

# Frequency Multiplier (Doublers)

# ZX90-2-24-S+

## Typical Performance Data

Test Conditions: RF Input Power = 11 dBm @ +25°C

FREQUENCY (GHz)				CONVERSION LOSS (dB)	HARMONIC OUTPUT* (-dBc)		
X1 OUTPUT	X2 OUTPUT	X3 OUTPUT	X4 OUTPUT		X2 OUTPUT	X3 OUTPUT	X4 OUTPUT
5.0	10.0	15.0	20.0	10.69	29.16	39.23	21.67
5.1	10.2	15.3	20.4	11.05	28.91	46.83	21.20
5.2	10.4	15.6	20.8	10.98	28.81	38.93	22.16
5.3	10.6	15.9	21.2	10.95	28.17	37.05	19.94
5.5	11.0	16.5	22.0	10.96	28.38	31.98	18.83
5.6	11.2	16.8	22.4	10.90	27.60	47.45	20.93
5.7	11.4	17.1	22.8	11.10	28.10	45.04	21.48
5.8	11.6	17.4	23.2	10.75	28.40	36.86	20.47
5.9	11.8	17.7	23.6	10.28	28.39	33.47	19.91
6.0	12.0	18.0	24.0	11.31	28.01	35.17	25.36
6.1	12.2	18.3	24.4	11.45	27.63	32.84	21.77
6.2	12.4	18.6	24.8	11.43	27.49	33.51	19.48
6.3	12.6	18.9	25.2	11.55	28.72	33.65	21.98
6.4	12.8	19.2	25.6	12.40	26.76	30.68	21.89
6.5	13.0	19.5	26.0	14.04	23.33	29.88	21.31
6.6	13.2	19.8	26.4	12.54	25.91	33.02	25.54
6.7	13.4	20.1	26.8	13.49	25.74	32.04	29.31
6.8	13.6	20.4	27.2	13.22	26.88	38.08	35.36
6.9	13.8	20.7	27.6	13.04	25.96	35.55	36.21
7.0	14.0	21.0	28.0	12.93	30.46	31.52	33.92
7.1	14.2	21.3	28.4	11.79	29.33	33.34	36.89
7.2	14.4	21.6	28.8	14.00	27.01	35.13	43.75
7.3	14.6	21.9	29.2	12.37	27.59	38.02	43.88
7.4	14.8	22.2	29.6	11.27	27.23	41.11	54.20
7.5	15.0	22.5	30.0	13.05	21.92	38.89	58.25
7.6	15.2	22.8	30.4	12.87	24.53	35.67	43.01
7.7	15.4	23.1	30.8	12.31	20.98	42.99	43.32
7.8	15.6	23.4	31.2	11.44	29.13	40.16	47.43
7.9	15.8	23.7	31.6	11.06	27.60	32.17	44.83
8.0	16.0	24.0	32.0	12.48	35.43	30.39	41.92
8.1	16.2	24.3	32.4	11.94	34.36	30.18	43.43
8.2	16.4	24.6	32.8	12.35	32.40	23.52	51.65
8.3	16.6	24.9	33.2	12.76	32.05	29.48	62.42
8.4	16.8	25.2	33.6	11.22	35.13	30.53	51.55
8.5	17.0	25.5	34.0	12.01	34.47	36.62	49.55
8.6	17.2	25.8	34.4	12.39	36.93	44.77	40.62
8.7	17.4	26.1	34.8	12.39	35.91	31.92	42.06
8.8	17.6	26.4	35.2	12.62	35.73	30.29	41.82
8.9	17.8	26.7	35.6	12.32	34.02	33.81	51.10
9.0	18.0	27.0	36.0	12.80	30.75	33.21	52.55
9.1	18.2	27.3	36.4	11.07	34.32	39.27	57.90
9.2	18.4	27.6	36.8	11.43	32.40	41.34	48.22
9.3	18.6	27.9	37.2	11.49	36.71	33.08	45.07
9.4	18.8	28.2	37.6	10.26	34.95	33.62	43.46
9.5	19.0	28.5	38.0	10.48	41.52	41.96	54.45
9.6	19.2	28.8	38.4	10.84	40.89	52.06	59.80
9.7	19.4	29.1	38.8	10.26	40.76	31.33	64.40
9.8	19.6	29.4	39.2	10.04	40.01	29.91	54.64
9.9	19.8	29.7	39.6	12.83	34.22	28.66	52.93
10.0	20.0	30.0	40.0	11.14	37.66	32.54	36.85

