

## Typical Performance Data

TEST CONDITION: RF In = +12dBm

Frequency (MHz)				Temperature = -45°C			
				Conversion Loss (dB)	Harmonic Output* (-dBc)		
X1 Output	X2 Output	X3 Output	X4 Output	X3 Output	X1 Output	X2 Output	X4 Output
2000	4000	6000	8000	105.68	47.98	2.04	10.80
2500	5000	7500	10000	68.79	7.41	39.47	3.64
3000	6000	9000	12000	27.48	36.51	72.08	43.55
3300	6600	9900	13200	21.57	45.47	83.28	45.05
3500	7000	10500	14000	20.72	48.32	79.44	48.50
4000	8000	12000	16000	18.18	50.78	64.14	50.86
4500	9000	13500	18000	16.75	48.96	65.55	50.21
5000	10000	15000	20000	16.45	46.56	51.06	53.06
5500	11000	16500	22000	17.15	45.57	45.84	52.58
6000	12000	18000	24000	18.92	44.67	42.14	49.44
6500	13000	19500	26000	21.20	39.02	39.95	44.29
7000	14000	21000	28000	23.18	39.69	38.77	41.03
7400	14800	22200	29600	22.60	20.65	34.95	39.80
7500	15000	22500	30000	22.75	16.84	33.95	38.50
8000	16000	24000	32000	23.04	3.61	26.62	34.09

\* Harmonic Output below power level of X3 Output

Frequency (MHz)				Temperature = +25°C			
				Conversion Loss (dB)	Harmonic Output* (-dBc)		
X1 Output	X2 Output	X3 Output	X4 Output	X3 Output	X1 Output	X2 Output	X4 Output
2000	4000	6000	8000	100.27	42.05	7.99	15.63
2500	5000	7500	10000	61.52	0.18	41.88	9.42
3000	6000	9000	12000	25.79	38.77	84.02	51.33
3300	6600	9900	13200	21.00	46.41	77.74	50.62
3500	7000	10500	14000	20.19	48.92	89.56	50.36
4000	8000	12000	16000	18.03	50.19	66.52	49.41
4500	9000	13500	18000	16.75	48.72	66.21	54.90
5000	10000	15000	20000	16.47	46.51	52.02	56.87
5500	11000	16500	22000	17.02	45.68	47.29	55.27
6000	12000	18000	24000	18.41	44.86	43.54	51.93
6500	13000	19500	26000	20.23	40.10	41.39	46.73
7000	14000	21000	28000	22.12	38.80	40.96	42.84
7400	14800	22200	29600	22.28	20.92	38.58	40.97
7500	15000	22500	30000	22.42	17.22	38.01	40.19
8000	16000	24000	32000	23.47	3.50	30.83	37.19

\* Harmonic Output below power level of X3 Output

Frequency (MHz)				Temperature = +85°C			
				Conversion Loss (dB)	Harmonic Output* (-dBc)		
X1 Output	X2 Output	X3 Output	X4 Output	X3 Output	X1 Output	X2 Output	X4 Output
2000	4000	6000	8000	93.07	34.33	9.05	14.15
2500	5000	7500	10000	56.54	5.49	61.68	13.55
3000	6000	9000	12000	24.90	40.14	76.07	58.53
3300	6600	9900	13200	20.75	46.94	84.05	55.27
3500	7000	10500	14000	19.93	49.11	87.03	50.86
4000	8000	12000	16000	18.03	49.66	66.73	49.35
4500	9000	13500	18000	16.88	48.36	66.97	58.89
5000	10000	15000	20000	16.65	46.35	53.54	58.34
5500	11000	16500	22000	17.13	45.59	48.86	55.33
6000	12000	18000	24000	18.21	44.84	45.33	52.52
6500	13000	19500	26000	19.72	40.84	43.18	47.92
7000	14000	21000	28000	21.41	38.24	42.97	43.33
7400	14800	22200	29600	21.84	21.32	41.21	41.67
7500	15000	22500	30000	22.00	17.71	40.99	41.57
8000	16000	24000	32000	23.69	3.59	34.34	39.91

