

Frequency Multiplier (Doublers)

KSX2-24+

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
5000.00	10000.00	15000.00	20000.00	12.00	27.66	35.68	21.67
5062.50	10125.00	15187.50	20250.00	11.16	28.35	35.83	22.86
5125.00	10250.00	15375.00	20500.00	10.80	28.67	36.55	24.02
5187.50	10375.00	15562.50	20750.00	10.48	28.86	36.71	22.54
5250.00	10500.00	15750.00	21000.00	10.69	28.81	36.81	20.68
5312.50	10625.00	15937.50	21250.00	11.33	28.00	38.82	20.03
5375.00	10750.00	16125.00	21500.00	11.50	27.73	40.33	20.19
5437.50	10875.00	16312.50	21750.00	11.21	27.96	38.96	19.96
5500.00	11000.00	16500.00	22000.00	10.48	28.33	35.69	20.40
5562.50	11125.00	16687.50	22250.00	9.84	29.01	36.86	21.67
5625.00	11250.00	16875.00	22500.00	10.38	28.31	41.99	23.10
5687.50	11375.00	17062.50	22750.00	10.84	28.15	44.17	23.17
5750.00	11500.00	17250.00	23000.00	11.51	27.39	41.04	22.47
5812.50	11625.00	17437.50	23250.00	12.46	26.38	38.04	21.75
5875.00	11750.00	17625.00	23500.00	11.45	27.23	38.43	22.40
5937.50	11875.00	17812.50	23750.00	10.86	27.81	40.18	22.37
6000.00	12000.00	18000.00	24000.00	10.64	28.35	41.35	22.02
6075.00	12150.00	18225.00	24300.00	11.03	27.87	40.82	20.86
6150.00	12300.00	18450.00	24600.00	11.78	27.23	41.89	20.55
6225.00	12450.00	18675.00	24900.00	11.79	27.38	39.01	20.89
6375.00	12750.00	19125.00	25500.00	11.50	28.01	42.71	24.66
6450.00	12900.00	19350.00	25800.00	11.66	27.86	41.79	26.00
6525.00	13050.00	19575.00	26100.00	12.00	27.53	47.97	27.17
6600.00	13200.00	19800.00	26400.00	12.72	26.95	43.75	30.78
6675.00	13350.00	20025.00	26700.00	12.86	26.42	41.27	30.98
6750.00	13500.00	20250.00	27000.00	13.50	25.87	41.12	31.83
6825.00	13650.00	20475.00	27300.00	12.97	26.40	38.97	33.59
6900.00	13800.00	20700.00	27600.00	13.15	26.03	40.48	32.35
6975.00	13950.00	20925.00	27900.00	12.82	27.01	38.85	38.18
7050.00	14100.00	21150.00	28200.00	13.01	26.55	36.63	36.32
7125.00	14250.00	21375.00	28500.00	12.86	26.65	36.78	37.31
7200.00	14400.00	21600.00	28800.00	12.97	26.21	34.06	38.53
7275.00	14550.00	21825.00	29100.00	13.00	25.35	32.17	38.67
7350.00	14700.00	22050.00	29400.00	12.85	25.84	32.49	37.74
7425.00	14850.00	22275.00	29700.00	12.38	24.98	31.42	40.79
7500.00	15000.00	22500.00	30000.00	12.50	26.19	30.10	49.49
7800.00	15600.00	23400.00	31200.00	12.37	28.34	29.35	46.17
7900.00	15800.00	23700.00	31600.00	11.47	30.87	29.01	50.70
8000.00	16000.00	24000.00	32000.00	11.84	33.06	29.35	44.32
8400.00	16800.00	25200.00	33600.00	12.66	35.72	26.99	48.50
8500.00	17000.00	25500.00	34000.00	13.03	33.87	26.54	57.26
8600.00	17200.00	25800.00	34400.00	13.16	38.52	28.17	56.08
8700.00	17400.00	26100.00	34800.00	12.33	41.57	28.51	48.32
8800.00	17600.00	26400.00	35200.00	12.29	38.37	31.04	46.35
8900.00	17800.00	26700.00	35600.00	12.30	36.72	27.68	44.86
9000.00	18000.00	27000.00	36000.00	11.78	35.72	26.68	46.24
9100.00	18200.00	27300.00	36400.00	11.31	35.40	27.36	47.25
9200.00	18400.00	27600.00	36800.00	11.37	35.86	25.96	49.80
9300.00	18600.00	27900.00	37200.00	11.68	36.00	33.49	52.15
9400.00	18800.00	28200.00	37600.00	11.68	35.82	28.87	57.27
9500.00	19000.00	28500.00	38000.00	11.66	35.01	28.85	54.08
9600.00	19200.00	28800.00	38400.00	12.00	34.36	31.33	52.55
9700.00	19400.00	29100.00	38800.00	12.33	33.85	32.33	51.30
9800.00	19600.00	29400.00	39200.00	12.46	32.94	31.71	48.71
9900.00	19800.00	29700.00	39600.00	12.98	30.57	27.52	48.53
10000.00	20000.00	30000.00	40000.00	13.30	29.27	26.97	48.71

*Harmonic Output below power level of X2 Output.



