

# Frequency Multiplier (Tripler)

# RMK-3-662+

## Typical Performance Data

Test Conditions: RF Input Power = 9 dBm @ +25°C

FREQUENCY (MHz)				CONVERSION LOSS (dB)	HARMONIC OUTPUT* (-dBc)		
X1 OUTPUT	X2 OUTPUT	X3 OUTPUT	X4 OUTPUT	X3 OUTPUT	X1 OUTPUT	X2 OUTPUT	X4 OUTPUT
1500.0	3000.0	4500.0	6000.0	16.82	5.65	38.60	29.93
1520.0	3040.0	4560.0	6080.0	16.75	5.41	38.86	29.57
1540.0	3080.0	4620.0	6160.0	16.47	5.56	40.01	29.69
1560.0	3120.0	4680.0	6240.0	15.94	6.05	43.28	30.64
1580.0	3160.0	4740.0	6320.0	16.08	5.87	44.98	30.37
1600.0	3200.0	4800.0	6400.0	16.12	5.78	45.21	30.49
1615.0	3230.0	4845.0	6460.0	15.73	6.04	47.15	31.37
1630.0	3260.0	4890.0	6520.0	15.38	6.29	48.64	32.22
1645.0	3290.0	4935.0	6580.0	15.26	6.31	50.14	32.49
1660.0	3320.0	4980.0	6640.0	15.19	6.34	52.83	32.81
1675.0	3350.0	5025.0	6700.0	15.04	6.43	55.68	33.47
1690.0	3380.0	5070.0	6760.0	14.93	6.24	56.96	34.08
1705.0	3410.0	5115.0	6820.0	14.89	6.06	57.16	34.29
1720.0	3440.0	5160.0	6880.0	14.78	5.91	61.55	34.39
1735.0	3470.0	5205.0	6940.0	14.62	5.89	69.31	34.51
1750.0	3500.0	5250.0	7000.0	14.38	5.97	66.75	35.45
1765.0	3530.0	5295.0	7060.0	14.19	5.97	62.31	36.24
1780.0	3560.0	5340.0	7120.0	14.25	5.74	63.40	36.43
1795.0	3590.0	5385.0	7180.0	14.27	5.51	63.55	36.62
1810.0	3620.0	5430.0	7240.0	14.12	5.54	63.44	37.14
1825.0	3650.0	5475.0	7300.0	13.91	5.54	61.97	37.89
1840.0	3680.0	5520.0	7360.0	13.84	5.48	60.79	38.33
1855.0	3710.0	5565.0	7420.0	14.07	5.30	60.69	37.83
1870.0	3740.0	5610.0	7480.0	14.23	5.19	58.78	37.77
1885.0	3770.0	5655.0	7540.0	14.10	5.34	58.36	38.40
1900.0	3800.0	5700.0	7600.0	13.99	5.31	60.48	38.85
1930.0	3860.0	5790.0	7720.0	14.36	4.87	61.14	39.12
1960.0	3920.0	5880.0	7840.0	14.21	4.86	61.24	39.38
1990.0	3980.0	5970.0	7960.0	14.70	4.39	65.25	38.78
2020.0	4040.0	6060.0	8080.0	14.31	4.09	72.22	40.04
2050.0	4100.0	6150.0	8200.0	14.91	3.21	63.72	39.56
2080.0	4160.0	6240.0	8320.0	14.69	3.27	54.04	39.44
2110.0	4220.0	6330.0	8440.0	14.85	2.84	51.23	41.32
2140.0	4280.0	6420.0	8560.0	15.08	2.54	46.63	40.55
2170.0	4340.0	6510.0	8680.0	15.86	1.90	43.67	39.29
2200.0	4400.0	6600.0	8800.0	15.59	2.24	43.06	40.04
2220.0	4440.0	6660.0	8880.0	15.81	2.01	42.41	40.20
2240.0	4480.0	6720.0	8960.0	16.26	1.48	40.81	40.64
2260.0	4520.0	6780.0	9040.0	16.19	1.46	39.99	40.64
2280.0	4560.0	6840.0	9120.0	16.03	1.56	41.18	40.31
2300.0	4600.0	6900.0	9200.0	16.19	1.21	41.56	40.13

\* Harmonic Output below power level of X3 Output.



