

Frequency Multiplier (Doublers)

SYK-2-33+

Typical Performance Data

Frequency (MHz)				RF IN = 11dBm			
				Conversion Loss (dB)	Harmonic Output* (-dBc)		
X1 Output	X2 Output	X3 Output	X4 Output	X2 Output	X1 Output	X3 Output	X4 Output
50.00	100.00	150.00	200.00	10.32	61.79	45.86	15.26
60.00	120.00	180.00	240.00	10.26	62.96	46.25	15.19
70.00	140.00	210.00	280.00	10.19	64.37	45.85	15.35
80.00	160.00	240.00	320.00	10.18	65.16	45.99	15.34
148.00	296.00	444.00	592.00	10.17	48.30	44.13	15.78
216.00	432.00	648.00	864.00	10.33	44.55	38.95	15.66
284.00	568.00	852.00	1136.00	10.42	49.21	40.15	15.81
352.00	704.00	1056.00	1408.00	10.47	36.50	44.08	15.73
420.00	840.00	1260.00	1680.00	10.55	34.26	37.99	15.65
488.00	976.00	1464.00	1952.00	10.73	37.83	36.02	15.30
556.00	1112.00	1668.00	2224.00	10.76	34.45	44.33	16.17
624.00	1248.00	1872.00	2496.00	10.85	30.98	40.51	17.73
692.00	1384.00	2076.00	2768.00	10.97	30.75	37.34	19.04
760.00	1520.00	2280.00	3040.00	11.13	27.63	35.35	20.10
828.00	1656.00	2484.00	3312.00	11.44	25.68	32.90	18.13
896.00	1792.00	2688.00	3584.00	11.94	25.89	30.65	16.13
964.00	1928.00	2892.00	3856.00	12.60	26.14	29.82	14.67
1032.00	2064.00	3096.00	4128.00	12.89	25.37	33.01	15.09
1100.00	2200.00	3300.00	4400.00	12.84	28.41	32.32	16.69
1168.00	2336.00	3504.00	4672.00	12.77	31.16	28.60	18.53
1236.00	2472.00	3708.00	4944.00	12.72	28.98	28.14	20.76
1304.00	2608.00	3912.00	5216.00	12.59	27.83	28.88	23.16
1372.00	2744.00	4116.00	5488.00	12.52	27.74	28.02	25.51
1440.00	2880.00	4320.00	5760.00	12.49	25.48	28.47	26.69
1450.00	2900.00	4350.00	5800.00	12.54	25.08	28.55	26.88
1460.00	2920.00	4380.00	5840.00	12.57	24.76	28.68	27.09
1470.00	2940.00	4410.00	5880.00	12.58	24.58	28.96	27.45
1480.00	2960.00	4440.00	5920.00	12.60	24.47	29.06	27.72
1490.00	2980.00	4470.00	5960.00	12.58	24.57	29.19	28.07
1500.00	3000.00	4500.00	6000.00	12.51	25.11	29.38	28.47

*Harmonic Output below power level of X2 Output .



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RF/IF MICROWAVE COMPONENTS

Frequency Multiplier (Doublers)

SYK-2-33+

Typical Performance Data

Frequency (MHz)				RF IN = 15dBm			
				Conversion Loss (dB)	Harmonic Output* (-dBc)		
X1 Output	X2 Output	X3 Output	X4 Output	X2 Output	X1 Output	X3 Output	X4 Output
50.00	100.00	150.00	200.00	10.78	54.14	40.80	18.51
60.00	120.00	180.00	240.00	10.65	52.22	39.46	18.44
70.00	140.00	210.00	280.00	10.55	50.22	38.21	19.49
80.00	160.00	240.00	320.00	10.54	50.13	38.66	19.17
148.00	296.00	444.00	592.00	10.61	46.57	37.88	21.30
216.00	432.00	648.00	864.00	10.88	44.67	34.98	19.78
284.00	568.00	852.00	1136.00	11.13	48.81	36.67	20.08
352.00	704.00	1056.00	1408.00	11.33	37.80	41.55	18.74
420.00	840.00	1260.00	1680.00	11.20	34.68	34.53	18.55
488.00	976.00	1464.00	1952.00	11.29	40.13	31.84	16.46
556.00	1112.00	1668.00	2224.00	11.31	38.34	37.42	16.88
624.00	1248.00	1872.00	2496.00	11.22	32.81	34.80	17.99
692.00	1384.00	2076.00	2768.00	11.12	34.11	33.34	20.62
760.00	1520.00	2280.00	3040.00	11.15	31.38	33.62	21.85
828.00	1656.00	2484.00	3312.00	11.01	29.34	32.28	24.13
896.00	1792.00	2688.00	3584.00	11.31	29.11	31.63	22.00
964.00	1928.00	2892.00	3856.00	11.66	29.16	31.29	20.91
1032.00	2064.00	3096.00	4128.00	11.93	28.18	31.85	20.24
1100.00	2200.00	3300.00	4400.00	12.05	34.51	39.57	20.48
1168.00	2336.00	3504.00	4672.00	11.90	48.30	30.89	21.67
1236.00	2472.00	3708.00	4944.00	11.77	39.97	29.30	23.23
1304.00	2608.00	3912.00	5216.00	11.63	35.81	29.88	24.98
1372.00	2744.00	4116.00	5488.00	11.52	35.26	29.49	26.87
1440.00	2880.00	4320.00	5760.00	11.59	31.39	29.53	28.36
1450.00	2900.00	4350.00	5800.00	11.60	30.86	29.46	28.42
1460.00	2920.00	4380.00	5840.00	11.66	30.35	29.37	28.53
1470.00	2940.00	4410.00	5880.00	11.74	29.97	29.46	28.93
1480.00	2960.00	4440.00	5920.00	11.81	29.70	29.43	29.02
1490.00	2980.00	4470.00	5960.00	11.82	29.74	29.45	29.45
1500.00	3000.00	4500.00	6000.00	11.82	30.22	29.60	29.82

*Harmonic Output below power level of X2 Output .



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RF/IF MICROWAVE COMPONENTS



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