\* Harmonic Output below power level of X3 Output

## Typical Performance Data

TEST CONDITION: RF In = +15dBm

Frequency (MHz)				Temperature = -45°C			
				Conversion Loss (dB)	Harmonic Output* (-dBc)		
X1 Output	X2 Output	X3 Output	X4 Output	X3 Output	X1 Output	X2 Output	X4 Output
2000	4000	6000	8000	85.75	27.55	21.61	11.05
2500	5000	7500	10000	52.04	10.14	53.08	13.95
3000	6000	9000	12000	21.53	44.08	69.33	69.72
3300	6600	9900	13200	17.89	50.19	90.75	50.15
3500	7000	10500	14000	17.15	51.72	85.86	47.32
4000	8000	12000	16000	15.66	51.60	67.96	46.78
4500	9000	13500	18000	14.63	50.75	63.56	58.65
5000	10000	15000	20000	14.44	48.66	57.00	56.46
5500	11000	16500	22000	14.82	47.80	51.03	52.86
6000	12000	18000	24000	15.57	48.11	47.82	50.23
6500	13000	19500	26000	16.60	44.96	44.81	45.93
7000	14000	21000	28000	17.82	48.25	48.71	41.21
7400	14800	22200	29600	18.47	27.81	44.55	36.84
7500	15000	22500	30000	18.60	24.06	44.77	36.47
8000	16000	24000	32000	20.35	9.64	39.08	36.47

\* Harmonic Output below power level of X3 Output

Frequency (MHz)				Temperature = +25°C			
				Conversion Loss (dB)	Harmonic Output* (-dBc)		
X1 Output	X2 Output	X3 Output	X4 Output	X3 Output	X1 Output	X2 Output	X4 Output
2000	4000	6000	8000	82.99	24.10	28.94	7.09
2500	5000	7500	10000	50.46	12.20	54.28	17.80
3000	6000	9000	12000	21.98	44.02	72.01	57.31
3300	6600	9900	13200	18.44	49.57	85.40	55.80
3500	7000	10500	14000	17.61	50.91	86.22	50.32
4000	8000	12000	16000	16.15	50.70	67.59	47.66
4500	9000	13500	18000	15.26	49.90	62.09	60.84
5000	10000	15000	20000	15.28	47.79	58.71	55.63
5500	11000	16500	22000	15.70	46.98	52.32	52.13
6000	12000	18000	24000	16.36	47.19	49.29	49.97
6500	13000	19500	26000	17.33	44.30	46.24	45.95
7000	14000	21000	28000	18.54	45.09	48.52	41.39
7400	14800	22200	29600	19.26	26.72	46.21	38.00
7500	15000	22500	30000	19.28	23.17	47.25	37.99
8000	16000	24000	32000	21.20	8.86	43.86	38.30

\* Harmonic Output below power level of X3 Output

Frequency (MHz)				Temperature = +85°C			
				Conversion Loss (dB)	Harmonic Output* (-dBc)		
X1 Output	X2 Output	X3 Output	X4 Output	X3 Output	X1 Output	X2 Output	X4 Output
2000	4000	6000	8000	81.68	22.17	39.82	5.17
2500	5000	7500	10000	49.45	13.68	49.68	19.25
3000	6000	9000	12000	22.55	43.70	74.02	53.37
3300	6600	9900	13200	19.04	48.78	88.11	59.62
3500	7000	10500	14000	18.12	50.01	90.96	52.80
4000	8000	12000	16000	16.72	49.82	65.48	48.26
4500	9000	13500	18000	15.98	48.99	60.26	61.34
5000	10000	15000	20000	16.15	46.88	60.25	55.10
5500	11000	16500	22000	16.57	46.09	53.24	51.58
6000	12000	18000	24000	17.16	46.24	50.47	49.50
6500	13000	19500	26000	18.10	43.74	47.30	45.63
7000	14000	21000	28000	19.24	42.74	48.37	40.88
7400	14800	22200	29600	19.88	25.79	46.06	38.70
7500	15000	22500	30000	19.91	22.36	47.05	39.00
8000	16000	24000	32000	21.95	8.17	45.53	39.64