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# Frequency Multiplier (Tripler)

# RMK-3-662+

## Typical Performance Data

Test Conditions: RF Input Power = 9 dBm @ -40°C

FREQUENCY (MHz)				CONVERSION LOSS (dB)	HARMONIC OUTPUT* (-dBc)		
X1 OUTPUT	X2 OUTPUT	X3 OUTPUT	X4 OUTPUT	X3 OUTPUT	X1 OUTPUT	X2 OUTPUT	X4 OUTPUT
1500.0	3000.0	4500.0	6000.0	16.54	5.49	37.85	29.30
1520.0	3040.0	4560.0	6080.0	16.48	5.24	37.64	28.80
1540.0	3080.0	4620.0	6160.0	16.21	5.38	37.84	28.25
1560.0	3120.0	4680.0	6240.0	15.53	6.12	40.57	29.04
1580.0	3160.0	4740.0	6320.0	15.88	5.70	41.11	28.49
1600.0	3200.0	4800.0	6400.0	16.04	5.45	41.39	28.27
1615.0	3230.0	4845.0	6460.0	15.52	5.83	43.48	29.08
1630.0	3260.0	4890.0	6520.0	15.18	6.08	45.03	29.67
1645.0	3290.0	4935.0	6580.0	15.02	6.12	47.26	29.97
1660.0	3320.0	4980.0	6640.0	15.04	6.05	50.42	30.35
1675.0	3350.0	5025.0	6700.0	14.87	6.17	52.95	31.00
1690.0	3380.0	5070.0	6760.0	14.75	6.00	53.44	32.00
1705.0	3410.0	5115.0	6820.0	14.62	5.89	54.44	32.18
1720.0	3440.0	5160.0	6880.0	14.54	5.69	57.75	32.24
1735.0	3470.0	5205.0	6940.0	14.41	5.67	64.31	32.50
1750.0	3500.0	5250.0	7000.0	14.16	5.76	76.06	33.60
1765.0	3530.0	5295.0	7060.0	13.91	5.82	69.67	34.71
1780.0	3560.0	5340.0	7120.0	13.99	5.54	64.49	34.80
1795.0	3590.0	5385.0	7180.0	13.96	5.36	66.84	35.09
1810.0	3620.0	5430.0	7240.0	13.82	5.40	61.32	35.99
1825.0	3650.0	5475.0	7300.0	13.59	5.44	60.71	36.54
1840.0	3680.0	5520.0	7360.0	13.48	5.42	59.47	37.28
1855.0	3710.0	5565.0	7420.0	13.75	5.18	58.80	36.72
1870.0	3740.0	5610.0	7480.0	13.90	5.09	59.00	36.69
1885.0	3770.0	5655.0	7540.0	13.72	5.27	58.69	37.50
1900.0	3800.0	5700.0	7600.0	13.56	5.27	60.14	38.33
1930.0	3860.0	5790.0	7720.0	14.09	4.68	53.81	38.08
1960.0	3920.0	5880.0	7840.0	13.82	4.76	58.06	38.24
1990.0	3980.0	5970.0	7960.0	14.34	4.22	62.23	38.06
2020.0	4040.0	6060.0	8080.0	13.88	4.01	68.13	39.22
2050.0	4100.0	6150.0	8200.0	14.49	3.16	68.35	38.63
2080.0	4160.0	6240.0	8320.0	14.16	3.28	56.80	37.67
2110.0	4220.0	6330.0	8440.0	14.35	2.84	53.75	40.02
2140.0	4280.0	6420.0	8560.0	14.65	2.48	48.63	37.83
2170.0	4340.0	6510.0	8680.0	15.40	1.89	45.03	36.89
2200.0	4400.0	6600.0	8800.0	15.07	2.28	43.75	37.82
2220.0	4440.0	6660.0	8880.0	15.37	1.95	42.84	38.21
2240.0	4480.0	6720.0	8960.0	15.93	1.31	39.42	36.92
2260.0	4520.0	6780.0	9040.0	15.81	1.32	39.36	37.22
2280.0	4560.0	6840.0	9120.0	15.61	1.42	38.45	36.85
2300.0	4600.0	6900.0	9200.0	15.75	1.10	38.89	36.09

\* Harmonic Output below power level of X3 Output.



