

Frequency Multiplier (X7)

RMK-7-81+

Typical Performance Data

FREQUENCY (MHz)								CONVERSION LOSS (dB)	RF IN = +8 dBm HARMONIC OUTPUT* (-dBc)							
X1 OUTPUT	X2 OUTPUT	X3 OUTPUT	X4 OUTPUT	X5 OUTPUT	X6 OUTPUT	X7 OUTPUT	X8 OUTPUT	X7 OUTPUT	X1 OUTPUT	X2 OUTPUT	X3 OUTPUT	X4 OUTPUT	X5 OUTPUT	X6 OUTPUT	X8 OUTPUT	
7.0	14.0	21.0	28.0	35.0	42.0	49.0	56.0	26.53	11.17	57.06	3.40	48.78	0.04	43.61	42.54	
7.5	15.0	22.5	30.0	37.5	45.0	52.5	60.0	25.96	10.53	66.11	2.71	52.37	-0.46	47.38	46.47	
8.0	16.0	24.0	32.0	40.0	48.0	56.0	64.0	25.51	9.76	71.85	1.96	72.52	-0.99	68.21	62.54	
8.5	17.0	25.5	34.0	42.5	51.0	59.5	68.0	25.27	8.84	70.16	1.11	74.97	-1.58	69.19	63.37	
9.0	18.0	27.0	36.0	45.0	54.0	63.0	72.0	25.43	7.65	69.88	-0.01	74.79	-2.32	64.97	61.80	
9.5	19.0	28.5	38.0	47.5	57.0	66.5	76.0	25.90	6.31	69.69	-1.32	73.85	-3.16	62.39	61.23	
10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	26.18	5.14	68.54	-2.49	74.25	-3.85	61.23	60.96	
10.5	21.0	31.5	42.0	52.5	63.0	73.5	84.0	26.19	4.25	67.43	-3.36	73.07	-4.32	59.86	60.21	
11.0	22.0	33.0	44.0	55.0	66.0	77.0	88.0	26.28	3.32	65.99	-4.24	73.54	-4.74	59.19	60.08	
11.5	23.0	34.5	46.0	57.5	69.0	80.5	92.0	27.07	1.84	63.71	-5.59	80.83	-5.36	60.71	61.83	
12.0	24.0	36.0	48.0	60.0	72.0	84.0	96.0	28.17	0.13	61.50	-7.14	66.15	-6.06	62.37	64.15	
12.5	25.0	37.5	50.0	62.5	75.0	87.5	100.0	29.09	-1.40	59.47	-8.51	61.75	-6.62	62.81	65.50	
13.0	26.0	39.0	52.0	65.0	78.0	91.0	104.0	30.36	-3.27	57.18	-10.13	57.68	-7.31	62.32	66.31	

* Harmonic Output below power level of X7 Output.

FREQUENCY (MHz)								CONVERSION LOSS (dB)	RF IN = +12 dBm HARMONIC OUTPUT* (-dBc)							
X1 OUTPUT	X2 OUTPUT	X3 OUTPUT	X4 OUTPUT	X5 OUTPUT	X6 OUTPUT	X7 OUTPUT	X8 OUTPUT	X7 OUTPUT	X1 OUTPUT	X2 OUTPUT	X3 OUTPUT	X4 OUTPUT	X5 OUTPUT	X6 OUTPUT	X8 OUTPUT	
7.0	14.0	21.0	28.0	35.0	42.0	49.0	56.0	28.52	12.38	54.98	4.77	46.79	0.93	41.22	39.30	
7.5	15.0	22.5	30.0	37.5	45.0	52.5	60.0	28.01	11.70	60.82	4.02	48.04	0.36	42.27	40.62	
8.0	16.0	24.0	32.0	40.0	48.0	56.0	64.0	27.45	11.01	75.79	3.38	60.96	-0.12	54.07	51.87	
8.5	17.0	25.5	34.0	42.5	51.0	59.5	68.0	26.98	10.21	74.16	2.70	60.69	-0.62	53.58	51.78	
9.0	18.0	27.0	36.0	45.0	54.0	63.0	72.0	26.85	9.27	77.90	1.81	57.39	-1.24	51.02	50.10	
9.5	19.0	28.5	38.0	47.5	57.0	66.5	76.0	27.13	8.18	76.65	0.65	55.74	-1.99	49.94	49.83	
10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	27.41	7.08	73.56	-0.49	54.85	-2.67	49.65	50.10	
10.5	21.0	31.5	42.0	52.5	63.0	73.5	84.0	27.38	6.23	71.30	-1.35	53.60	-3.14	48.88	49.62	
11.0	22.0	33.0	44.0	55.0	66.0	77.0	88.0	27.27	5.44	69.18	-2.07	52.35	-3.47	47.96	48.83	
11.5	23.0	34.5	46.0	57.5	69.0	80.5	92.0	27.62	4.39	69.12	-3.06	53.03	-3.88	48.89	49.96	
12.0	24.0	36.0	48.0	60.0	72.0	84.0	96.0	28.27	3.17	68.26	-4.24	55.01	-4.34	50.79	52.15	
12.5	25.0	37.5	50.0	62.5	75.0	87.5	100.0	28.84	2.03	66.28	-5.32	56.63	-4.72	52.27	53.84	
13.0	26.0	39.0	52.0	65.0	78.0	91.0	104.0	29.64	0.70	64.05	-6.54	59.22	-5.16	54.07	56.07	

* Harmonic Output below power level of X7 Output.



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