\* Harmonic Output below power level of X2 Output.



# Frequency Multiplier (Doublers)

# ZX90-2-24-S+

## Typical Performance Data

Test Conditions: RF Input Power = 11 dBm @ -40°C

FREQUENCY (GHz)				CONVERSION LOSS (dB)	HARMONIC OUTPUT* (-dBc)		
X1 OUTPUT	X2 OUTPUT	X3 OUTPUT	X4 OUTPUT		X2 OUTPUT	X1 OUTPUT	X3 OUTPUT
5.0	10.0	15.0	20.0	10.88	28.21	40.38	21.40
5.1	10.2	15.3	20.4	10.63	28.53	38.50	21.14
5.2	10.4	15.6	20.8	10.36	28.81	43.59	21.48
5.3	10.6	15.9	21.2	10.28	28.21	36.81	19.19
5.5	11.0	16.5	22.0	10.68	27.63	31.25	17.92
5.6	11.2	16.8	22.4	10.13	27.19	46.95	21.98
5.7	11.4	17.1	22.8	10.64	27.56	43.56	21.18
5.8	11.6	17.4	23.2	10.75	27.47	36.01	19.09
5.9	11.8	17.7	23.6	10.07	27.59	32.28	18.60
6.0	12.0	18.0	24.0	10.78	27.59	35.55	24.43
6.1	12.2	18.3	24.4	10.98	26.92	33.51	21.09
6.2	12.4	18.6	24.8	11.03	26.54	33.80	19.21
6.3	12.6	18.9	25.2	11.46	27.37	32.65	20.30
6.4	12.8	19.2	25.6	11.96	25.98	30.46	21.75
6.5	13.0	19.5	26.0	13.03	23.99	30.73	20.65
6.6	13.2	19.8	26.4	12.52	24.67	32.28	24.13
6.7	13.4	20.1	26.8	13.39	24.45	31.27	28.26
6.8	13.6	20.4	27.2	12.87	26.19	36.87	34.50
6.9	13.8	20.7	27.6	12.69	24.81	34.98	36.53
7.0	14.0	21.0	28.0	12.99	28.88	30.06	34.77
7.1	14.2	21.3	28.4	12.01	27.96	32.27	37.20
7.2	14.4	21.6	28.8	14.00	25.44	31.89	43.70
7.3	14.6	21.9	29.2	12.87	25.43	36.87	41.99
7.4	14.8	22.2	29.6	11.13	26.73	40.31	66.61
7.5	15.0	22.5	30.0	13.25	20.63	40.37	47.89
7.6	15.2	22.8	30.4	12.34	24.71	34.72	43.28
7.7	15.4	23.1	30.8	11.98	20.23	36.88	45.10
7.8	15.6	23.4	31.2	11.83	25.03	42.26	47.49
7.9	15.8	23.7	31.6	10.95	25.97	32.85	45.05
8.0	16.0	24.0	32.0	12.28	28.12	29.51	40.86
8.1	16.2	24.3	32.4	12.04	31.44	28.13	38.16
8.2	16.4	24.6	32.8	12.14	36.72	20.59	53.21
8.3	16.6	24.9	33.2	12.95	31.23	26.70	63.85
8.4	16.8	25.2	33.6	11.22	37.26	28.07	50.82
8.5	17.0	25.5	34.0	11.32	30.74	33.70	50.58
8.6	17.2	25.8	34.4	12.49	37.09	42.51	42.83
8.7	17.4	26.1	34.8	12.64	33.78	30.30	41.84
8.8	17.6	26.4	35.2	12.53	36.68	26.80	41.14
8.9	17.8	26.7	35.6	12.65	34.56	29.93	49.99
9.0	18.0	27.0	36.0	13.09	29.82	30.63	54.43
9.1	18.2	27.3	36.4	11.24	33.42	36.55	52.32
9.2	18.4	27.6	36.8	11.20	32.06	42.44	49.38
9.3	18.6	27.9	37.2	11.70	36.53	32.18	47.33
9.4	18.8	28.2	37.6	9.87	35.41	31.98	47.21
9.5	19.0	28.5	38.0	10.72	40.41	37.17	55.71
9.6	19.2	28.8	38.4	10.70	43.00	46.97	61.94
9.7	19.4	29.1	38.8	9.57	38.51	32.25	65.56
9.8	19.6	29.4	39.2	9.36	41.32	30.20	58.69
9.9	19.8	29.7	39.6	12.71	34.97	28.45	60.94
10.0	20.0	30.0	40.0	11.22	36.70	30.07	39.28