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# Frequency Multiplier (Tripler)

# RMK-3-662+

## Typical Performance Data

Test Conditions: RF Input Power = 9 dBm @ +85°C

FREQUENCY (MHz)				CONVERSION LOSS (dB)	HARMONIC OUTPUT* (-dBc)		
X1 OUTPUT	X2 OUTPUT	X3 OUTPUT	X4 OUTPUT	X3 OUTPUT	X1 OUTPUT	X2 OUTPUT	X4 OUTPUT
1500.0	3000.0	4500.0	6000.0	17.40	5.81	41.53	31.93
1520.0	3040.0	4560.0	6080.0	17.34	5.55	43.07	31.94
1540.0	3080.0	4620.0	6160.0	16.91	5.85	45.01	32.49
1560.0	3120.0	4680.0	6240.0	16.33	6.53	49.61	34.08
1580.0	3160.0	4740.0	6320.0	16.59	6.14	49.36	33.54
1600.0	3200.0	4800.0	6400.0	16.67	5.96	48.78	33.43
1615.0	3230.0	4845.0	6460.0	16.15	6.34	52.01	34.32
1630.0	3260.0	4890.0	6520.0	15.86	6.54	54.12	35.21
1645.0	3290.0	4935.0	6580.0	15.75	6.56	57.20	35.48
1660.0	3320.0	4980.0	6640.0	15.66	6.60	59.33	35.70
1675.0	3350.0	5025.0	6700.0	15.47	6.75	61.29	36.24
1690.0	3380.0	5070.0	6760.0	15.47	6.44	61.64	36.31
1705.0	3410.0	5115.0	6820.0	15.38	6.32	64.28	36.77
1720.0	3440.0	5160.0	6880.0	15.30	6.16	63.78	36.91
1735.0	3470.0	5205.0	6940.0	15.18	6.12	64.36	36.99
1750.0	3500.0	5250.0	7000.0	14.90	6.23	61.94	37.44
1765.0	3530.0	5295.0	7060.0	14.79	6.15	61.37	37.78
1780.0	3560.0	5340.0	7120.0	14.86	5.89	60.80	37.97
1795.0	3590.0	5385.0	7180.0	14.88	5.68	60.95	38.34
1810.0	3620.0	5430.0	7240.0	14.77	5.66	60.85	38.84
1825.0	3650.0	5475.0	7300.0	14.60	5.63	60.78	39.28
1840.0	3680.0	5520.0	7360.0	14.54	5.57	61.89	39.93
1855.0	3710.0	5565.0	7420.0	14.79	5.36	60.30	39.45
1870.0	3740.0	5610.0	7480.0	14.92	5.28	60.54	39.22
1885.0	3770.0	5655.0	7540.0	14.75	5.47	62.93	39.45
1900.0	3800.0	5700.0	7600.0	14.71	5.37	63.38	40.30
1930.0	3860.0	5790.0	7720.0	15.18	4.83	66.10	40.68
1960.0	3920.0	5880.0	7840.0	15.03	4.83	68.23	40.53
1990.0	3980.0	5970.0	7960.0	15.46	4.43	62.40	40.33
2020.0	4040.0	6060.0	8080.0	15.14	4.10	61.30	42.90
2050.0	4100.0	6150.0	8200.0	15.70	3.31	58.82	43.14
2080.0	4160.0	6240.0	8320.0	15.49	3.30	51.82	42.63
2110.0	4220.0	6330.0	8440.0	15.64	2.88	50.81	45.43
2140.0	4280.0	6420.0	8560.0	15.91	2.49	49.41	47.18
2170.0	4340.0	6510.0	8680.0	16.60	1.98	45.40	43.30
2200.0	4400.0	6600.0	8800.0	16.28	2.35	49.05	49.68
2220.0	4440.0	6660.0	8880.0	16.48	2.15	48.18	47.14
2240.0	4480.0	6720.0	8960.0	16.91	1.65	45.73	47.10
2260.0	4520.0	6780.0	9040.0	16.90	1.56	46.14	45.68
2280.0	4560.0	6840.0	9120.0	16.82	1.56	45.92	42.24
2300.0	4600.0	6900.0	9200.0	16.92	1.28	44.10	38.91

\* Harmonic Output below power level of X3 Output.



