

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions  
or to view GRAPHS.**

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Icc = 80mA, Vd = 5.72V @Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	FREQ	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(MHz)	(dB)
50	25.43	28.60	22.54	18.45	1.04	0.69	33.74	19.42	50	4.09
100	25.36	29.30	22.08	18.12	1.08	0.63	33.65	19.53	100	4.21
200	25.21	29.11	21.97	17.33	1.07	0.63	33.82	19.42	200	4.22
400	24.79	29.15	21.97	15.28	1.09	0.59	33.56	19.32	400	4.39
600	24.16	28.92	21.57	13.49	1.09	0.56	33.52	19.10	600	4.32
800	23.47	28.60	21.25	12.13	1.10	0.53	34.04	19.11	800	4.44
1000	22.74	28.45	20.71	11.12	1.12	0.49	34.30	19.16	1000	4.37
1200	22.00	28.06	20.34	10.37	1.13	0.47	34.25	18.67	1200	4.38
1400	21.28	27.81	19.66	9.82	1.15	0.44	33.98	18.88	1400	4.45
1600	20.59	27.47	19.11	9.45	1.16	0.42	34.26	19.02	1600	4.45
1800	19.92	27.20	18.41	9.16	1.19	0.40	34.73	18.97	1800	4.38
2000	19.34	26.88	17.75	8.96	1.20	0.39	34.43	19.09	2000	4.32
2200	18.75	26.57	17.31	8.89	1.22	0.37	34.32	19.20	2200	4.39
2400	18.23	26.22	16.75	8.86	1.22	0.36	34.01	19.31	2400	4.38
2600	17.77	25.99	16.29	8.87	1.24	0.34	33.81	19.19	2600	4.42
2800	17.34	25.71	15.95	8.95	1.26	0.33	33.62	18.94	2800	4.40
3000	16.96	25.39	15.47	8.96	1.26	0.33	33.54	18.88	3000	4.44
3200	16.56	25.21	15.40	9.12	1.29	0.32	33.22	18.77	3200	4.39
3400	16.27	24.91	15.06	9.20	1.28	0.32	33.00	18.65	3400	4.54
3600	15.96	24.60	14.89	9.22	1.28	0.32	32.56	18.40	3600	4.57
3800	15.64	24.42	14.82	9.31	1.30	0.31	31.76	18.00	3800	4.69
4000	15.37	24.27	14.78	9.32	1.32	0.31	31.26	17.44	4000	4.65
4200	15.07	24.11	14.86	9.31	1.34	0.31	31.00	17.19	4200	4.81
4400	14.79	24.06	14.97	9.22	1.37	0.30	30.88	16.94	4400	4.71
4600	14.53	23.87	15.00	9.03	1.37	0.30	30.43	16.57	4600	4.89
4800	14.20	23.79	15.31	8.80	1.40	0.30	30.20	15.99	4800	4.88
5000	13.99	23.92	15.72	8.75	1.45	0.29	29.98	15.57	5000	5.05
5200	13.71	23.93	15.92	8.50	1.48	0.28	29.64	15.34	5200	5.01
5400	13.40	23.88	16.47	8.25	1.52	0.28	29.29	15.07	5400	5.15
5600	13.16	23.88	17.29	8.16	1.56	0.28	28.87	14.83	5600	5.22
5800	12.83	24.03	17.00	7.98	1.62	0.27	28.72	14.57	5800	5.27
6000	12.47	24.19	16.86	7.85	1.70	0.26	28.55	13.99	6000	5.34
6200	12.11	24.28	16.90	7.73	1.78	0.26	28.54	12.64	6500	5.38
6400	11.75	24.11	17.28	7.85	1.84	0.26	28.22	12.46	7000	5.75
6600	11.24	24.45	16.31	7.71	1.99	0.25	28.06	12.90	7500	5.89
6800	10.74	24.77	14.91	7.39	2.14	0.26	27.75	12.85	8000	6.53
7000	10.15	24.42	14.04	7.47	2.20	0.26	27.71	13.07	8500	7.23
7200	9.45	24.67	12.67	7.29	2.38	0.26	27.19	12.92	9000	7.56
7500	8.31	24.24	11.31	7.22	2.53	0.27	27.63	11.64	9500	8.20
8000	6.44	24.17	9.02	6.67	2.84	0.28	26.29	10.57	10000	8.32