\* Harmonic Output below power level of X2 Output.



# Frequency Multiplier (Doublers)

# ZX90-2-24-S+

## Typical Performance Data

Test Conditions: RF Input Power = 11 dBm @ +85°C

FREQUENCY (GHz)				CONVERSION LOSS (dB)	HARMONIC OUTPUT* (-dBc)		
X1 OUTPUT	X2 OUTPUT	X3 OUTPUT	X4 OUTPUT		X2 OUTPUT	X1 OUTPUT	X3 OUTPUT
5.0	10.0	15.0	20.0	12.09	28.04	37.05	17.86
5.1	10.2	15.3	20.4	12.60	27.80	50.68	20.51
5.2	10.4	15.6	20.8	10.71	29.31	36.42	23.25
5.3	10.6	15.9	21.2	11.04	28.42	36.03	20.01
5.5	11.0	16.5	22.0	10.88	28.61	32.97	19.94
5.6	11.2	16.8	22.4	10.76	28.45	48.37	21.07
5.7	11.4	17.1	22.8	10.68	28.84	42.55	21.35
5.8	11.6	17.4	23.2	10.82	28.55	36.67	21.11
5.9	11.8	17.7	23.6	10.55	28.85	34.97	20.01
6.0	12.0	18.0	24.0	10.93	28.71	35.44	26.05
6.1	12.2	18.3	24.4	11.34	27.96	33.31	21.03
6.2	12.4	18.6	24.8	11.64	27.75	33.80	19.42
6.3	12.6	18.9	25.2	11.60	29.00	34.23	21.62
6.4	12.8	19.2	25.6	12.44	27.19	31.57	21.75
6.5	13.0	19.5	26.0	13.78	23.71	30.21	21.54
6.6	13.2	19.8	26.4	12.61	26.69	33.23	25.55
6.7	13.4	20.1	26.8	13.49	26.31	32.82	30.14
6.8	13.6	20.4	27.2	12.89	27.29	39.31	36.60
6.9	13.8	20.7	27.6	13.04	26.89	36.52	36.51
7.0	14.0	21.0	28.0	12.67	31.05	32.13	34.10
7.1	14.2	21.3	28.4	12.03	28.85	33.13	36.41
7.2	14.4	21.6	28.8	13.71	27.94	36.05	43.63
7.3	14.6	21.9	29.2	11.91	28.64	38.15	44.45
7.4	14.8	22.2	29.6	11.49	27.14	40.55	49.35
7.5	15.0	22.5	30.0	12.92	22.70	37.74	47.98
7.6	15.2	22.8	30.4	12.59	25.31	36.16	43.49
7.7	15.4	23.1	30.8	12.12	22.30	42.41	43.21
7.8	15.6	23.4	31.2	11.43	31.05	39.05	47.15
7.9	15.8	23.7	31.6	11.17	29.06	33.06	43.97
8.0	16.0	24.0	32.0	12.37	41.21	31.53	42.36
8.1	16.2	24.3	32.4	12.01	33.77	30.02	45.68
8.2	16.4	24.6	32.8	12.34	31.71	25.15	50.06
8.3	16.6	24.9	33.2	12.90	33.31	30.22	59.47
8.4	16.8	25.2	33.6	11.41	35.19	31.13	51.35
8.5	17.0	25.5	34.0	12.18	37.29	38.06	46.75
8.6	17.2	25.8	34.4	12.51	37.12	41.70	39.94
8.7	17.4	26.1	34.8	12.52	35.90	31.97	41.92
8.8	17.6	26.4	35.2	12.53	34.58	31.74	43.84
8.9	17.8	26.7	35.6	12.35	33.93	35.03	48.45
9.0	18.0	27.0	36.0	12.76	31.14	35.25	52.88
9.1	18.2	27.3	36.4	11.18	34.19	41.46	59.07
9.2	18.4	27.6	36.8	11.47	33.20	40.53	47.21
9.3	18.6	27.9	37.2	11.43	38.36	34.48	43.84
9.4	18.8	28.2	37.6	10.37	36.59	35.04	42.59
9.5	19.0	28.5	38.0	10.40	42.85	44.45	52.79
9.6	19.2	28.8	38.4	11.05	44.79	52.18	57.51
9.7	19.4	29.1	38.8	10.48	43.57	30.63	65.29
9.8	19.6	29.4	39.2	10.61	41.83	29.52	50.65
9.9	19.8	29.7	39.6	13.06	38.31	29.39	50.52
10.0	20.0	30.0	40.0	11.56	38.05	33.43	35.66