\* Harmonic Output below power level of X3 Output

## Typical Performance Data

TEST CONDITION: RF In = +18dBm

Frequency (MHz)				Temperature = -45°C			
				Conversion Loss (dB)	Harmonic Output* (-dBc)		
X1 Output	X2 Output	X3 Output	X4 Output	X3 Output	X1 Output	X2 Output	X4 Output
2000	4000	6000	8000	79.49	19.93	21.90	0.51
2500	5000	7500	10000	49.27	14.51	50.23	18.76
3000	6000	9000	12000	21.73	45.07	83.75	43.88
3300	6600	9900	13200	17.93	49.82	86.25	47.24
3500	7000	10500	14000	16.84	50.99	81.28	56.42
4000	8000	12000	16000	15.54	50.83	65.22	46.51
4500	9000	13500	18000	15.04	49.84	54.81	55.15
5000	10000	15000	20000	15.53	47.54	55.16	53.27
5500	11000	16500	22000	16.12	46.40	49.83	49.68
6000	12000	18000	24000	16.79	47.10	49.35	46.34
6500	13000	19500	26000	17.44	45.40	47.56	42.42
7000	14000	21000	28000	18.26	50.42	53.80	37.97
7400	14800	22200	29600	18.86	29.76	47.91	35.29
7500	15000	22500	30000	18.99	26.08	47.74	35.41
8000	16000	24000	32000	20.72	11.89	44.34	35.14

\* Harmonic Output below power level of X3 Output

Frequency (MHz)				Temperature = +25°C			
				Conversion Loss (dB)	Harmonic Output* (-dBc)		
X1 Output	X2 Output	X3 Output	X4 Output	X3 Output	X1 Output	X2 Output	X4 Output
2000	4000	6000	8000	78.88	18.70	22.83	2.75
2500	5000	7500	10000	49.02	15.17	55.61	18.79
3000	6000	9000	12000	22.59	44.17	79.78	43.06
3300	6600	9900	13200	18.87	48.68	83.36	46.70
3500	7000	10500	14000	17.70	49.86	85.00	62.08
4000	8000	12000	16000	16.43	49.56	63.79	47.39
4500	9000	13500	18000	16.05	48.82	53.15	54.21
5000	10000	15000	20000	16.59	46.43	54.56	52.84
5500	11000	16500	22000	17.15	45.46	49.78	48.86
6000	12000	18000	24000	17.77	46.06	48.83	46.19
6500	13000	19500	26000	18.40	44.44	47.60	42.63
7000	14000	21000	28000	19.26	46.60	50.57	38.41
7400	14800	22200	29600	19.93	28.22	47.33	36.18
7500	15000	22500	30000	19.96	24.71	47.08	36.44
8000	16000	24000	32000	21.75	10.77	52.20	36.53

\* Harmonic Output below power level of X3 Output

Frequency (MHz)				Temperature = +85°C			
				Conversion Loss (dB)	Harmonic Output* (-dBc)		
X1 Output	X2 Output	X3 Output	X4 Output	X3 Output	X1 Output	X2 Output	X4 Output
2000	4000	6000	8000	78.66	18.00	19.10	2.97
2500	5000	7500	10000	48.91	15.63	74.58	18.86
3000	6000	9000	12000	23.49	43.36	76.95	42.14
3300	6600	9900	13200	19.80	47.56	83.16	46.03
3500	7000	10500	14000	18.58	48.73	100.57	64.70
4000	8000	12000	16000	17.36	48.50	62.40	48.08
4500	9000	13500	18000	17.07	47.60	51.68	53.69
5000	10000	15000	20000	17.64	45.34	54.58	52.10
5500	11000	16500	22000	18.16	44.50	49.80	48.37
6000	12000	18000	24000	18.74	44.99	48.13	46.13
6500	13000	19500	26000	19.36	43.68	47.02	42.48
7000	14000	21000	28000	20.20	43.78	48.73	38.06
7400	14800	22200	29600	20.81	26.85	45.77	36.75
7500	15000	22500	30000	20.84	23.49	45.79	37.05
8000	16000	24000	32000	22.69	9.72	47.94	37.44

\* Harmonic Output below power level of X3 Output