

## 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: INPUT POWER = -25dBm, Icc = 40mA, Vd = 4.26V @Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		FREQ	IP3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(MHz)	(dBm)	(dBm)	(dB)
50	19.83	22.56	31.21	26.25	1.05	0.73	50	28.26	14.52	3.04
100	19.80	21.89	39.46	27.86	1.03	0.79	100	27.93	14.22	3.18
150	19.81	22.16	32.30	27.06	1.04	0.76	200	28.68	14.33	3.01
200	19.80	22.24	29.43	27.70	1.04	0.76	300	28.26	14.32	3.09
300	19.70	22.15	27.57	27.80	1.04	0.75	400	28.13	14.38	3.02
400	19.71	22.17	26.09	26.99	1.04	0.76	500	27.80	14.37	3.11
500	19.64	21.95	24.72	26.91	1.03	0.77	600	27.69	14.19	3.04
600	19.66	22.02	22.23	26.83	1.03	0.77	700	27.97	14.14	3.19
700	19.54	22.16	21.93	26.61	1.04	0.74	800	28.48	13.81	3.09
800	19.50	22.11	20.45	25.81	1.04	0.74	900	28.28	13.73	3.12
1000	19.38	22.12	18.72	25.00	1.05	0.74	1000	27.76	13.63	3.02
1200	19.23	22.32	17.72	23.30	1.06	0.71	1100	28.06	13.80	3.08
1400	19.07	22.39	16.50	21.85	1.06	0.69	1200	28.13	13.76	3.08
1600	18.92	22.52	15.66	20.56	1.08	0.68	1300	27.81	13.68	3.08
1800	18.77	22.70	14.87	19.17	1.09	0.66	1400	27.57	13.75	3.07
2000	18.58	22.86	14.12	18.03	1.10	0.63	1500	27.48	13.44	3.10
2200	18.39	22.99	13.59	17.19	1.12	0.62	1600	27.78	13.57	3.14
2400	18.23	23.06	13.00	16.37	1.13	0.61	1700	28.20	13.31	3.02
2600	18.05	23.20	12.29	15.68	1.14	0.59	1800	27.88	13.57	3.09
2800	17.84	23.46	12.01	15.18	1.17	0.56	1900	27.34	13.39	3.08
3000	17.73	23.56	11.64	14.79	1.18	0.55	2000	27.00	13.28	3.10
3200	17.55	23.73	11.24	14.56	1.20	0.54	2100	26.76	13.13	3.06
3400	17.47	23.91	10.79	14.44	1.21	0.52	2200	26.40	12.69	3.05
3600	17.35	24.06	10.62	14.18	1.23	0.51	2300	26.29	12.67	3.02
3800	17.23	24.26	10.51	14.16	1.25	0.49	2400	25.93	12.54	3.10
4000	17.15	24.35	10.42	14.24	1.26	0.48	2500	25.49	12.75	3.06
4200	17.12	24.52	10.23	14.31	1.27	0.47	2600	25.32	12.59	3.19
4400	17.05	24.53	10.39	14.10	1.28	0.46	2700	24.93	12.52	3.08
4600	17.09	24.83	10.38	13.75	1.30	0.44	2800	24.69	12.44	3.15
5000	17.05	24.90	10.87	12.88	1.30	0.43	2900	24.25	12.36	3.11
5500	17.10	24.92	11.97	11.05	1.27	0.42	3000	24.00	12.23	3.16
6000	17.23	24.60	14.11	9.26	1.20	0.43	3100	23.60	11.60	3.10
6500	17.43	24.58	17.35	7.46	1.11	0.42	3200	23.18	12.03	3.19
7000	17.20	24.21	22.41	6.14	1.03	0.41	3300	22.85	11.95	3.19
7500	16.14	23.96	19.10	5.44	1.05	0.39	3400	22.52	11.94	3.24
8000	14.16	23.88	14.43	5.34	1.20	0.34	3500	22.40	11.48	3.17
8500	11.98	24.44	11.88	5.36	1.51	0.28	3600	22.21	11.31	3.23