\* Harmonic Output below power level of X2 Output.



# Frequency Multiplier (Doublers)

# ZX90-2-24-S+

## Typical Performance Data

Test Conditions: RF Input Power = 16 dBm @ +25°C

FREQUENCY (GHz)				CONVERSION LOSS (dB)	HARMONIC OUTPUT* (-dBc)		
X1 OUTPUT	X2 OUTPUT	X3 OUTPUT	X4 OUTPUT		X2 OUTPUT	X1 OUTPUT	X3 OUTPUT
5.0	10.0	15.0	20.0	10.80	32.41	46.22	31.60
5.1	10.2	15.3	20.4	12.38	31.64	33.28	26.61
5.2	10.4	15.6	20.8	11.39	32.06	32.61	27.74
5.3	10.6	15.9	21.2	10.53	32.90	40.02	23.53
5.5	11.0	16.5	22.0	11.19	32.24	33.02	19.46
5.6	11.2	16.8	22.4	10.25	32.72	33.90	20.80
5.7	11.4	17.1	22.8	10.38	32.46	32.23	22.36
5.8	11.6	17.4	23.2	10.09	32.90	36.28	22.51
5.9	11.8	17.7	23.6	9.49	33.03	35.94	26.36
6.0	12.0	18.0	24.0	10.57	33.02	40.98	33.64
6.1	12.2	18.3	24.4	10.30	32.28	35.88	36.76
6.2	12.4	18.6	24.8	10.59	32.46	35.89	26.57
6.3	12.6	18.9	25.2	11.14	33.01	35.58	27.42
6.4	12.8	19.2	25.6	11.36	31.59	33.99	24.65
6.5	13.0	19.5	26.0	12.70	28.18	36.29	22.69
6.6	13.2	19.8	26.4	11.63	31.71	39.62	24.92
6.7	13.4	20.1	26.8	12.25	32.69	35.40	27.82
6.8	13.6	20.4	27.2	11.95	33.49	37.45	33.90
6.9	13.8	20.7	27.6	11.58	33.86	38.88	32.68
7.0	14.0	21.0	28.0	11.65	25.97	24.18	32.24
7.1	14.2	21.3	28.4	10.66	30.28	28.49	31.32
7.2	14.4	21.6	28.8	11.50	29.41	30.25	36.78
