Frequency Multiplier (Tripler) RMK-3-31+

Typical Performance Data

FREQUENCY (MHz)				CONVERSION LOSS (dB)	RF IN = +12 dBm HARMONIC OUTPUT* (-dBc)		
X1 OUTPUT	X2 OUTPUT	X3 OUTPUT	X4 OUTPUT	X3 OUTPUT	X1 OUTPUT	X2 OUTPUT	X4 OUTPUT
8.0	16.0	24.0	32.0	14.59	4.59	70.61	66.68
8.2	16.4	24.6	32.8	14.59	4.18	71.09	67.12
8.4	16.8	25.2	33.6	14.65	3.71	70.00	66.43
8.6	17.2	25.8	34.4	14.63	3.39	68.57	65.45
8.8	17.6	26.4	35.2	14.63	2.97	67.08	64.65
9.0	18.0	27.0	36.0	14.51	2.72	65.74	63.66
9.2	18.4	27.6	36.8	14.40	2.39	64.62	62.89
9.4	18.8	28.2	37.6	14.22	2.17	63.77	62.13
9.6	19.2	28.8	38.4	14.01	2.00	63.28	61.62
9.8	19.6	29.4	39.2	13.87	1.75	62.94	61.28
10.0	20.0	30.0	40.0	13.80	1.45	62.73	61.01
10.2	20.4	30.6	40.8	13.75	1.15	62.60	60.98
10.4	20.8	31.2	41.6	13.82	0.73	62.36	60.95
10.6	21.2	31.8	42.4	13.87	0.34	62.16	60.96
10.8	21.6	32.4	43.2	13.99	-0.07	61.91	60.99
11.0	22.0	33.0	44.0	14.11	-0.54	61.57	61.02
11.2	22.4	33.6	44.8	14.20	-0.96	61.28	61.09
11.4	22.8	34.2	45.6	14.27	-1.38	61.00	61.15
11.6	23.2	34.8	46.4	14.26	-1.64	60.90	61.24
11.8	23.6	35.4	47.2	14.27	-1.96	60.69	61.34
12.0	24.0	36.0	48.0	14.31	-2.30	60.48	61.41
12.3	24.5	36.8	49.0	14.37	-2.76	60.07	61.49
12.5	25.0	37.5	50.0	14.24	-2.95	60.01	61.61
12.8	25.5	38.3	51.0	14.02	-3.13	59.93	61.79
13.0	26.0	39.0	52.0	13.74	-3.21	59.98	61.92
13.3	26.5	39.8	53.0	13.51	-3.35	59.94	62.06
14.0	28.0	42.0	56.0	13.38	-4.25	59.08	62.27

* Harmonic Output below power level of X3 Output.

FREQUENCY (MHz)				CONVERSION LOSS (dB)	RF IN = +17dBm HARMONIC OUTPUT* (-dBc)		
X1 OUTPUT	X2 OUTPUT	X3 OUTPUT	X4 OUTPUT	X3 OUTPUT	X1 OUTPUT	X2 OUTPUT	X4 OUTPUT
8.0	16.0	24.0	32.0	15.96	7.14	71.50	65.09
8.2	16.4	24.6	32.8	15.64	6.98	70.04	64.71
8.4	16.8	25.2	33.6	15.43	6.80	68.07	63.27
8.6	17.2	25.8	34.4	15.15	6.61	66.63	62.12
8.8	17.6	26.4	35.2	14.98	6.43	65.68	61.42
9.0	18.0	27.0	36.0	14.78	6.18	65.14	61.05
9.2	18.4	27.6	36.8	14.66	5.94	64.67	60.79
9.4	18.8	28.2	37.6	14.54	5.71	64.06	60.55
9.6	19.2	28.8	38.4	14.49	5.41	63.07	60.23
9.8	19.6	29.4	39.2	14.38	5.17	62.19	59.92
10.0	20.0	30.0	40.0	14.33	4.86	61.38	59.62
10.2	20.4	30.6	40.8	14.25	4.58	60.65	59.46
10.4	20.8	31.2	41.6	14.18	4.28	60.07	59.36
10.6	21.2	31.8	42.4	14.12	3.98	59.61	59.25
10.8	21.6	32.4	43.2	14.10	3.63	59.22	59.21
11.0	22.0	33.0	44.0	14.04	3.33	59.05	59.32
11.2	22.4	33.6	44.8	14.01	3.02	59.02	59.52
11.4	22.8	34.2	45.6	14.00	2.68	59.13	59.75
11.6	23.2	34.8	46.4	14.04	2.39	59.00	59.81
11.8	23.6	35.4	47.2	14.02	2.03	59.44	60.20
12.0	24.0	36.0	48.0	14.09	1.71	59.46	60.32
12.3	24.5	36.8	49.0	14.16	1.31	59.79	60.64
12.5	25.0	37.5	50.0	14.28	0.87	60.44	61.06
12.8	25.5	38.3	51.0	14.44	0.40	61.04	61.43
13.0	26.0	39.0	52.0	14.55	0.03	61.53	61.73
13.3	26.5	39.8	53.0	14.61	0.33	61.86	61.91
14.0	28.0	42.0	56.0	14.53	-1.35	62.05	62.04

* Harmonic Output below power level of X3 Output.