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## Typical Performance Data

### Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Icc = 60mA, Vd = 5.66V @Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	FREQ	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(MHz)	(dB)
50	24.80	29.23	17.55	26.86	1.11	0.59	28.69	15.29	50	4.00
100	24.78	28.65	17.79	24.42	1.08	0.63	28.55	15.41	100	4.08
200	24.63	28.39	17.77	21.98	1.07	0.64	28.65	15.32	200	4.19
400	24.23	28.45	18.07	17.49	1.08	0.60	28.41	15.25	400	4.35
600	23.67	28.21	18.01	14.81	1.08	0.57	28.50	15.17	600	4.28
800	23.02	27.90	18.08	12.99	1.08	0.54	29.09	15.18	800	4.38
1000	22.34	27.81	17.86	11.76	1.09	0.50	29.43	15.32	1000	4.31
1200	21.62	27.45	17.70	10.86	1.10	0.47	29.51	14.75	1200	4.31
1400	20.93	27.14	17.44	10.20	1.11	0.45	29.56	15.00	1400	4.39
1600	20.26	26.91	17.12	9.73	1.13	0.42	29.87	15.24	1600	4.37
1800	19.64	26.70	16.64	9.41	1.15	0.40	30.50	15.29	1800	4.27
2000	19.06	26.41	16.07	9.18	1.16	0.38	30.55	15.59	2000	4.24
2200	18.48	26.16	15.76	9.09	1.19	0.36	30.81	15.69	2200	4.29
2400	17.99	25.94	15.31	9.03	1.21	0.35	30.99	15.84	2400	4.28
2600	17.53	25.67	14.84	9.03	1.22	0.33	30.96	15.86	2600	4.30
2800	17.09	25.37	14.64	9.11	1.23	0.33	30.83	15.57	2800	4.28
3000	16.72	25.13	14.24	9.13	1.24	0.32	31.04	15.56	3000	4.28
3200	16.33	25.02	14.20	9.32	1.28	0.31	30.97	15.72	3200	4.26
3400	16.03	24.75	13.87	9.42	1.28	0.30	30.78	15.84	3400	4.42
3600	15.72	24.50	13.78	9.46	1.29	0.30	30.29	15.78	3600	4.44
3800	15.41	24.38	13.75	9.60	1.31	0.30	29.63	15.56	3800	4.56
4000	15.13	24.27	13.77	9.67	1.34	0.29	29.25	15.11	4000	4.46
4200	14.82	24.11	13.83	9.70	1.36	0.29	29.08	15.01	4200	4.65
4400	14.54	24.05	13.98	9.69	1.40	0.28	28.95	14.88	4400	4.55
4600	14.26	23.96	14.04	9.50	1.42	0.28	28.55	14.53	4600	4.70
4800	13.93	23.86	14.33	9.34	1.45	0.28	28.10	14.05	4800	4.71
5000	13.70	24.07	14.74	9.31	1.52	0.27	28.04	13.76	5000	4.87
5200	13.40	24.03	14.90	9.12	1.55	0.26	27.79	13.65	5200	4.83
5400	13.09	24.01	15.46	8.90	1.60	0.26	27.54	13.38	5400	4.97
5600	12.82	24.01	16.21	8.83	1.65	0.26	27.17	13.14	5600	5.06
5800	12.47	24.19	15.98	8.71	1.74	0.25	26.89	12.93	5800	5.10
6000	12.12	24.41	15.99	8.61	1.84	0.24	26.65	12.65	6000	5.15
6200	11.73	24.48	16.02	8.52	1.93	0.24	26.79	11.37	6500	5.16
6400	11.37	24.31	16.45	8.67	1.99	0.24	26.69	11.10	7000	5.52
6600	10.85	24.66	15.64	8.55	2.17	0.23	26.40	11.66	7500	5.65
6800	10.36	25.03	14.46	8.22	2.35	0.23	26.17	11.72	8000	6.26
7000	9.74	24.67	13.69	8.28	2.42	0.24	26.43	12.01	8500	6.95
7200	9.04	24.90	12.40	8.11	2.62	0.24	26.07	11.88	9000	7.30
7500	7.94	24.46	11.13	7.98	2.76	0.25	26.49	10.59	9500	7.95
8000	6.09	24.40	8.92	7.34	3.10	0.26	25.75	9.79	10000	8.00

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## Typical Performance Data

### Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Icc = 100mA, Vd = 5.76V @Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	FREQ	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(MHz)	(dB)
50	25.68	29.60	25.63	16.34	1.08	0.63	37.33	21.73	50	4.07
100	25.65	29.87	25.32	16.02	1.09	0.61	37.35	21.81	100	4.22
200	25.50	29.53	25.84	15.53	1.08	0.62	37.59	21.65	200	4.23
400	25.06	29.43	24.81	14.14	1.08	0.59	36.96	21.53	400	4.30
600	24.43	29.26	24.03	12.67	1.09	0.56	36.51	21.71	600	4.30
800	23.72	28.96	23.13	11.58	1.10	0.53	36.72	21.51	800	4.47
1000	22.96	28.77	22.21	10.75	1.13	0.49	36.70	21.39	1000	4.38
1200	22.19	28.44	21.48	10.12	1.14	0.47	36.39	21.46	1200	4.41
1400	21.46	28.09	20.67	9.64	1.16	0.45	35.91	21.36	1400	4.32
1600	20.75	27.73	19.97	9.30	1.18	0.42	36.09	21.34	1600	4.48
1800	20.07	27.41	19.43	9.03	1.20	0.40	36.24	21.40	1800	4.52
2000	19.46	27.07	18.68	8.85	1.21	0.39	35.92	21.17	2000	4.33
2200	18.89	26.79	18.20	8.85	1.23	0.37	35.42	21.00	2200	4.38
2400	18.36	26.45	17.70	8.85	1.25	0.36	35.24	21.03	2400	4.47
2600	17.89	26.08	16.97	8.85	1.25	0.35	34.65	21.06	2600	4.45
2800	17.40	25.99	16.97	9.01	1.30	0.33	34.65	20.98	2800	4.41
3000	17.05	25.49	16.23	8.95	1.27	0.33	34.51	20.96	3000	4.39
3200	16.67	25.22	16.01	9.06	1.28	0.33	34.19	20.98	3200	4.47
3400	16.33	25.01	15.79	9.17	1.30	0.32	33.98	20.90	3400	4.55
3600	16.02	24.75	15.62	9.20	1.30	0.32	33.51	20.81	3600	4.64
3800	15.72	24.53	15.57	9.25	1.31	0.32	32.65	20.64	3800	4.60
4000	15.47	24.41	15.49	9.28	1.33	0.31	32.13	20.41	4000	4.64
4200	15.17	24.26	15.84	9.21	1.35	0.31	31.94	20.08	4200	4.69
4400	14.88	24.15	16.00	9.15	1.37	0.30	31.76	19.79	4400	4.74
4600	14.68	23.97	15.99	9.00	1.37	0.31	31.27	19.50	4600	4.89
4800	14.40	23.95	16.10	8.73	1.40	0.30	30.95	19.03	4800	4.98
5000	14.17	23.94	16.57	8.56	1.43	0.30	30.70	18.40	5000	5.02
5200	13.93	23.94	16.58	8.37	1.45	0.29	30.48	18.01	5200	5.02
5400	13.64	23.86	16.60	8.08	1.47	0.29	29.92	17.78	5400	5.12
5600	13.38	23.91	17.32	7.97	1.52	0.28	29.61	17.37	5600	5.14
5800	13.05	23.96	17.37	7.75	1.57	0.28	29.44	16.84	5800	5.35
6000	12.69	24.02	17.45	7.64	1.63	0.27	29.38	16.42	6000	5.27
6200	12.30	24.06	17.54	7.52	1.70	0.27	29.32	16.14	6500	5.31
6400	11.84	24.16	16.99	7.38	1.79	0.27	29.21	15.88	7000	5.60
6600	11.39	24.04	16.66	7.35	1.86	0.27	29.00	15.61	7500	5.55
6800	10.78	24.21	15.47	7.24	2.00	0.26	28.85	14.72	8000	6.10
7000	10.15	24.45	14.06	7.05	2.16	0.26	28.62	13.61	8500	6.96
7200	9.49	24.35	12.81	6.98	2.26	0.27	28.77	13.32	9000	7.07
7500	8.43	24.43	11.12	6.71	2.47	0.27	28.03	12.56	9500	8.39
8000	6.56	23.93	9.04	6.40	2.69	0.29	26.61	11.02	10000	8.77