7.3	14.6	21.9	29.2	10.90	33.64	32.65	36.81
7.4	14.8	22.2	29.6	9.94	32.74	34.43	36.94
7.5	15.0	22.5	30.0	10.69	29.31	33.37	34.74
7.6	15.2	22.8	30.4	10.12	33.37	38.90	41.67
7.7	15.4	23.1	30.8	10.00	28.07	36.96	41.06
7.8	15.6	23.4	31.2	9.73	35.47	33.39	44.77
7.9	15.8	23.7	31.6	9.25	35.93	34.44	45.88
8.0	16.0	24.0	32.0	10.54	35.18	29.43	44.03
8.1	16.2	24.3	32.4	10.49	45.01	28.63	45.72
8.2	16.4	24.6	32.8	9.80	36.54	34.33	46.62
8.3	16.6	24.9	33.2	10.24	38.13	38.02	51.31
8.4	16.8	25.2	33.6	10.30	31.83	34.19	47.19
8.5	17.0	25.5	34.0	11.62	33.50	35.88	40.13
8.6	17.2	25.8	34.4	11.96	33.76	30.56	36.55
8.7	17.4	26.1	34.8	11.39	33.64	32.49	41.52
8.8	17.6	26.4	35.2	11.27	29.00	35.24	51.92
8.9	17.8	26.7	35.6	10.00	32.94	41.77	55.17
9.0	18.0	27.0	36.0	10.26	31.05	43.40	49.41
9.1	18.2	27.3	36.4	9.85	33.69	47.59	55.52
9.2	18.4	27.6	36.8	9.81	34.58	54.49	44.86
9.3	18.6	27.9	37.2	9.58	38.20	51.58	41.62
9.4	18.8	28.2	37.6	9.33	33.51	41.41	40.96
9.5	19.0	28.5	38.0	9.25	39.04	44.28	50.32
9.6	19.2	28.8	38.4	10.20	38.15	39.36	59.19
9.7	19.4	29.1	38.8	10.88	37.61	26.04	60.61
9.8	19.6	29.4	39.2	10.80	37.03	24.20	51.42
9.9	19.8	29.7	39.6	13.06	35.88	23.17	65.04
10.0	20.0	30.0	40.0	11.96	39.16	26.95	42.95

\* Harmonic Output below power level of X2 Output.



