

Frequency Multiplier (Doublers)

KSX2-14+

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
2500.00	5000.00	7500.00	10000.00	12.37	25.84	36.55	15.32
2550.00	5100.00	7650.00	10200.00	12.64	24.98	35.60	14.81
2600.00	5200.00	7800.00	10400.00	12.65	24.20	35.12	12.66
2650.00	5300.00	7950.00	10600.00	13.11	23.43	33.03	10.38
2700.00	5400.00	8100.00	10800.00	13.39	22.50	32.89	11.01
2750.00	5500.00	8250.00	11000.00	13.05	22.10	34.79	11.93
2800.00	5600.00	8400.00	11200.00	12.87	21.71	35.23	12.57
2850.00	5700.00	8550.00	11400.00	13.10	21.17	32.67	12.50
2900.00	5800.00	8700.00	11600.00	13.29	20.70	31.93	12.67
2950.00	5900.00	8850.00	11800.00	12.65	20.52	35.09	14.71
3000.00	6000.00	9000.00	12000.00	12.13	20.64	35.59	16.98
3050.00	6100.00	9150.00	12200.00	12.08	20.50	38.46	18.85
3100.00	6200.00	9300.00	12400.00	11.89	20.49	38.98	18.67
3150.00	6300.00	9450.00	12600.00	11.79	20.51	39.55	18.72
3200.00	6400.00	9600.00	12800.00	11.50	20.52	40.79	18.88
3250.00	6500.00	9750.00	13000.00	11.17	20.69	39.66	19.86
3300.00	6600.00	9900.00	13200.00	11.01	21.00	39.78	21.26
3350.00	6700.00	10050.00	13400.00	10.87	21.47	39.32	21.91
3400.00	6800.00	10200.00	13600.00	11.02	21.65	38.24	20.97
3450.00	6900.00	10350.00	13800.00	11.31	21.56	37.05	20.74
3500.00	7000.00	10500.00	14000.00	11.61	21.38	33.46	21.60
3550.00	7100.00	10650.00	14200.00	11.64	21.35	31.91	20.48
3600.00	7200.00	10800.00	14400.00	11.84	21.22	31.35	19.22
3650.00	7300.00	10950.00	14600.00	11.86	21.25	30.18	18.49
3700.00	7400.00	11100.00	14800.00	12.04	20.92	29.07	18.76
3750.00	7500.00	11250.00	15000.00	12.52	20.28	27.98	18.87
3800.00	7600.00	11400.00	15200.00	12.63	20.05	26.35	18.59
3850.00	7700.00	11550.00	15400.00	12.87	19.94	26.95	18.55
3900.00	7800.00	11700.00	15600.00	12.52	20.42	28.23	18.66
3950.00	7900.00	11850.00	15800.00	12.41	20.65	28.91	19.16
4000.00	8000.00	12000.00	16000.00	12.00	21.20	29.60	19.09
4100.00	8200.00	12300.00	16400.00	12.14	19.80	30.30	22.19
4200.00	8400.00	12600.00	16800.00	11.67	22.12	31.20	24.49
4300.00	8600.00	12900.00	17200.00	11.60	27.55	33.42	25.38
4400.00	8800.00	13200.00	17600.00	12.10	29.40	35.24	26.79
4500.00	9000.00	13500.00	18000.00	12.08	27.72	44.95	26.65
4600.00	9200.00	13800.00	18400.00	11.56	29.19	44.66	30.33
4700.00	9400.00	14100.00	18800.00	11.65	31.34	34.02	38.98
4800.00	9600.00	14400.00	19200.00	12.06	34.44	29.79	37.50
4900.00	9800.00	14700.00	19600.00	12.00	35.63	27.43	39.29
5000.00	10000.00	15000.00	20000.00	11.98	29.52	25.76	45.31

*Harmonic Output below power level of X2 Output.