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## Typical Performance Data

### Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Icc = 80mA, Vd = 6.01V @Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	FREQ	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(MHz)	(dB)
50	25.59	28.77	21.83	18.18	1.04	0.68	33.93	19.08	50	3.63
100	25.52	29.31	21.51	18.21	1.07	0.64	33.65	19.07	100	3.71
200	25.38	29.22	21.34	17.60	1.07	0.63	33.73	18.88	200	3.76
400	24.99	29.36	22.77	14.85	1.09	0.59	33.91	19.03	400	3.88
600	24.40	28.96	22.19	13.35	1.08	0.57	34.04	18.83	600	3.80
800	23.72	28.72	21.55	12.01	1.09	0.54	34.70	18.89	800	3.91
1000	23.00	28.43	21.29	11.14	1.10	0.51	35.08	18.91	1000	3.83
1200	22.28	28.12	20.87	10.39	1.12	0.49	35.26	18.51	1200	3.83
1400	21.57	27.82	20.37	9.80	1.13	0.46	35.33	18.63	1400	3.88
1600	20.87	27.51	19.81	9.41	1.15	0.44	35.66	18.80	1600	3.88
1800	20.23	27.29	19.31	9.13	1.17	0.42	36.63	18.83	1800	3.77
2000	19.65	26.87	18.62	8.89	1.17	0.41	36.78	19.00	2000	3.74
2200	19.08	26.63	18.37	8.79	1.20	0.39	37.15	19.11	2200	3.77
2400	18.57	26.26	17.87	8.72	1.20	0.38	37.50	19.39	2400	3.78
2600	18.10	26.09	17.41	8.81	1.23	0.36	37.85	19.32	2600	3.78
2800	17.70	25.73	17.02	8.81	1.23	0.36	37.80	19.14	2800	3.75
3000	17.35	25.32	16.48	8.78	1.21	0.35	38.13	19.19	3000	3.80
3200	17.02	25.08	16.42	8.97	1.23	0.35	38.32	19.26	3200	3.73
3400	16.70	24.89	16.09	8.92	1.24	0.34	38.28	19.29	3400	3.87
3600	16.43	24.57	15.73	9.07	1.24	0.34	38.09	19.46	3600	3.86
3800	16.14	24.41	15.57	9.22	1.25	0.34	36.82	19.12	3800	3.97
4000	15.89	24.25	15.43	9.16	1.26	0.33	35.78	18.78	4000	3.91
4200	15.63	23.99	15.36	8.97	1.25	0.34	35.71	18.68	4200	4.10
4400	15.34	23.87	15.42	8.70	1.26	0.33	36.18	18.46	4400	3.96
4600	15.12	23.81	15.89	8.46	1.28	0.33	35.75	18.14	4600	4.11
4800	14.84	23.68	16.11	8.25	1.29	0.33	35.61	17.75	4800	4.05
5000	14.66	23.68	16.21	7.97	1.30	0.32	35.10	17.41	5000	4.22
5200	14.43	23.76	16.77	7.79	1.33	0.31	34.79	17.15	5200	4.21
5400	14.22	23.76	17.26	7.60	1.35	0.31	34.92	16.84	5400	4.35
5600	14.03	23.66	18.75	7.42	1.37	0.31	33.92	16.66	5600	4.38
5800	13.75	23.59	18.60	7.28	1.40	0.32	33.41	16.43	5800	4.44
6000	13.52	23.76	18.43	7.15	1.44	0.31	33.70	15.90	6000	4.45
6200	13.26	23.75	18.56	7.05	1.48	0.31	33.47	14.48	6500	4.49
6400	13.01	23.60	18.74	7.11	1.51	0.31	33.87	14.06	7000	4.84
6600	12.55	23.97	16.68	6.75	1.61	0.31	33.44	14.40	7500	4.93
6800	12.09	24.37	15.10	6.29	1.71	0.31	32.86	14.27	8000	5.61
7000	11.51	24.38	14.00	6.23	1.80	0.31	32.71	14.48	8500	6.14
7200	10.90	24.21	13.03	6.11	1.87	0.32	32.52	14.24	9000	6.48
7500	9.63	23.23	12.07	6.30	1.93	0.32	32.70	13.02	9500	7.13
8000	7.85	23.13	9.35	5.87	2.12	0.32	31.21	12.90	10000	7.08