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# Frequency Multiplier (Tripler)

# RMK-3-662+

## Typical Performance Data

Test Conditions: RF Input Power = 13 dBm @ +25°C

FREQUENCY (MHz)				CONVERSION LOSS (dB)	HARMONIC OUTPUT* (-dBc)		
X1 OUTPUT	X2 OUTPUT	X3 OUTPUT	X4 OUTPUT	X3 OUTPUT	X1 OUTPUT	X2 OUTPUT	X4 OUTPUT
1500.0	3000.0	4500.0	6000.0	17.67	8.23	43.26	33.84
1520.0	3040.0	4560.0	6080.0	17.47	8.09	45.08	33.82
1540.0	3080.0	4620.0	6160.0	16.99	8.55	47.88	34.26
1560.0	3120.0	4680.0	6240.0	16.77	8.74	52.06	34.66
1580.0	3160.0	4740.0	6320.0	16.49	8.89	53.71	34.73
1600.0	3200.0	4800.0	6400.0	16.25	9.02	53.78	35.24
1615.0	3230.0	4845.0	6460.0	15.94	9.21	56.16	35.24
1630.0	3260.0	4890.0	6520.0	15.68	9.31	61.96	35.76
1645.0	3290.0	4935.0	6580.0	15.67	9.23	64.00	36.04
1660.0	3320.0	4980.0	6640.0	15.54	9.32	70.21	36.18
1675.0	3350.0	5025.0	6700.0	15.32	9.45	64.78	36.31
1690.0	3380.0	5070.0	6760.0	15.28	9.17	69.99	36.53
1705.0	3410.0	5115.0	6820.0	15.18	9.05	64.48	36.80
1720.0	3440.0	5160.0	6880.0	15.02	8.94	67.57	36.96
1735.0	3470.0	5205.0	6940.0	14.88	8.89	65.52	36.93
1750.0	3500.0	5250.0	7000.0	14.78	8.82	60.59	36.94
1765.0	3530.0	5295.0	7060.0	14.79	8.62	61.25	36.87
1780.0	3560.0	5340.0	7120.0	14.81	8.42	64.45	37.08
1795.0	3590.0	5385.0	7180.0	14.81	8.21	63.48	37.02
1810.0	3620.0	5430.0	7240.0	14.65	8.24	68.23	37.33
1825.0	3650.0	5475.0	7300.0	14.64	8.06	64.28	37.62
1840.0	3680.0	5520.0	7360.0	14.71	7.88	63.63	37.86
1855.0	3710.0	5565.0	7420.0	14.94	7.69	65.76	37.46
1870.0	3740.0	5610.0	7480.0	15.12	7.55	64.81	37.19
1885.0	3770.0	5655.0	7540.0	15.05	7.64	72.59	37.41
1900.0	3800.0	5700.0	7600.0	14.93	7.59	71.28	37.81
1930.0	3860.0	5790.0	7720.0	15.20	7.26	66.83	38.05
1960.0	3920.0	5880.0	7840.0	15.20	7.07	62.14	37.68
1990.0	3980.0	5970.0	7960.0	15.46	6.87	59.09	37.56
2020.0	4040.0	6060.0	8080.0	15.32	6.38	57.58	39.49
2050.0	4100.0	6150.0	8200.0	15.86	5.52	60.91	39.19
2080.0	4160.0	6240.0	8320.0	15.72	5.45	59.29	40.91
2110.0	4220.0	6330.0	8440.0	15.88	4.98	59.55	44.08
2140.0	4280.0	6420.0	8560.0	16.31	4.49	53.01	47.47
2170.0	4340.0	6510.0	8680.0	16.80	4.17	50.81	44.21
2200.0	4400.0	6600.0	8800.0	16.49	4.49	42.88	40.10
2220.0	4440.0	6660.0	8880.0	16.78	4.21	41.22	37.50
2240.0	4480.0	6720.0	8960.0	17.04	3.86	39.25	35.69
2260.0	4520.0	6780.0	9040.0	17.11	3.72	37.58	35.29
2280.0	4560.0	6840.0	9120.0	17.18	3.66	35.26	34.35
2300.0	4600.0	6900.0	9200.0	17.25	3.35	34.59	34.40

\* Harmonic Output below power level of X3 Output.