9000	9.71	23.57	10.79	5.68	1.73	0.23	3700	21.97	11.42	3.11
9500	7.77	22.80	9.89	5.95	1.92	0.19	3800	21.78	10.98	3.18
10000	6.09	21.44	9.08	5.97	1.90	0.16	4000	21.22	10.64	3.13

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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: INPUT POWER = -25dBm, Icc = 32mA, Vd = 4.21V @Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		FREQ	IP3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(MHz)	(dBm)	(dBm)	(dB)
50	19.46	21.91	26.07	20.92	1.04	0.76	50	24.60	11.56	3.06
100	19.42	22.25	31.49	22.54	1.05	0.72	100	24.30	11.11	3.12
150	19.42	21.83	25.21	22.19	1.04	0.76	200	24.90	11.44	3.03
200	19.40	21.63	26.68	21.91	1.03	0.78	300	24.51	11.45	3.04
300	19.33	22.05	25.50	22.22	1.05	0.73	400	24.40	11.38	3.03
400	19.32	21.80	23.96	22.04	1.04	0.76	500	24.11	11.46	3.08
500	19.27	21.73	23.71	22.05	1.04	0.76	600	24.07	11.25	3.05
600	19.31	21.79	21.71	22.54	1.04	0.76	700	24.27	11.30	3.17
700	19.20	21.77	21.58	22.49	1.04	0.75	800	24.71	10.86	3.08
800	19.15	21.94	20.03	22.03	1.05	0.73	900	24.56	10.90	3.10
1000	19.03	21.98	18.63	21.75	1.05	0.72	1000	24.10	10.81	3.01
1200	18.88	22.05	17.62	20.88	1.06	0.71	1100	24.43	11.02	3.07
1400	18.73	22.24	16.46	19.81	1.07	0.68	1200	24.50	10.76	3.05
1600	18.59	22.40	15.65	18.91	1.09	0.66	1300	24.27	10.83	3.06
1800	18.45	22.48	14.80	17.67	1.09	0.65	1400	24.17	10.98	3.07
2000	18.28	22.61	14.01	16.63	1.10	0.64	1500	24.17	10.73	3.10
2200	18.10	22.76	13.45	15.86	1.12	0.62	1600	24.47	10.87	3.13
2400	17.96	22.85	12.82	15.16	1.13	0.61	1700	24.81	10.55	3.02
2600	17.78	23.18	12.13	14.53	1.15	0.58	1800	24.64	10.90	3.03
2800	17.58	23.22	11.83	13.98	1.17	0.57	1900	24.27	10.73	3.06
3000	17.48	23.37	11.44	13.60	1.18	0.56	2000	24.10	10.69	3.07
3200	17.31	23.61	11.00	13.54	1.20	0.54	2100	23.91	10.52	3.06
3400	17.24	23.80	10.59	13.48	1.21	0.52	2200	23.73	10.10	2.99
3600	17.13	23.93	10.38	13.19	1.23	0.51	2300	23.69	10.06	3.02
3800	17.02	23.90	10.28	13.11	1.23	0.50	2400	23.48	9.92	3.05
4000	16.94	24.25	10.21	13.15	1.26	0.48	2500	23.22	10.30	3.07
4200	16.92	24.33	10.04	13.14	1.26	0.47	2600	23.30	10.01	3.15
4400	16.86	24.46	10.17	13.03	1.28	0.46	2700	23.06	10.23	3.09
4600	16.92	24.45	10.14	12.85	1.26	0.46	2800	22.95	10.23	3.14
5000	16.88	24.66	10.70	12.04	1.27	0.43	2900	22.64	10.18	3.08
5500	16.96	24.62	11.83	10.40	1.24	0.43	3000	22.48	10.03	3.16
6000	17.08	24.36	13.97	8.70	1.16	0.43	3100	22.14	9.64	3.09