## Typical Performance Data

### Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Icc = 60mA, Vd = 5.94V @Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	FREQ	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(MHz)	(dB)
50	25.06	28.57	18.12	24.03	1.06	0.66	27.93	14.68	50	3.56
100	24.98	28.73	17.71	23.55	1.07	0.64	27.66	14.77	100	3.62
200	24.88	28.63	17.63	22.12	1.07	0.64	27.68	14.49	200	3.73
400	24.51	28.76	18.80	17.11	1.08	0.60	27.90	14.64	400	3.86
600	23.94	28.28	18.63	14.60	1.07	0.59	28.13	14.56	600	3.78
800	23.30	28.11	18.58	12.86	1.07	0.55	28.83	14.64	800	3.87
1000	22.64	27.92	18.66	11.76	1.09	0.51	29.16	14.72	1000	3.81
1200	21.96	27.57	18.61	10.89	1.09	0.49	29.35	14.22	1200	3.79
1400	21.25	27.28	18.29	10.16	1.11	0.46	29.57	14.40	1400	3.84
1600	20.60	27.02	17.83	9.73	1.12	0.44	29.86	14.55	1600	3.83
1800	19.96	26.75	17.55	9.36	1.14	0.42	30.49	14.71	1800	3.72
2000	19.43	26.51	17.01	9.11	1.15	0.40	30.70	14.88	2000	3.68
2200	18.86	26.26	16.77	8.99	1.17	0.38	31.19	15.02	2200	3.70
2400	18.34	26.00	16.35	8.89	1.19	0.37	31.65	15.41	2400	3.67
2600	17.90	25.78	16.00	8.97	1.21	0.35	32.05	15.35	2600	3.68
2800	17.49	25.49	15.60	8.97	1.21	0.35	32.03	15.09	2800	3.67
3000	17.14	25.12	15.15	8.92	1.20	0.34	32.53	15.24	3000	3.68
3200	16.80	24.97	15.08	9.13	1.23	0.33	33.01	15.34	3200	3.64
3400	16.51	24.72	14.88	9.11	1.23	0.33	33.20	15.65	3400	3.76
3600	16.23	24.50	14.54	9.28	1.24	0.33	32.80	15.99	3600	3.75
3800	15.92	24.32	14.44	9.45	1.26	0.32	32.13	15.70	3800	3.87
4000	15.70	24.17	14.37	9.46	1.27	0.32	31.72	15.45	4000	3.79
4200	15.43	23.94	14.29	9.30	1.27	0.32	31.82	15.69	4200	3.99
4400	15.14	23.87	14.42	9.07	1.29	0.32	31.94	15.67	4400	3.85
4600	14.90	23.83	14.84	8.84	1.30	0.31	31.34	15.34	4600	3.99
4800	14.63	23.75	15.08	8.69	1.33	0.31	30.90	14.82	4800	3.94
5000	14.42	23.77	15.21	8.40	1.34	0.30	30.52	14.73	5000	4.12
5200	14.19	23.81	15.72	8.28	1.38	0.30	30.63	14.71	5200	4.10
5400	13.96	23.87	16.19	8.09	1.42	0.29	30.60	14.38	5400	4.24
5600	13.73	23.79	17.45	7.94	1.44	0.29	30.04	14.17	5600	4.28
5800	13.47	23.70	17.41	7.88	1.47	0.30	29.73	13.98	5800	4.30
6000	13.20	23.90	17.28	7.75	1.53	0.29	29.34	13.79	6000	4.32
6200	12.95	23.96	17.44	7.75	1.59	0.29	29.11	12.37	6500	4.35
6400	12.65	23.75	17.60	7.81	1.62	0.29	29.35	12.01	7000	4.69
6600	12.20	24.13	15.97	7.48	1.74	0.29	29.02	12.56	7500	4.75
6800	11.73	24.57	14.64	6.97	1.86	0.29	29.00	12.50	8000	5.41
7000	11.14	24.61	13.61	6.91	1.97	0.29	28.70	12.87	8500	5.94
7200	10.53	24.41	12.76	6.84	2.04	0.30	28.29	12.57	9000	6.25
7500	9.27	23.41	11.83	6.92	2.09	0.30	29.05	11.14	9500	6.91
8000	7.49	23.26	9.21	6.42	2.28	0.30	29.24	11.64	10000	6.77

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## Typical Performance Data

### Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Icc = 100mA, Vd = 6.03V @Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	FREQ	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(MHz)	(dB)
50	25.81	29.75	25.09	16.07	1.07	0.63	37.88	21.80	50	3.65
100	25.78	29.62	24.31	16.12	1.07	0.63	37.67	21.91	100	3.81
200	25.64	29.74	23.99	15.98	1.08	0.61	37.77	21.65	200	3.80
400	25.22	29.48	25.86	13.79	1.08	0.60	37.69	21.56	400	3.87
600	24.61	29.32	24.36	12.60	1.09	0.57	37.56	21.85	600	3.85
800	23.93	29.02	23.39	11.57	1.10	0.54	38.00	21.65	800	3.98
1000	23.20	28.72	22.60	10.88	1.11	0.51	38.36	21.54	1000	3.90
1200	22.44	28.44	22.20	10.21	1.13	0.48	38.39	21.62	1200	3.91
1400	21.72	28.09	21.50	9.61	1.14	0.46	38.26	21.57	1400	3.82
1600	21.02	27.79	20.63	9.29	1.16	0.44	38.68	21.50	1600	3.98
1800	20.36	27.43	20.14	9.00	1.18	0.42	39.96	21.56	1800	4.04
2000	19.76	27.08	19.50	8.82	1.19	0.41	40.16	21.33	2000	3.80
2200	19.19	26.80	19.05	8.77	1.21	0.39	40.22	21.15	2200	3.82
2400	18.67	26.53	18.66	8.75	1.23	0.38	40.36	21.16	2400	3.92
2600	18.21	26.10	17.78	8.73	1.22	0.37	39.93	21.27	2600	3.88
2800	17.74	25.96	17.74	8.85	1.26	0.35	40.07	21.19	2800	3.85
3000	17.40	25.44	17.07	8.81	1.23	0.36	40.53	21.27	3000	3.80
3200	17.06	25.25	16.90	8.92	1.25	0.35	40.68	21.50	3200	3.91
3400	16.73	24.98	16.66	9.07	1.26	0.34	40.90	21.59	3400	3.96
3600	16.43	24.73	16.52	9.00	1.26	0.34	39.77	21.50	3600	4.01
3800	16.17	24.51	16.48	9.10	1.27	0.34	38.27	21.41	3800	3.96
4000	15.94	24.35	16.71	9.11	1.28	0.34	36.92	21.34	4000	4.02
4200	15.68	24.20	17.18	8.95	1.29	0.34	37.85	21.24	4200	4.07
4400	15.42	24.01	17.42	8.74	1.29	0.34	38.86	21.14	4400	4.08
4600	15.26	23.98	17.09	8.58	1.30	0.33	37.94	21.06	4600	4.26
4800	15.03	23.79	17.22	8.24	1.29	0.33	37.78	20.75	4800	4.28
5000	14.84	23.81	17.61	8.01	1.31	0.33	37.09	20.28	5000	4.32
5200	14.66	23.73	17.36	7.82	1.31	0.32	37.47	19.92	5200	4.30
5400	14.46	23.73	17.40	7.52	1.32	0.32	37.24	19.59	5400	4.43
5600	14.25	23.71	17.81	7.45	1.34	0.32	36.27	19.28	5600	4.39
5800	14.02	23.66	18.26	7.29	1.36	0.31	36.45	18.88	5800	4.61
6000	13.75	23.72	18.49	7.06	1.39	0.31	36.22	18.47	6000	4.49
6200	13.44	23.68	18.66	6.89	1.43	0.31	36.27	18.07	6500	4.55
6400	13.02	23.81	18.40	6.59	1.49	0.31	37.27	17.80	7000	4.79
6600	12.65	23.63	18.23	6.43	1.52	0.32	36.34	17.64	7500	4.71
6800	12.08	23.80	16.49	6.27	1.61	0.31	35.42	16.93	8000	5.32
7000	11.46	24.06	14.86	6.07	1.73	0.30	37.18	15.19	8500	5.91
7200	10.83	24.04	13.21	5.91	1.81	0.31	36.90	14.77	9000	6.27
7500	9.80	24.01	11.28	5.79	1.96	0.32	34.77	13.81	9500	7.84
8000	7.96	23.58	9.17	5.66	2.16	0.33	32.29	12.76	10000	7.66