# Frequency Multiplier (Doublers)

# ZX90-2-24-S+

## Typical Performance Data

Test Conditions: RF Input Power = 16 dBm @ -40°C

FREQUENCY (GHz)				CONVERSION LOSS (dB)	HARMONIC OUTPUT* (-dBc)		
X1 OUTPUT	X2 OUTPUT	X3 OUTPUT	X4 OUTPUT		X2 OUTPUT	X3 OUTPUT	X4 OUTPUT
5.0	10.0	15.0	20.0	10.18	32.58	51.18	24.60
5.1	10.2	15.3	20.4	10.81	32.55	35.56	30.61
5.2	10.4	15.6	20.8	11.08	31.84	32.61	27.77
5.3	10.6	15.9	21.2	10.10	32.66	40.19	24.14
5.5	11.0	16.5	22.0	10.60	32.58	33.30	21.10
5.6	11.2	16.8	22.4	9.62	32.43	33.74	22.00
5.7	11.4	17.1	22.8	10.02	32.55	32.44	22.05
5.8	11.6	17.4	23.2	9.88	32.74	33.55	20.70
5.9	11.8	17.7	23.6	8.86	32.66	34.10	20.19
6.0	12.0	18.0	24.0	10.16	33.04	41.45	38.46
6.1	12.2	18.3	24.4	9.95	32.12	35.68	33.38
6.2	12.4	18.6	24.8	9.63	32.82	36.65	28.09
6.3	12.6	18.9	25.2	10.59	32.99	34.39	25.93
6.4	12.8	19.2	25.6	10.78	31.59	32.86	25.07
6.5	13.0	19.5	26.0	11.98	29.85	42.91	21.86
6.6	13.2	19.8	26.4	11.31	30.64	39.11	23.56
6.7	13.4	20.1	26.8	11.64	32.84	33.87	26.51
6.8	13.6	20.4	27.2	11.88	33.72	35.19	31.14
6.9	13.8	20.7	27.6	10.97	33.78	40.05	31.65
7.0	14.0	21.0	28.0	11.25	24.47	23.21	32.07
7.1	14.2	21.3	28.4	10.26	30.37	28.11	31.19
7.2	14.4	21.6	28.8	10.91	27.87	28.41	36.23
7.3	14.6	21.9	29.2	10.92	33.67	32.09	35.16
7.4	14.8	22.2	29.6	9.21	32.92	32.65	37.79
7.5	15.0	22.5	30.0	10.14	29.20	34.63	35.00
7.6	15.2	22.8	30.4	9.69	33.22	36.56	38.83
7.7	15.4	23.1	30.8	9.60	26.96	46.59	39.19
7.8	15.6	23.4	31.2	9.48	34.13	32.34	40.50
7.9	15.8	23.7	31.6	8.51	35.92	33.30	44.26
8.0	16.0	24.0	32.0	9.93	33.85	30.03	38.18
8.1	16.2	24.3	32.4	10.11	44.59	30.34	41.45
8.2	16.4	24.6	32.8	9.31	36.23	28.08	46.31
8.3	16.6	24.9	33.2	9.57	36.37	35.33	51.38
8.4	16.8	25.2	33.6	9.74	32.33	34.28	52.49
8.5	17.0	25.5	34.0	10.65	34.10	33.89	42.76
8.6	17.2	25.8	34.4	11.59	33.34	31.00	35.85
8.7	17.4	26.1	34.8	11.27	34.34	30.02	37.69
8.8	17.6	26.4	35.2	11.03	30.07	31.88	46.37
8.9	17.8	26.7	35.6	9.69	30.48	39.19	57.97
9.0	18.0	27.0	36.0	9.89	29.35	42.31	48.65
9.1	18.2	27.3	36.4	9.52	31.56	48.72	53.38
9.2	18.4	27.6	36.8	9.41	30.27	49.19	45.18
9.3	18.6	27.9	37.2	9.32	34.13	44.63	40.91
9.4	18.8	28.2	37.6	8.68	32.77	41.37	41.58
9.5	19.0	28.5	38.0	8.79	35.74	42.14	46.61
9.6	19.2	28.8	38.4	9.20	37.22	39.28	58.08
9.7	19.4	29.1	38.8	10.39	35.90	25.93	62.61
9.8	19.6	29.4	39.2	9.86	37.04	24.76	52.47
9.9	19.8	29.7	39.6	12.28	33.94	22.43	61.71
10.0	20.0	30.0	40.0	11.75	36.95	24.80	47.01

\* Harmonic Output below power level of X2 Output.



