

Frequency Multiplier (Doublers)

ZX90-2-36+

Typical Performance Data

FREQUENCY (MHz)				RF IN=+8dBm			
				CONVERSION LOSS (dB)	HARMONIC OUTPUT*		
					X 2 OUTPUT	X 1 OUTPUT	X 3 OUTPUT
X 1 OUTPUT	X 2 OUTPUT	X 3 OUTPUT	X 4 OUTPUT	X 2 OUTPUT	X 1 OUTPUT	X 3 OUTPUT	X 4 OUTPUT
1600	3200	4800	6400	13.18	17.12	23.02	21.13
1700	3400	5100	6800	12.68	18.93	35.89	18.96
1750	3500	5250	7000	12.22	18.33	35.27	18.16
1800	3600	5400	7200	11.47	17.95	45.16	18.70
1850	3700	5550	7400	11.26	17.83	33.29	18.35
1900	3800	5700	7600	11.15	18.26	29.79	17.36
1950	3900	5850	7800	10.86	18.26	35.39	16.48
2000	4000	6000	8000	10.46	18.70	38.44	17.89
2050	4100	6150	8200	9.90	19.31	39.98	18.47
2100	4200	6300	8400	10.07	19.42	42.00	18.43
2250	4500	6750	9000	9.71	20.53	36.43	19.74
2400	4800	7200	9600	9.83	22.22	40.20	18.46
2550	5100	7650	10200	10.18	23.64	34.87	17.62
2700	5400	8100	10800	10.15	25.01	32.22	18.45
2800	5600	8400	11200	10.57	23.60	27.52	16.04
2900	5800	8700	11600	10.06	23.06	31.99	16.59
3000	6000	9000	12000	10.91	23.72	27.97	20.74
3150	6300	9450	12600	9.72	25.28	30.62	24.35
3300	6600	9900	13200	9.72	30.15	34.56	28.81
3450	6900	10350	13800	9.39	30.67	35.55	25.72
3600	7200	10800	14400	9.64	33.36	40.47	24.29
3700	7400	11100	14800	9.95	26.15	32.21	27.06
3800	7600	11400	15200	9.88	28.59	28.10	21.48

*Harmonic Output below power level of X 2 Output .

FREQUENCY (MHz)				RF IN=+13dBm			
				CONVERSION LOSS (dB)	HARMONIC OUTPUT*		
					X 2 OUTPUT	X 1 OUTPUT	X 3 OUTPUT
X 1 OUTPUT	X 2 OUTPUT	X 3 OUTPUT	X 4 OUTPUT	X 2 OUTPUT	X 1 OUTPUT	X 3 OUTPUT	X 4 OUTPUT
1600	3200	4800	6400	12.29	13.42	22.25	18.94
1700	3400	5100	6800	11.15	15.47	26.66	24.11
1750	3500	5250	7000	11.37	15.03	28.94	16.00
1800	3600	5400	7200	11.77	14.50	33.64	13.06
1850	3700	5550	7400	11.42	14.99	38.73	13.03
1900	3800	5700	7600	10.86	15.86	36.04	18.11
1950	3900	5850	7800	11.56	16.26	45.42	16.46
2000	4000	6000	8000	11.96	16.13	42.66	13.95
2050	4100	6150	8200	11.28	17.93	34.78	16.77
2100	4200	6300	8400	11.35	18.45	35.13	18.82
2250	4500	6750	9000	10.68	19.13	33.84	20.75
2400	4800	7200	9600	11.12	19.30	30.47	14.87
2550	5100	7650	10200	10.67	22.48	34.32	16.03
2700	5400	8100	10800	11.52	23.48	44.56	14.58
2800	5600	8400	11200	10.65	23.99	33.19	16.01
2900	5800	8700	11600	10.10	22.56	55.64	15.38
3000	6000	9000	12000	9.89	24.68	37.24	23.88
3150	6300	9450	12600	9.72	26.74	43.78	26.57
3300	6600	9900	13200	9.63	30.16	34.29	30.43
3450	6900	10350	13800	9.16	28.55	34.48	30.97
3600	7200	10800	14400	9.78	36.72	37.99	28.94
3700	7400	11100	14800	10.30	21.80	27.15	33.72
3800	7600	11400	15200	10.55	25.41	26.68	30.43

*Harmonic Output below power level of X 2 Output .



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