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RF/MICROWAVE COMPONENTS



Frequency Multiplier (Doublers)

KSX2-24+

Typical Performance Data

Frequency (MHz)				RF IN = 16dBm			
				Conversion Loss (dB)		Harmonic Output* (-dBc)	
X1 Output	X2 Output	X3 Output	X4 Output	X2 Output	X1 Output	X3 Output	X4 Output
5000.00	10000.00	15000.00	20000.00	12.50	28.16	34.16	27.66
5062.50	10125.00	15187.50	20250.00	11.67	28.67	35.97	32.18
5125.00	10250.00	15375.00	20500.00	11.30	29.15	34.55	37.03
5187.50	10375.00	15562.50	20750.00	11.81	28.72	31.55	24.39
5250.00	10500.00	15750.00	21000.00	12.02	28.81	34.48	23.02
5312.50	10625.00	15937.50	21250.00	11.50	29.05	36.50	25.86
5375.00	10750.00	16125.00	21500.00	12.16	28.68	33.00	20.53
5437.50	10875.00	16312.50	21750.00	12.21	28.29	33.12	19.63
5500.00	11000.00	16500.00	22000.00	10.81	29.34	35.52	23.74
5562.50	11125.00	16687.50	22250.00	11.18	29.37	40.36	24.84
5625.00	11250.00	16875.00	22500.00	11.04	29.42	37.83	23.28
5687.50	11375.00	17062.50	22750.00	11.83	28.79	37.50	22.34
5750.00	11500.00	17250.00	23000.00	12.01	28.45	40.87	24.16
5812.50	11625.00	17437.50	23250.00	11.62	28.53	40.37	26.08
5875.00	11750.00	17625.00	23500.00	11.78	28.42	37.77	22.57
5937.50	11875.00	17812.50	23750.00	11.69	28.48	40.51	21.53
6000.00	12000.00	18000.00	24000.00	11.48	29.02	47.85	22.52
6075.00	12150.00	18225.00	24300.00	11.88	28.63	40.80	20.85
6150.00	12300.00	18450.00	24600.00	12.28	28.21	42.06	20.21
6225.00	12450.00	18675.00	24900.00	12.29	28.77	46.36	21.54
6375.00	12750.00	19125.00	25500.00	11.83	29.34	44.55	27.16
6450.00	12900.00	19350.00	25800.00	12.17	29.34	42.45	28.32
6525.00	13050.00	19575.00	26100.00	12.67	28.45	44.30	28.00
6600.00	13200.00	19800.00	26400.00	12.71	29.28	37.43	29.72
6675.00	13350.00	20025.00	26700.00	12.35	28.83	36.28	28.75
6750.00	13500.00	20250.00	27000.00	12.57	28.77	38.39	28.54
6825.00	13650.00	20475.00	27300.00	12.38	29.90	35.89	30.28
6900.00	13800.00	20700.00	27600.00	12.22	29.64	37.41	32.13
6975.00	13950.00	20925.00	27900.00	12.06	30.97	38.95	34.72
7050.00	14100.00	21150.00	28200.00	12.16	30.68	36.31	32.18
7125.00	14250.00	21375.00	28500.00	12.17	29.51	36.47	35.59
7200.00	14400.00	21600.00	28800.00	12.13	30.72	36.41	36.58
7275.00	14550.00	21825.00	29100.00	12.16	28.02	34.18	37.80
7350.00	14700.00	22050.00	29400.00	11.85	29.50	42.83	39.99
7425.00	14850.00	22275.00	29700.00	12.20	28.49	40.10	42.42
7500.00	15000.00	22500.00	30000.00	11.83	27.87	41.77	46.76
7800.00	15600.00	23400.00	31200.00	11.21	34.97	36.01	53.17
7900.00	15800.00	23700.00	31600.00	11.64	39.19	33.51	45.03
8000.00	16000.00	24000.00	32000.00	11.67	39.81	33.03	56.06
8400.00	16800.00	25200.00	33600.00	11.66	34.18	27.15	46.00
8500.00	17000.00	25500.00	34000.00	12.36	34.83	26.38	51.43
8600.00	17200.00	25800.00	34400.00	13.16	34.91	27.34	49.42
8700.00	17400.00	26100.00	34800.00	12.50	34.33	25.85	44.99
8800.00	17600.00	26400.00	35200.00	11.96	34.39	26.88	46.85
8900.00	17800.00	26700.00	35600.00	11.80	33.08	23.68	45.86
9000.00	18000.00	27000.00	36000.00	11.28	31.39	23.35	47.40
9100.00	18200.00	27300.00	36400.00	10.64	32.59	25.03	49.58
9200.00	18400.00	27600.00	36800.00	10.87	33.37	23.13	51.13
9300.00	18600.00	27900.00	37200.00	10.84	32.67	34.66	56.49
9400.00	18800.00	28200.00	37600.00	11.02	32.03	27.04	60.93
9500.00	19000.00	28500.00	38000.00	11.16	31.02	27.02	62.92
9600.00	19200.00	28800.00	38400.00	11.50	30.51	27.50	65.72
9700.00	19400.00	29100.00	38800.00	12.00	29.51	28.50	63.80
9800.00	19600.00	29400.00	39200.00	12.29	28.88	29.71	59.21
9900.00	19800.00	29700.00	39600.00	12.64	28.90	27.19	55.36
10000.00	20000.00	30000.00	40000.00	13.13	31.03	24.97	54.71

*Harmonic Output below power level of X2 Output.



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RF/MICROWAVE COMPONENTS