# Frequency Multiplier (Doublers)

# ZX90-2-24-S+

## Typical Performance Data

Test Conditions: RF Input Power = 16 dBm @ +85°C

FREQUENCY (GHz)				CONVERSION LOSS (dB)	HARMONIC OUTPUT* (-dBc)		
X1 OUTPUT	X2 OUTPUT	X3 OUTPUT	X4 OUTPUT		X2 OUTPUT	X1 OUTPUT	X3 OUTPUT
5.0	10.0	15.0	20.0	15.13	28.85	45.66	18.95
5.1	10.2	15.3	20.4	16.98	27.29	27.85	18.74
5.2	10.4	15.6	20.8	13.16	30.34	32.64	27.39
5.3	10.6	15.9	21.2	12.54	31.51	37.78	21.33
5.5	11.0	16.5	22.0	11.71	31.90	32.16	19.38
5.6	11.2	16.8	22.4	11.06	32.39	33.34	20.75
5.7	11.4	17.1	22.8	10.86	32.21	32.27	21.54
5.8	11.6	17.4	23.2	10.53	32.87	37.82	23.60
5.9	11.8	17.7	23.6	10.11	32.90	36.77	31.57
6.0	12.0	18.0	24.0	10.84	32.93	40.24	30.86
6.1	12.2	18.3	24.4	10.76	32.39	36.11	32.42
6.2	12.4	18.6	24.8	11.19	32.12	35.96	26.43
6.3	12.6	18.9	25.2	11.58	32.85	36.72	27.57
6.4	12.8	19.2	25.6	11.91	31.53	34.85	24.94
6.5	13.0	19.5	26.0	13.23	27.40	33.54	23.55
6.6	13.2	19.8	26.4	12.07	32.05	38.30	26.08
6.7	13.4	20.1	26.8	12.66	32.62	35.93	29.17
6.8	13.6	20.4	27.2	12.21	33.28	39.17	35.09
6.9	13.8	20.7	27.6	12.10	33.52	38.66	33.73
7.0	14.0	21.0	28.0	12.04	27.25	25.81	32.64
7.1	14.2	21.3	28.4	11.21	30.18	28.71	31.93
7.2	14.4	21.6	28.8	12.06	30.56	31.78	36.69
7.3	14.6	21.9	29.2	11.22	33.24	32.75	37.87
7.4	14.8	22.2	29.6	10.64	32.51	35.11	36.58
7.5	15.0	22.5	30.0	11.25	29.32	32.73	34.48
7.6	15.2	22.8	30.4	10.62	32.51	40.14	42.68
7.7	15.4	23.1	30.8	10.50	29.09	35.17	42.42
7.8	15.6	23.4	31.2	10.31	35.96	34.78	47.65
7.9	15.8	23.7	31.6	10.02	34.22	34.42	43.23
8.0	16.0	24.0	32.0	11.32	35.72	29.17	44.90
8.1	16.2	24.3	32.4	11.19	47.05	28.63	46.24
8.2	16.4	24.6	32.8	10.58	37.27	43.81	44.93
8.3	16.6	24.9	33.2	11.10	37.66	39.06	50.73
8.4	16.8	25.2	33.6	11.20	32.14	35.01	45.04
8.5	17.0	25.5	34.0	12.58	33.20	37.54	38.19
8.6	17.2	25.8	34.4	12.32	32.26	31.30	38.67
8.7	17.4	26.1	34.8	11.69	31.61	34.01	42.51
8.8	17.6	26.4	35.2	11.61	27.79	38.11	68.01
8.9	17.8	26.7	35.6	10.51	30.52	43.76	52.94
9.0	18.0	27.0	36.0	10.85	28.90	44.74	48.90
9.1	18.2	27.3	36.4	10.37	32.11	49.85	57.80
9.2	18.4	27.6	36.8	10.40	30.54	56.45	44.45
9.3	18.6	27.9	37.2	10.19	34.71	51.39	42.14
9.4	18.8	28.2	37.6	10.24	32.63	42.43	41.47
9.5	19.0	28.5	38.0	10.08	36.51	45.47	52.22
9.6	19.2	28.8	38.4	11.43	36.99	39.33	60.37
9.7	19.4	29.1	38.8	11.69	39.72	25.26	56.73
9.8	19.6	29.4	39.2	12.20	34.52	23.22	51.73
9.9	19.8	29.7	39.6	13.83	37.46	25.03	56.92
10.0	20.0	30.0	40.0	12.95	42.83	28.14	39.31

\* Harmonic Output below power level of X2 Output.