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## Typical Performance Data

### Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Icc = 80mA, Vd = 5.54V @Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	FREQ	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(MHz)	(dB)
50	25.27	29.19	21.34	19.43	1.08	0.63	33.82	19.25	50	4.46
100	25.19	29.34	22.03	18.68	1.09	0.61	33.63	19.34	100	4.57
200	25.04	28.96	22.85	17.40	1.08	0.63	33.72	19.15	200	4.58
400	24.60	28.96	21.39	15.50	1.09	0.59	33.69	19.10	400	4.76
600	23.98	28.81	20.71	13.72	1.10	0.55	33.79	18.96	600	4.71
800	23.27	28.46	20.24	12.25	1.10	0.53	34.46	19.04	800	4.83
1000	22.53	28.27	19.77	11.30	1.12	0.49	34.84	19.05	1000	4.78
1200	21.78	28.02	19.45	10.51	1.14	0.46	34.94	18.62	1200	4.80
1400	21.04	27.65	18.90	9.92	1.15	0.44	34.82	18.79	1400	4.87
1600	20.32	27.42	18.48	9.51	1.18	0.41	35.19	18.93	1600	4.89
1800	19.66	27.11	17.82	9.22	1.20	0.39	35.95	18.88	1800	4.77
2000	19.06	26.84	17.18	9.00	1.21	0.37	35.76	19.06	2000	4.74
2200	18.47	26.53	16.65	8.97	1.23	0.35	35.88	19.17	2200	4.81
2400	17.94	26.22	16.07	8.94	1.25	0.34	35.76	19.32	2400	4.85
2600	17.47	25.90	15.53	9.03	1.26	0.33	35.79	19.21	2600	4.87
2800	17.01	25.69	15.20	9.05	1.28	0.32	35.68	19.09	2800	4.87
3000	16.61	25.34	14.71	9.04	1.28	0.31	35.76	19.11	3000	4.91
3200	16.22	25.15	14.50	9.24	1.31	0.30	35.76	19.06	3200	4.86
3400	15.88	24.90	14.26	9.32	1.32	0.30	35.48	19.09	3400	5.03
3600	15.54	24.66	14.20	9.46	1.34	0.29	35.16	18.94	3600	5.09
3800	15.22	24.54	14.15	9.63	1.37	0.29	34.29	18.59	3800	5.20
4000	14.93	24.37	14.07	9.72	1.39	0.28	33.51	18.08	4000	5.14
4200	14.60	24.16	14.21	9.70	1.41	0.28	33.47	17.87	4200	5.34
4400	14.29	24.05	14.42	9.63	1.44	0.28	33.47	17.66	4400	5.24
4600	13.97	24.01	14.65	9.48	1.48	0.28	33.04	17.30	4600	5.42
4800	13.64	23.94	14.74	9.29	1.51	0.27	32.61	16.77	4800	5.42
5000	13.35	24.02	14.78	9.12	1.56	0.26	32.53	16.41	5000	5.60
5200	13.02	24.10	14.88	8.93	1.62	0.26	32.46	16.13	5200	5.58
5400	12.70	24.17	15.18	8.83	1.69	0.25	32.02	15.86	5400	5.73
5600	12.37	24.28	15.64	8.78	1.77	0.24	31.62	15.68	5600	5.82
5800	12.01	24.24	16.02	8.62	1.83	0.24	31.43	15.35	5800	5.87
6000	11.60	24.47	16.06	8.51	1.95	0.23	31.38	14.75	6000	5.98
6200	11.19	24.62	16.38	8.51	2.08	0.22	31.51	13.32	6500	6.05
6400	10.75	24.62	16.69	8.57	2.19	0.22	31.88	12.95	7000	6.41
6600	10.28	24.87	16.00	8.36	2.36	0.22	31.00	13.44	7500	6.58
6800	9.79	24.68	15.12	8.38	2.44	0.23	30.55	13.35	8000	7.20
7000	9.08	25.20	13.61	8.21	2.73	0.22	30.45	13.52	8500	7.88
7200	8.43	24.90	12.62	8.26	2.83	0.23	30.89	13.43	9000	8.35
7500	7.23	24.34	11.21	8.12	2.96	0.24	30.69	11.99	9500	9.02
8000	5.42	24.12	8.89	7.41	3.24	0.25	29.31	11.45	10000	9.14