6500	17.29	24.20	16.84	7.01	1.06	0.42	3200	21.80	10.11	3.16
7000	17.02	23.76	20.53	5.82	0.98	0.41	3300	21.59	10.11	3.16
7500	15.94	23.58	17.85	5.20	1.00	0.38	3400	21.30	10.25	3.23
8000	13.94	23.69	13.95	5.18	1.17	0.32	3500	21.25	9.95	3.15
8500	11.74	24.15	11.67	5.24	1.47	0.27	3600	21.10	9.81	3.23
9000	9.45	23.40	10.60	5.56	1.71	0.22	3700	20.90	9.79	3.08
9500	7.54	22.70	9.76	5.87	1.92	0.19	3800	20.76	9.52	3.11
10000	5.93	21.30	8.94	5.86	1.88	0.16	4000	20.27	9.49	3.11

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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: INPUT POWER = -25dBm, Icc = 48mA, Vd = 4.30V @Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		FREQ	IP3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(MHz)	(dBm)	(dBm)	(dB)
50	20.09	21.77	27.94	31.29	1.02	0.82	50	31.25	16.64	3.10
100	20.05	22.07	32.45	34.92	1.03	0.79	100	30.88	16.39	3.20
150	20.05	22.21	34.69	32.73	1.03	0.78	200	31.86	16.52	3.02
200	20.02	22.21	28.77	33.53	1.03	0.78	300	31.43	16.48	3.14
300	19.96	22.14	27.27	32.60	1.03	0.78	400	31.28	16.44	3.04
400	19.95	22.20	25.50	31.53	1.03	0.77	500	30.89	16.47	3.16
500	19.90	22.26	24.03	30.84	1.04	0.76	600	30.78	16.33	3.06
600	19.89	22.20	21.89	30.46	1.03	0.77	700	31.06	16.19	3.23
700	19.75	22.35	21.55	29.63	1.04	0.74	800	31.68	15.94	3.11
800	19.74	22.35	20.24	28.00	1.04	0.74	900	31.42	15.88	3.15
1000	19.59	22.42	18.54	26.43	1.05	0.73	1000	30.74	15.73	3.05
1200	19.45	22.49	17.58	24.48	1.05	0.71	1100	31.14	15.86	3.10
1400	19.28	22.61	16.43	22.72	1.06	0.69	1200	31.06	15.81	3.11
1600	19.10	22.75	15.59	21.39	1.08	0.67	1300	30.67	15.65	3.11
1800	18.94	22.73	14.86	19.94	1.08	0.66	1400	30.24	15.68	3.13
2000	18.77	23.04	14.19	18.74	1.10	0.63	1500	29.97	15.43	3.12
2200	18.57	23.14	13.65	17.91	1.12	0.62	1600	30.16	15.49	3.17
2400	18.43	23.17	13.07	17.05	1.12	0.61	1700	30.63	15.20	3.02
2600	18.23	23.50	12.44	16.37	1.15	0.58	1800	30.17	15.35	3.10
2800	18.04	23.55	12.17	15.86	1.16	0.57	1900	29.48	15.27	3.06
3000	17.90	23.56	11.80	15.41	1.17	0.56	2000	29.09	15.09	3.15
3200	17.70	23.84	11.38	15.25	1.20	0.53	2100	28.67	14.91	3.08
3400	17.62	24.03	10.95	15.18	1.21	0.52	2200	28.22	14.59	3.09
3600	17.48	24.15	10.77	14.93	1.23	0.51	2300	27.95	14.42	3.03
3800	17.37	24.43	10.66	14.89	1.26	0.48	2400	27.43	14.28	3.14
4000	17.29	24.47	10.58	14.90	1.27	0.48	2500	26.94	14.32	3.10
4200	17.26	24.62	10.36	14.88	1.27	0.47	2600	26.50	13.95	3.21
4400	17.19	24.66	10.56	14.72	1.28	0.46	2700	26.08	13.72	3.11