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# Frequency Multiplier (Tripler)

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## Typical Performance Data

Test Conditions: RF Input Power = 13 dBm @ -40°C

FREQUENCY (MHz)				CONVERSION LOSS (dB)	HARMONIC OUTPUT* (-dBc)		
X1 OUTPUT	X2 OUTPUT	X3 OUTPUT	X4 OUTPUT	X3 OUTPUT	X1 OUTPUT	X2 OUTPUT	X4 OUTPUT
1500.0	3000.0	4500.0	6000.0	17.17	8.06	40.66	32.27
1520.0	3040.0	4560.0	6080.0	16.98	7.96	41.67	32.10
1540.0	3080.0	4620.0	6160.0	16.39	8.41	44.45	32.68
1560.0	3120.0	4680.0	6240.0	15.81	9.05	49.14	33.86
1580.0	3160.0	4740.0	6320.0	16.13	8.66	49.63	33.19
1600.0	3200.0	4800.0	6400.0	15.84	8.81	49.97	33.75
1615.0	3230.0	4845.0	6460.0	15.47	9.04	53.06	34.50
1630.0	3260.0	4890.0	6520.0	15.21	9.20	56.05	35.25
1645.0	3290.0	4935.0	6580.0	15.21	9.09	58.78	35.40
1660.0	3320.0	4980.0	6640.0	15.05	9.20	61.34	35.61
1675.0	3350.0	5025.0	6700.0	14.80	9.37	62.42	36.16
1690.0	3380.0	5070.0	6760.0	14.75	9.13	65.17	36.26
1705.0	3410.0	5115.0	6820.0	14.64	9.00	69.44	36.91
1720.0	3440.0	5160.0	6880.0	14.51	8.86	71.84	37.17
1735.0	3470.0	5205.0	6940.0	14.28	8.92	65.35	37.39
1750.0	3500.0	5250.0	7000.0	14.18	8.81	65.23	37.25
1765.0	3530.0	5295.0	7060.0	14.15	8.66	64.43	37.31
1780.0	3560.0	5340.0	7120.0	14.16	8.45	62.66	37.33
1795.0	3590.0	5385.0	7180.0	14.08	8.31	63.45	37.83
1810.0	3620.0	5430.0	7240.0	14.03	8.24	63.28	37.89
1825.0	3650.0	5475.0	7300.0	13.95	8.14	61.89	38.15
1840.0	3680.0	5520.0	7360.0	14.00	7.98	61.67	38.41
1855.0	3710.0	5565.0	7420.0	14.23	7.79	60.89	38.04
1870.0	3740.0	5610.0	7480.0	14.35	7.70	61.62	37.77
1885.0	3770.0	5655.0	7540.0	14.22	7.81	63.14	37.76
1900.0	3800.0	5700.0	7600.0	14.13	7.78	66.45	38.31
1930.0	3860.0	5790.0	7720.0	14.46	7.33	58.98	38.73
1960.0	3920.0	5880.0	7840.0	14.43	7.17	68.03	37.88
1990.0	3980.0	5970.0	7960.0	14.74	6.87	65.09	37.38
2020.0	4040.0	6060.0	8080.0	14.52	6.46	60.94	38.77
2050.0	4100.0	6150.0	8200.0	15.01	5.65	55.21	37.90
2080.0	4160.0	6240.0	8320.0	14.79	5.68	49.06	36.47
2110.0	4220.0	6330.0	8440.0	15.00	5.19	52.24	39.50
2140.0	4280.0	6420.0	8560.0	15.46	4.68	51.43	40.34
2170.0	4340.0	6510.0	8680.0	15.97	4.32	48.38	40.71
2200.0	4400.0	6600.0	8800.0	15.61	4.68	67.62	48.08
2220.0	4440.0	6660.0	8880.0	15.98	4.31	52.92	42.07
2240.0	4480.0	6720.0	8960.0	16.26	3.95	53.80	40.24
2260.0	4520.0	6780.0	9040.0	16.24	3.85	40.38	38.95
2280.0	4560.0	6840.0	9120.0	16.38	3.61	37.82	34.76
2300.0	4600.0	6900.0	9200.0	16.45	3.38	35.94	33.85

\* Harmonic Output below power level of X3 Output.