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## Typical Performance Data

### Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Icc = 60mA, Vd = 5.47V @Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	FREQ	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(MHz)	(dB)
50	24.62	27.96	17.32	29.42	1.06	0.68	28.33	15.00	50	4.37
100	24.55	28.05	17.54	25.93	1.06	0.66	28.13	15.10	100	4.44
200	24.43	28.50	18.14	22.01	1.09	0.62	28.16	14.93	200	4.56
400	24.03	28.30	17.40	17.56	1.08	0.60	28.13	14.99	400	4.73
600	23.44	28.01	17.17	14.95	1.08	0.57	28.31	14.90	600	4.68
800	22.77	27.85	17.07	13.05	1.08	0.53	28.99	15.00	800	4.80
1000	22.09	27.56	17.01	11.89	1.09	0.50	29.36	15.13	1000	4.73
1200	21.39	27.36	16.96	10.95	1.11	0.46	29.50	14.56	1200	4.75
1400	20.67	27.12	16.65	10.27	1.12	0.43	29.59	14.83	1400	4.81
1600	20.02	26.80	16.46	9.78	1.14	0.41	29.90	14.90	1600	4.82
1800	19.36	26.62	15.99	9.44	1.16	0.38	30.55	15.06	1800	4.69
2000	18.79	26.33	15.56	9.22	1.18	0.37	30.65	15.25	2000	4.66
2200	18.21	26.11	15.07	9.16	1.20	0.35	31.04	15.34	2200	4.74
2400	17.67	25.85	14.61	9.11	1.22	0.33	31.43	15.69	2400	4.74
2600	17.22	25.58	14.19	9.17	1.23	0.32	31.58	15.61	2600	4.75
2800	16.77	25.40	13.90	9.21	1.26	0.30	31.55	15.45	2800	4.74
3000	16.36	25.09	13.54	9.22	1.26	0.30	31.93	15.50	3000	4.76
3200	15.98	24.95	13.37	9.44	1.30	0.29	32.15	15.58	3200	4.71
3400	15.64	24.73	13.20	9.56	1.31	0.28	32.12	15.85	3400	4.92
3600	15.30	24.54	13.16	9.73	1.34	0.28	31.65	16.01	3600	4.93
3800	14.96	24.48	13.15	9.96	1.38	0.27	31.06	15.78	3800	5.08
4000	14.67	24.33	13.12	10.09	1.41	0.27	30.61	15.40	4000	5.02
4200	14.34	24.08	13.27	10.15	1.42	0.27	30.61	15.44	4200	5.17
4400	14.03	24.09	13.50	10.14	1.48	0.26	30.48	15.28	4400	5.08
4600	13.70	24.08	13.72	10.03	1.53	0.26	30.00	14.94	4600	5.27
4800	13.36	24.05	13.86	9.90	1.57	0.25	29.67	14.47	4800	5.27
5000	13.04	24.13	13.92	9.77	1.64	0.24	29.49	14.33	5000	5.45
5200	12.69	24.17	14.07	9.62	1.70	0.24	29.44	14.14	5200	5.43
5400	12.36	24.32	14.37	9.56	1.79	0.23	29.34	13.80	5400	5.55
5600	12.02	24.40	14.81	9.53	1.88	0.22	28.98	13.63	5600	5.65
5800	11.66	24.43	15.23	9.42	1.97	0.22	28.63	13.51	5800	5.69
6000	11.23	24.66	15.30	9.32	2.11	0.21	28.39	13.18	6000	5.79
6200	10.84	24.88	15.68	9.36	2.26	0.20	28.46	11.87	6500	5.85
6400	10.37	24.88	15.99	9.44	2.40	0.20	28.35	11.51	7000	6.21
6600	9.90	25.19	15.47	9.26	2.60	0.20	28.35	11.93	7500	6.31
6800	9.40	24.94	14.73	9.28	2.68	0.21	27.89	11.99	8000	6.95
7000	8.70	25.42	13.32	9.09	2.98	0.20	28.05	12.31	8500	7.62
7200	8.06	25.18	12.40	9.16	3.11	0.21	27.70	12.16	9000	8.10
7500	6.89	24.56	11.07	8.96	3.22	0.22	28.18	10.73	9500	8.79
8000	5.09	24.28	8.81	8.12	3.50	0.23	27.31	10.43	10000	8.91

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## Typical Performance Data

### Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

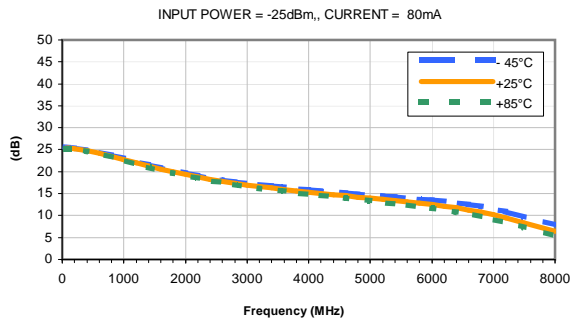
Output Return Loss = -S22 (dB)

