

Frequency Multiplier (Tripler)

RMK-3-212+

Typical Performance Data

FREQUENCY (MHz)				CONVERSION LOSS (dB)	RF IN = +12 dBm		
X1 OUTPUT	X2 OUTPUT	X3 OUTPUT	X4 OUTPUT		HARMONIC OUTPUT* (-dBc)		
375.0	750.0	1125.0	1500.0	13.87	5.36	42.64	41.16
380.0	760.0	1140.0	1520.0	13.70	5.30	42.35	40.63
385.0	770.0	1155.0	1540.0	13.45	5.27	48.87	49.92
390.0	780.0	1170.0	1560.0	13.51	4.99	52.22	56.37
395.0	790.0	1185.0	1580.0	13.65	4.69	55.03	64.34
400.0	800.0	1200.0	1600.0	13.90	4.33	58.54	61.14
410.0	820.0	1230.0	1640.0	14.83	3.12	76.86	51.07
420.0	840.0	1260.0	1680.0	14.31	3.19	48.56	45.43
430.0	860.0	1290.0	1720.0	13.69	3.25	52.56	61.49
440.0	880.0	1320.0	1760.0	13.23	3.22	58.45	58.99
450.0	900.0	1350.0	1800.0	13.14	2.97	60.21	55.85
460.0	920.0	1380.0	1840.0	13.73	2.23	55.69	60.67
470.0	940.0	1410.0	1880.0	14.56	1.14	50.38	57.74
480.0	960.0	1440.0	1920.0	15.07	0.21	52.60	52.39
490.0	980.0	1470.0	1960.0	13.56	1.14	55.07	53.55
500.0	1000.0	1500.0	2000.0	12.92	1.29	55.39	53.35
520.0	1040.0	1560.0	2080.0	12.49	0.97	53.40	52.77
540.0	1080.0	1620.0	2160.0	14.07	-0.92	54.39	51.85
560.0	1120.0	1680.0	2240.0	13.81	-1.41	54.88	52.02
580.0	1160.0	1740.0	2320.0	13.03	-1.42	54.56	51.27
600.0	1200.0	1800.0	2400.0	13.26	-2.20	55.45	50.85
620.0	1240.0	1860.0	2480.0	13.21	-2.70	54.73	50.18
640.0	1280.0	1920.0	2560.0	12.78	-3.00	56.44	49.77
660.0	1320.0	1980.0	2640.0	13.82	-4.31	58.17	49.01
680.0	1360.0	2040.0	2720.0	14.16	-5.19	60.35	48.50
700.0	1400.0	2100.0	2800.0	12.94	-4.69	58.33	48.77
710.0	1420.0	2130.0	2840.0	13.57	-5.45	60.50	48.39
720.0	1440.0	2160.0	2880.0	14.87	-6.74	60.74	48.05
730.0	1460.0	2190.0	2920.0	15.23	-7.34	59.21	47.46
740.0	1480.0	2220.0	2960.0	14.65	-7.13	58.08	47.69
750.0	1500.0	2250.0	3000.0	12.76	-5.85	54.62	48.21
760.0	1520.0	2280.0	3040.0	10.90	-4.71	56.53	46.52
770.0	1540.0	2310.0	3080.0	13.34	-6.69	54.16	47.00
780.0	1560.0	2340.0	3120.0	15.69	-8.73	52.47	47.45

* Harmonic Output below power level of X3 Output.

FREQUENCY (MHz)				CONVERSION LOSS (dB)	RF IN = +17dBm		
X1 OUTPUT	X2 OUTPUT	X3 OUTPUT	X4 OUTPUT		HARMONIC OUTPUT* (-dBc)		
375.0	750.0	1125.0	1500.0	16.62	6.61	52.96	47.32
380.0	760.0	1140.0	1520.0	16.70	6.35	39.18	34.22
385.0	770.0	1155.0	1540.0	16.41	6.35	44.73	40.96
390.0	780.0	1170.0	1560.0	16.26	6.25	49.23	46.30
395.0	790.0	1185.0	1580.0	16.09	6.17	52.34	50.89
400.0	800.0	1200.0	1600.0	15.96	6.10	54.79	54.66
410.0	820.0	1230.0	1640.0	15.65	5.87	59.35	61.06
420.0	840.0	1260.0	1680.0	15.48	5.64	65.42	56.75
430.0	860.0	1290.0	1720.0	15.53	5.28	56.57	58.46
440.0	880.0	1320.0	1760.0	15.36	5.07	60.52	64.22
450.0	900.0	1350.0	1800.0	15.10	4.87	58.81	57.48
460.0	920.0	1380.0	1840.0	14.91	4.64	52.63	54.54
470.0	940.0	1410.0	1880.0	14.83	4.32	56.01	61.72
480.0	960.0	1440.0	1920.0	15.22	3.65	56.90	60.35
490.0	980.0	1470.0	1960.0	15.07	3.47	56.95	61.55
500.0	1000.0	1500.0	2000.0	15.14	3.10	56.70	60.08
520.0	1040.0	1560.0	2080.0	14.60	2.80	55.45	57.67
540.0	1080.0	1620.0	2160.0	14.36	2.26	55.71	59.08
560.0	1120.0	1680.0	2240.0	15.00	1.27	54.06	58.24
580.0	1160.0	1740.0	2320.0	14.97	0.63	54.32	55.26
600.0	1200.0	1800.0	2400.0	14.85	0.09	53.88	55.14
620.0	1240.0	1860.0	2480.0	15.16	-0.64	52.35	55.34
640.0	1280.0	1920.0	2560.0	14.68	-1.07	53.47	53.53
660.0	1320.0	1980.0	2640.0	15.22	-1.82	53.78	51.42
680.0	1360.0	2040.0	2720.0	16.05	-2.94	54.02	50.03
700.0	1400.0	2100.0	2800.0	14.91	-2.75	53.19	50.71
710.0	1420.0	2130.0	2840.0	15.33	-3.27	53.45	51.21
720.0	1440.0	2160.0	2880.0	16.46	-4.24	52.47	49.75
730.0	1460.0	2190.0	2920.0	16.83	-4.76	52.68	52.34
740.0	1480.0	2220.0	2960.0	16.40	-4.73	53.38	48.57
750.0	1500.0	2250.0	3000.0	14.98	-4.10	53.77	48.07
760.0	1520.0	2280.0	3040.0	13.86	-4.11	49.64	53.06
770.0	1540.0	2310.0	3080.0	15.48	-4.74	55.39	45.82
780.0	1560.0	2340.0	3120.0	17.15	-6.11	54.35	46.65

* Harmonic Output below power level of X3 Output.



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 Page 1 of 1