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# Frequency Multiplier (Tripler)

# RMK-3-662+

## Typical Performance Data

Test Conditions: RF Input Power = 13 dBm @ +85°C

FREQUENCY (MHz)				CONVERSION LOSS (dB)	HARMONIC OUTPUT* (-dBc)		
X1 OUTPUT	X2 OUTPUT	X3 OUTPUT	X4 OUTPUT	X3 OUTPUT	X1 OUTPUT	X2 OUTPUT	X4 OUTPUT
1500.0	3000.0	4500.0	6000.0	18.41	8.06	45.28	36.08
1520.0	3040.0	4560.0	6080.0	18.18	7.96	48.24	35.34
1540.0	3080.0	4620.0	6160.0	17.61	8.38	50.44	35.33
1560.0	3120.0	4680.0	6240.0	17.08	9.05	55.30	35.53
1580.0	3160.0	4740.0	6320.0	17.35	8.61	55.25	35.13
1600.0	3200.0	4800.0	6400.0	17.19	8.62	54.71	35.36
1615.0	3230.0	4845.0	6460.0	16.72	8.93	58.68	35.30
1630.0	3260.0	4890.0	6520.0	16.47	9.08	63.91	35.52
1645.0	3290.0	4935.0	6580.0	16.47	9.01	66.45	36.05
1660.0	3320.0	4980.0	6640.0	16.35	9.07	69.04	36.11
1675.0	3350.0	5025.0	6700.0	16.10	9.26	67.49	36.18
1690.0	3380.0	5070.0	6760.0	16.11	8.94	66.11	35.89
1705.0	3410.0	5115.0	6820.0	16.01	8.84	70.44	36.37
1720.0	3440.0	5160.0	6880.0	15.88	8.74	64.91	36.73
1735.0	3470.0	5205.0	6940.0	15.72	8.71	65.17	36.43
1750.0	3500.0	5250.0	7000.0	15.62	8.60	63.02	35.96
1765.0	3530.0	5295.0	7060.0	15.62	8.38	66.29	36.05
1780.0	3560.0	5340.0	7120.0	15.69	8.14	68.52	36.20
1795.0	3590.0	5385.0	7180.0	15.66	7.96	63.99	36.50
1810.0	3620.0	5430.0	7240.0	15.58	7.90	67.00	36.51
1825.0	3650.0	5475.0	7300.0	15.57	7.72	71.22	37.00
1840.0	3680.0	5520.0	7360.0	15.65	7.54	82.19	37.32
1855.0	3710.0	5565.0	7420.0	15.81	7.43	81.07	37.06
1870.0	3740.0	5610.0	7480.0	15.93	7.33	70.45	36.84
1885.0	3770.0	5655.0	7540.0	15.82	7.45	64.28	37.00
1900.0	3800.0	5700.0	7600.0	15.84	7.29	63.81	37.80
1930.0	3860.0	5790.0	7720.0	16.20	6.84	67.26	38.54
1960.0	3920.0	5880.0	7840.0	16.23	6.64	59.88	39.17
1990.0	3980.0	5970.0	7960.0	16.53	6.41	56.85	38.52
2020.0	4040.0	6060.0	8080.0	16.37	5.95	72.66	45.18
2050.0	4100.0	6150.0	8200.0	16.90	5.13	63.97	47.68
2080.0	4160.0	6240.0	8320.0	16.79	5.00	51.37	55.10
2110.0	4220.0	6330.0	8440.0	16.95	4.56	47.38	43.89
2140.0	4280.0	6420.0	8560.0	17.39	4.01	43.52	39.54
2170.0	4340.0	6510.0	8680.0	17.92	3.67	42.07	39.02
2200.0	4400.0	6600.0	8800.0	17.60	4.02	39.11	37.34
2220.0	4440.0	6660.0	8880.0	17.87	3.78	39.10	37.60
2240.0	4480.0	6720.0	8960.0	18.13	3.44	39.55	37.07
2260.0	4520.0	6780.0	9040.0	18.15	3.32	36.27	37.40
2280.0	4560.0	6840.0	9120.0	18.29	3.11	35.71	37.73
2300.0	4600.0	6900.0	9200.0	18.32	2.91	35.74	37.83

\* Harmonic Output below power level of X3 Output.



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