TEST CONDITIONS: Icc = 100mA, Vd = 5.56V @Temperature = +85degC

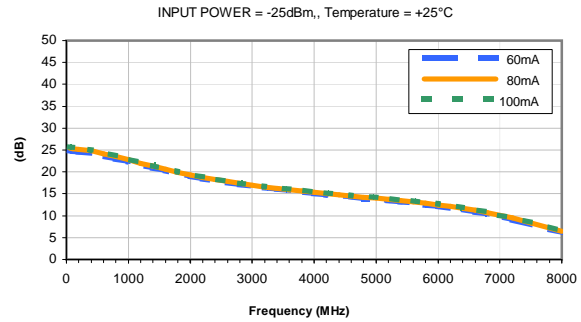
FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	FREQ	Noise Figure
					K	Delta				
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(MHz)	(dB)
50	25.54	29.58	25.38	16.87	1.08	0.62	37.67	21.85	50	4.43
100	25.50	29.41	25.77	16.32	1.07	0.63	37.59	21.91	100	4.59
200	25.35	29.33	27.16	15.52	1.08	0.62	37.76	21.70	200	4.60
400	24.89	29.44	24.27	14.33	1.09	0.58	37.38	21.53	400	4.71
600	24.25	29.12	23.07	12.94	1.10	0.56	37.16	21.77	600	4.71
800	23.52	28.90	22.14	11.75	1.11	0.52	37.58	21.61	800	4.88
1000	22.75	28.61	21.22	10.95	1.13	0.49	37.79	21.49	1000	4.82
1200	21.96	28.31	20.60	10.29	1.15	0.46	37.63	21.59	1200	4.84
1400	21.22	27.98	19.90	9.75	1.17	0.43	37.30	21.49	1400	4.79
1600	20.49	27.64	19.26	9.37	1.19	0.41	37.71	21.49	1600	4.92
1800	19.80	27.38	18.67	9.11	1.21	0.39	38.26	21.53	1800	4.99
2000	19.17	26.99	17.97	8.93	1.22	0.37	38.03	21.26	2000	4.80
2200	18.57	26.77	17.43	8.91	1.26	0.35	37.73	21.12	2200	4.89
2400	18.04	26.40	16.97	8.93	1.27	0.34	37.43	21.10	2400	4.98
2600	17.56	26.08	16.27	8.93	1.28	0.33	37.13	21.17	2600	4.97
2800	17.05	25.88	16.21	9.09	1.32	0.32	37.29	21.06	2800	4.92
3000	16.67	25.47	15.59	9.05	1.30	0.32	37.35	21.16	3000	4.93
3200	16.28	25.28	15.34	9.18	1.33	0.31	37.32	21.26	3200	5.01
3400	15.92	25.04	15.05	9.34	1.35	0.30	37.16	21.26	3400	5.11
3600	15.58	24.82	14.82	9.45	1.36	0.29	36.60	21.14	3600	5.21
3800	15.25	24.58	14.81	9.58	1.38	0.29	35.47	21.03	3800	5.14
4000	14.98	24.42	14.71	9.67	1.39	0.29	34.65	20.88	4000	5.22
4200	14.67	24.31	15.02	9.67	1.43	0.28	35.11	20.70	4200	5.26
4400	14.36	24.24	15.17	9.62	1.46	0.28	34.83	20.45	4400	5.31
4600	14.11	24.11	15.20	9.46	1.48	0.28	34.50	20.22	4600	5.48
4800	13.80	24.07	15.30	9.21	1.51	0.27	34.24	19.78	4800	5.61
5000	13.51	24.08	15.72	9.04	1.56	0.27	33.96	19.23	5000	5.64
5200	13.20	24.16	15.59	8.86	1.61	0.26	33.96	18.81	5200	5.64
5400	12.87	24.09	15.73	8.62	1.64	0.26	33.36	18.52	5400	5.75
5600	12.55	24.16	16.26	8.56	1.71	0.25	33.19	18.14	5600	5.80
5800	12.15	24.25	16.41	8.38	1.79	0.24	33.07	17.67	5800	6.04
6000	11.75	24.33	16.65	8.35	1.89	0.24	32.75	17.23	6000	5.99
6200	11.33	24.35	16.85	8.28	1.98	0.23	32.89	16.89	6500	6.04
6400	10.83	24.52	16.39	8.20	2.12	0.23	32.80	16.66	7000	6.36
6600	10.30	24.38	16.03	8.20	2.22	0.23	32.24	16.42	7500	6.34
6800	9.70	24.56	15.02	8.14	2.40	0.23	32.31	15.50	8000	6.87
7000	9.05	24.71	13.75	7.98	2.58	0.23	33.07	14.41	8500	7.92
7200	8.37	24.59	12.65	7.91	2.71	0.23	33.50	14.00	9000	7.92
7500	7.33	24.67	11.10	7.61	2.96	0.24	32.55	13.06	9500	9.06
8000	5.44	24.13	8.98	7.08	3.19	0.26	30.07	11.61	10000	9.69