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Frequency Multiplier (Doublers)

KSX2-14+

Typical Performance Data

Frequency (MHz)				RF IN = 17dBm			
				Conversion Loss (dB)	Harmonic Output* (-dBc)		
X1 Output	X2 Output	X3 Output	X4 Output	X2 Output	X1 Output	X3 Output	X4 Output
2500.00	5000.00	7500.00	10000.00	12.41	22.40	42.01	13.59
2550.00	5100.00	7650.00	10200.00	12.48	21.83	37.92	13.07
2600.00	5200.00	7800.00	10400.00	12.41	21.28	36.23	12.32
2650.00	5300.00	7950.00	10600.00	12.84	20.79	35.80	11.88
2700.00	5400.00	8100.00	10800.00	12.98	20.16	35.23	12.26
2750.00	5500.00	8250.00	11000.00	12.65	19.99	33.92	12.80
2800.00	5600.00	8400.00	11200.00	12.55	19.78	33.08	13.72
2850.00	5700.00	8550.00	11400.00	12.81	19.25	32.50	13.83
2900.00	5800.00	8700.00	11600.00	12.96	18.96	32.67	13.80
2950.00	5900.00	8850.00	11800.00	12.10	22.60	40.40	16.25
3000.00	6000.00	9000.00	12000.00	11.78	22.70	41.08	18.84
3050.00	6100.00	9150.00	12200.00	11.85	22.61	40.77	19.02
3100.00	6200.00	9300.00	12400.00	11.65	22.59	38.42	18.29
3150.00	6300.00	9450.00	12600.00	11.67	22.63	37.82	18.60
3200.00	6400.00	9600.00	12800.00	11.35	22.67	37.04	19.61
3250.00	6500.00	9750.00	13000.00	11.13	22.72	35.01	22.27
3300.00	6600.00	9900.00	13200.00	10.97	22.98	34.85	25.24
3350.00	6700.00	10050.00	13400.00	10.84	23.34	34.89	27.49
3400.00	6800.00	10200.00	13600.00	10.97	23.66	34.49	29.39
3450.00	6900.00	10350.00	13800.00	11.03	23.70	33.98	27.31
3500.00	7000.00	10500.00	14000.00	11.21	23.77	32.70	21.36
3550.00	7100.00	10650.00	14200.00	11.34	23.90	31.65	19.34
3600.00	7200.00	10800.00	14400.00	11.46	24.06	30.95	18.17
3650.00	7300.00	10950.00	14600.00	11.53	24.22	30.52	17.99
3700.00	7400.00	11100.00	14800.00	11.46	24.38	30.44	18.57
3750.00	7500.00	11250.00	15000.00	11.75	24.13	29.18	18.30
3800.00	7600.00	11400.00	15200.00	11.92	23.45	27.41	17.51
3850.00	7700.00	11550.00	15400.00	12.21	23.02	27.31	16.18
3900.00	7800.00	11700.00	15600.00	12.24	22.87	28.38	15.27
3950.00	7900.00	11850.00	15800.00	12.20	22.41	29.04	15.45
4000.00	8000.00	12000.00	16000.00	12.05	21.96	29.80	16.13
4100.00	8200.00	12300.00	16400.00	11.63	20.70	38.78	18.02
4200.00	8400.00	12600.00	16800.00	10.98	23.17	36.79	20.52
4300.00	8600.00	12900.00	17200.00	10.76	24.67	34.27	21.10
4400.00	8800.00	13200.00	17600.00	11.24	28.67	33.35	22.03
4500.00	9000.00	13500.00	18000.00	11.58	34.31	36.29	22.37
4600.00	9200.00	13800.00	18400.00	11.38	33.92	38.18	27.85
4700.00	9400.00	14100.00	18800.00	11.36	33.71	32.17	35.81
4800.00	9600.00	14400.00	19200.00	11.44	31.54	31.09	35.32
4900.00	9800.00	14700.00	19600.00	11.71	30.26	26.93	34.31
5000.00	10000.00	15000.00	20000.00	11.81	29.92	24.65	41.43

*Harmonic Output below power level of X2 Output.



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