200.00	10.95	22.82	25.72	15.46
1850.00	3700.00	5550.00	7400.00	10.98	22.56	25.42	15.98
1900.00	3800.00	5700.00	7600.00	10.71	22.28	25.82	16.84
1950.00	3900.00	5850.00	7800.00	10.47	21.89	26.94	19.49
2000.00	4000.00	6000.00	8000.00	10.60	21.81	26.33	21.54
2050.00	4100.00	6150.00	8200.00	10.66	21.81	24.65	23.29
2100.00	4200.00	6300.00	8400.00	10.90	22.39	23.40	23.61
2150.00	4300.00	6450.00	8600.00	10.82	22.91	23.28	24.59
2200.00	4400.00	6600.00	8800.00	10.93	23.43	24.65	25.09
2250.00	4500.00	6750.00	9000.00	11.12	23.53	27.13	26.08
2300.00	4600.00	6900.00	9200.00	11.51	22.64	28.85	26.95
2350.00	4700.00	7050.00	9400.00	11.78	21.99	29.88	27.14
2500.00	5000.00	7500.00	10000.00	12.45	23.65	35.38	24.52
2550.00	5100.00	7650.00	10200.00	12.91	24.22	36.72	21.95
2650.00	5300.00	7950.00	10600.00	12.98	22.02	42.75	20.13
2800.00	5600.00	8400.00	11200.00	13.03	20.38	28.07	22.02
2850.00	5700.00	8550.00	11400.00	12.97	20.90	26.89	24.21
2950.00	5900.00	8850.00	11800.00	12.87	19.51	25.80	26.24
3000.00	6000.00	9000.00	12000.00	12.60	19.74	25.77	25.91
3100.00	6200.00	9300.00	12400.00	12.07	20.01	27.64	27.21
3150.00	6300.00	9450.00	12600.00	12.15	19.23	28.84	29.00
3300.00	6600.00	9900.00	13200.00	11.49	18.28	26.58	33.62
3350.00	6700.00	10050.00	13400.00	11.31	17.48	27.75	31.29
3400.00	6800.00	10200.00	13600.00	11.60	17.20	25.52	30.37
3450.00	6900.00	10350.00	13800.00	11.67	17.15	22.83	29.25
3500.00	7000.00	10500.00	14000.00	12.05	16.83	22.06	29.67
3550.00	7100.00	10650.00	14200.00	12.14	16.18	21.76	30.70
3600.00	7200.00	10800.00	14400.00	12.62	14.99	22.23	33.08

\*Harmonic Output below power level of X2 Output.



P.O. Box 350186, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4861 For detailed performance specs & shopping online see Mini-Circuits web site



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RF/MICROWAVE COMPONENTS

REV. X1  
KSX2-722+  
8/26/2008  
Page 1 of 2

# Frequency Multiplier (Doublers)

# KSX2-722+

## Typical Performance Data

Frequency (MHz)				RF IN = 13dBm			
				Conversion Loss (dB)	Harmonic Output* (-dBc)		
X1 Output	X2 Output	X3 Output	X4 Output	X2 Output	X1 Output	X3 Output	X4 Output
1300.00	2600.00	3900.00	5200.00	11.81	25.85	40.12	18.18
1350.00	2700.00	4050.00	5400.00	11.38	25.74	38.45	20.43
1400.00	2800.00	4200.00	5600.00	11.41	25.50	36.18	20.66
1450.00	2900.00	4350.00	5800.00	11.57	24.37	33.64	19.07
1500.00	3000.00	4500.00	6000.00	11.99	23.60	31.62	16.45
1550.00	3100.00	4650.00	6200.00	12.03	21.96	28.95	14.71
1600.00	3200.00	4800.00	6400.00	11.86	22.04	30.35	14.31
1650.00	3300.00	4950.00	6600.00	11.35	22.06	31.49	16.47
1700.00	3400.00	5100.00	6800.00	11.33	21.73	30.95	18.73
1750.00	3500.00	5250.00	7000.00	11.42	20.54	29.65	19.36
1800.00	3600.00	5400.00	7200.00	12.04	19.39	27.03	17.20
1850.00	3700.00	5550.00	7400.00	12.33	18.46	25.68	16.15
1900.00	3800.00	5700.00	7600.00	11.82	18.30	24.83	16.21
1950.00	3900.00	5850.00	7800.00	11.62	18.99	24.26	18.80
2000.00	4000.00	6000.00	8000.00	11.63	19.73	23.41	22.24
2050.00	4100.00	6150.00	8200.00	12.08	19.21	22.22	25.84
2100.00	4200.00	6300.00	8400.00	12.67	18.60	20.83	25.78
2150.00	4300.00	6450.00	8600.00	12.66	17.83	19.64	23.15
2200.00	4400.00	6600.00	8800.00	12.53	17.76	20.86	21.81
2250.00	4500.00	6750.00	9000.00	12.60	17.35	23.50	20.43
2300.00	4600.00	6900.00	9200.00	12.85	16.65	26.40	21.69
2350.00	4700.00	7050.00	9400.00	13.27	16.75	24.30	25.89
2500.00	5000.00	7500.00	10000.00	13.45	17.44	20.16	29.37
2550.00	5100.00	7650.00	10200.00	13.17	16.72	22.89	27.25
2650.00	5300.00	7950.00	10600.00	13.38	14.61	31.38	25.50
2800.00	5600.00	8400.00	11200.00	13.14	14.15	37.74	32.87
2850.00	5700.00	8550.00	11400.00	13.05	15.59	35.96	29.50
2950.00	5900.00	8850.00	11800.00	12.59	12.22	39.70	28.96
3000.00	6000.00	9000.00	12000.00	12.28	12.30	35.77	27.06
3100.00	6200.00	9300.00	12400.00	11.51	14.25	35.27	27.92
3150.00	6300.00	9450.00	12600.00	11.39	14.97	35.31	31.07
3300.00	6600.00	9900.00	13200.00	11.38	13.22	28.39	33.63
3350.00	6700.00	10050.00	13400.00	11.43	14.50	24.94	33.47
3400.00	6800.00	10200.00	13600.00	11.85	13.55	23.54	32.22
3450.00	6900.00	10350.00	13800.00	12.14	13.48	20.15	29.68
3500.00	7000.00	10500.00	14000.00	12.41	13.49	18.00	29.25
3550.00	7100.00	10650.00	14200.00	12.81	13.84	16.60	30.62
3600.00	7200.00	10800.00	14400.00	13.20	14.15	17.28	34.13

\*Harmonic Output below power level of X2 Output.



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Page 2 of 2