## Typical Performance Curves

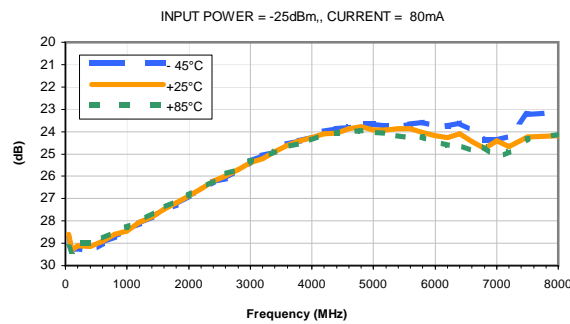
**GAIN vs. TEMPERATURE**



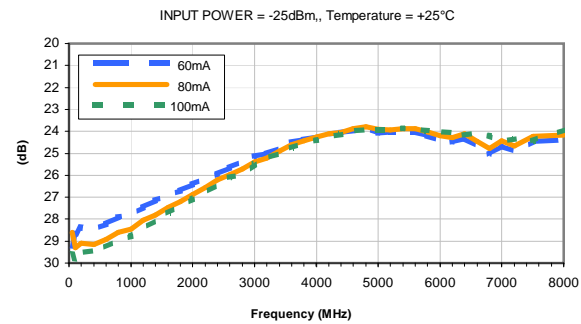
**GAIN vs. CURRENT**



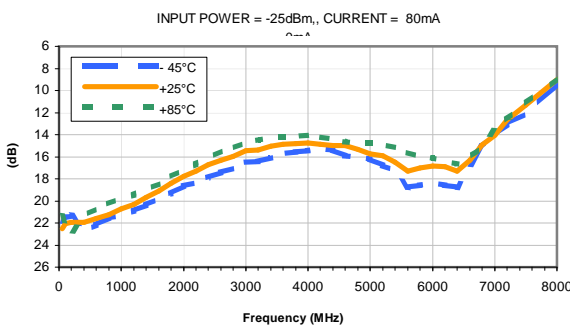
**ISOLATION vs. TEMPERATURE**



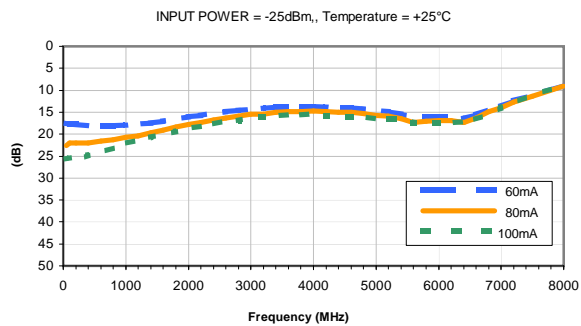
**ISOLATION vs. CURRENT**



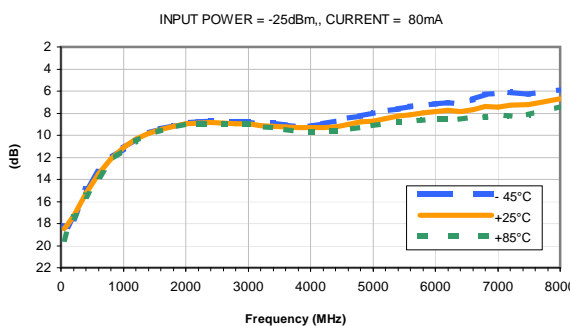
**INPUT RETURN LOSS vs. TEMPERATURE**



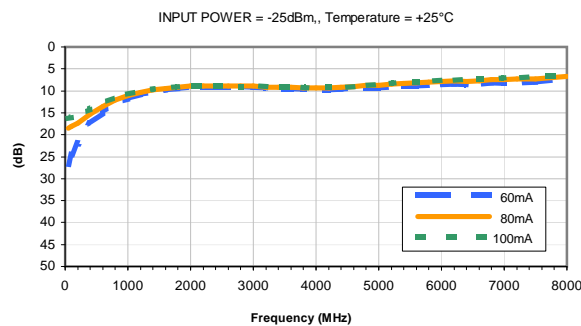
**INPUT RETURN LOSS vs. CURRENT**



**OUTPUT RETURN LOSS vs. TEMPERATURE**



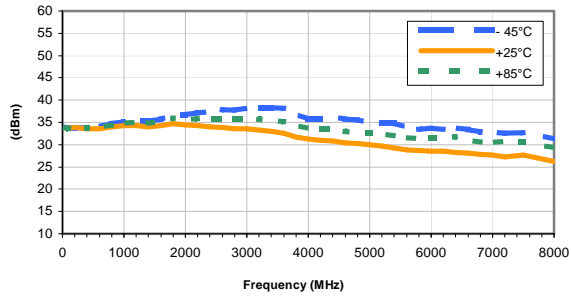
**OUTPUT RETURN LOSS vs. CURRENT**



## Typical Performance Curves

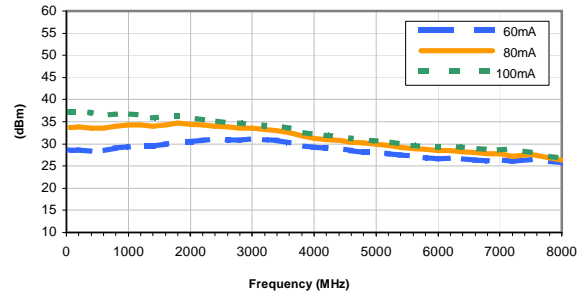
**OUTPUT IP3 vs. TEMPERATURE**

INPUT POWER = -25dBm, CURRENT = 80mA



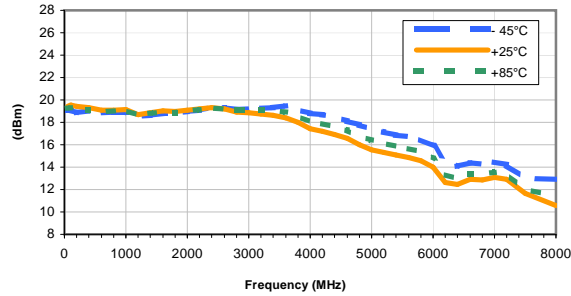
**OUTPUT IP3 vs. CURRENT**

INPUT POWER = -25dBm, Temperature = +25°C



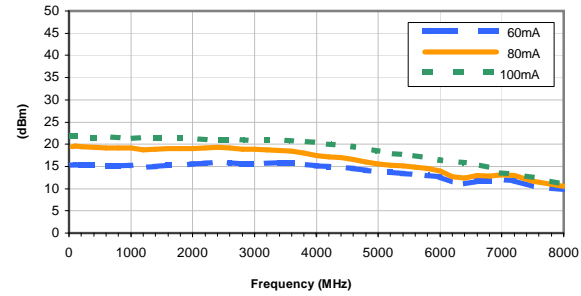
**OUTPUT POWER at 1dB Compression vs. TEMPERATURE**

CURRENT = 80mA



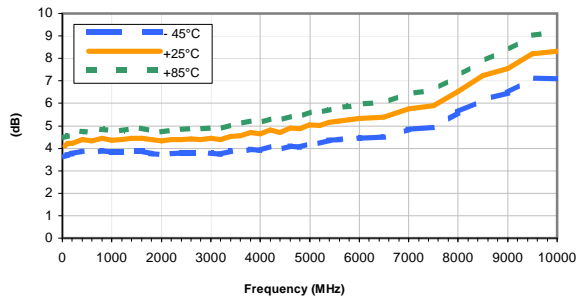
**OUTPUT POWER at 1dB Compression vs. CURRENT**

Temperature = +25°C



**Noise Figure vs. TEMPERATURE**

CURRENT = 80mA



**Noise Figure vs. CURRENT**

Temperature = +25°C

