

Frequency Multiplier (Doublers)

ZX90-2-50-S+

Typical Performance Data

Frequency (MHz)				RF IN = 7dBm			
				Conversion Loss (dB)	Harmonic Output* (-dBc)		
X1 Output	X2 Output	X3 Output	X4 Output	X2 Output	X1 Output	X3 Output	X4 Output
3500	7000	10500	14000	10.88	15.91	29.63	29.65
3550	7100	10650	14200	10.74	16.55	28.23	28.38
3600	7200	10800	14400	10.74	17.17	27.72	27.50
3650	7300	10950	14600	10.91	17.40	27.35	27.23
3700	7400	11100	14800	10.88	17.90	26.94	26.38
3750	7500	11250	15000	10.80	18.67	28.00	25.28
3800	7600	11400	15200	10.46	19.85	29.66	24.28
3900	7800	11700	15600	10.93	21.28	32.96	27.76
4000	8000	12000	16000	10.95	22.84	40.10	45.29
4100	8200	12300	16400	11.48	22.96	41.83	42.62
4200	8400	12600	16800	11.89	22.10	42.54	34.58
4300	8600	12900	17200	12.07	20.67	40.52	31.92
4400	8800	13200	17600	12.37	18.11	47.47	34.58
4500	9000	13500	18000	12.66	15.97	32.75	35.82
4625	9250	13875	18500	13.27	13.69	29.87	38.82
4750	9500	14250	19000	13.57	12.04	31.57	46.00
4875	9750	14625	19500	14.21	10.43	27.56	49.09
5000	10000	15000	20000	15.18	9.16	29.15	46.56

*Harmonic Output below power level of X2 Output .

Frequency (MHz)				RF IN = 12dBm			
				Conversion Loss (dB)	Harmonic Output* (-dBc)		
X1 Output	X2 Output	X3 Output	X4 Output	X2 Output	X1 Output	X3 Output	X4 Output
3500	7000	10500	14000	12.57	12.68	22.80	28.70
3550	7100	10650	14200	12.68	12.73	21.63	26.66
3600	7200	10800	14400	12.66	12.83	21.00	24.82
3650	7300	10950	14600	12.76	12.73	20.42	23.12
3700	7400	11100	14800	12.61	13.05	20.94	22.45
3750	7500	11250	15000	12.22	13.61	23.93	22.83
3800	7600	11400	15200	12.15	14.03	27.08	23.05
3900	7800	11700	15600	12.01	15.74	32.82	28.60
4000	8000	12000	16000	12.11	16.94	47.23	53.48
4100	8200	12300	16400	12.59	16.34	34.29	45.83
4200	8400	12600	16800	13.50	15.67	33.45	34.29
4300	8600	12900	17200	13.66	16.63	35.68	32.49
4400	8800	13200	17600	14.20	16.38	29.12	32.64
4500	9000	13500	18000	14.16	14.40	29.17	28.29
4625	9250	13875	18500	13.86	14.15	46.73	35.22
4750	9500	14250	19000	14.58	12.00	38.82	39.76
4875	9750	14625	19500	14.15	10.56	38.22	51.13
5000	10000	15000	20000	14.51	10.78	43.85	40.76

*Harmonic Output below power level of X2 Output .



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IF/RF MICROWAVE COMPONENTS

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