4600	17.20	24.86	10.49	14.34	1.29	0.44	2800	25.69	13.69	3.21
5000	17.18	24.96	10.98	13.36	1.30	0.43	2900	25.23	13.48	3.12
5500	17.25	25.19	12.03	11.45	1.29	0.42	3000	24.91	13.35	3.20
6000	17.40	24.96	14.10	9.53	1.23	0.42	3100	24.51	12.57	3.14
6500	17.61	24.78	17.51	7.60	1.13	0.42	3200	24.09	12.97	3.21
7000	17.39	24.38	24.15	6.25	1.04	0.42	3300	23.66	12.87	3.23
7500	16.38	24.18	19.96	5.47	1.06	0.40	3400	23.30	12.72	3.25
8000	14.40	24.26	14.78	5.37	1.23	0.34	3500	23.16	12.37	3.20
8500	12.21	24.69	12.25	5.45	1.55	0.28	3600	22.91	12.13	3.29
9000	9.93	23.79	10.97	5.70	1.75	0.24	3700	22.70	12.23	3.16
9500	8.02	22.89	10.01	5.97	1.91	0.20	3800	22.53	11.70	3.19
10000	6.39	21.39	9.14	5.95	1.84	0.17	4000	21.97	11.35	3.15

## 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: INPUT POWER = -25dBm, Icc = 40mA, Vd = 4.48V @Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		FREQ	IP3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(MHz)	(dBm)	(dBm)	(dB)
50	19.83	21.43	30.25	25.60	1.01	0.83	50	28.87	14.39	2.73
100	19.83	22.03	39.21	28.51	1.03	0.78	100	28.66	14.02	2.81
150	19.85	21.96	33.57	26.21	1.03	0.79	200	29.60	14.08	2.60
200	19.83	22.20	29.35	26.33	1.04	0.76	300	29.32	14.15	2.63
300	19.76	21.99	27.45	27.56	1.03	0.77	400	29.34	14.20	2.57
400	19.73	21.87	25.89	27.49	1.03	0.78	500	29.10	14.12	2.65
500	19.69	22.05	24.58	26.99	1.04	0.76	600	29.14	14.03	2.59
600	19.68	22.08	22.25	26.84	1.04	0.76	700	29.50	13.91	2.71
700	19.57	22.13	21.76	26.63	1.04	0.75	800	30.11	13.71	2.60
800	19.52	22.00	20.44	26.13	1.04	0.76	900	29.89	13.63	2.65
1000	19.42	22.15	18.74	25.36	1.04	0.74	1000	29.36	13.59	2.52
1200	19.27	22.25	17.48	23.31	1.05	0.72	1100	29.79	13.76	2.58
1400	19.11	22.32	16.45	21.93	1.06	0.70	1200	29.89	13.69	2.56
1600	18.94	22.54	15.66	20.72	1.08	0.68	1300	29.72	13.59	2.59
1800	18.77	22.56	14.79	19.13	1.08	0.67	1400	29.42	13.66	2.57
2000	18.60	22.68	13.95	18.12	1.09	0.65	1500	29.40	13.41	2.60
2200	18.39	22.76	13.50	17.40	1.10	0.63	1600	29.79	13.60	2.63
2400	18.28	23.01	13.02	16.56	1.12	0.61	1700	30.33	13.23	2.48
2600	18.04	23.10	12.14	15.80	1.13	0.60	1800	30.11	13.56	2.56
2800	17.86	23.42	11.99	15.30	1.16	0.57	1900	29.63	13.52	2.54
3000	17.73	23.42	11.47	15.02	1.17	0.56	2000	29.31	13.42	2.59
3200	17.49	23.68	11.20	15.11	1.20	0.53	2100	29.05	13.23	2.54
3400	17.48	23.82	10.83	14.69	1.21	0.53	2200	28.71	12.90	2.51
3600	17.37	24.05	10.48	14.36	1.22	0.51	2300	28.60	12.73	2.50
3800	17.24	24.19	10.26	14.37	1.24	0.50	2400	28.30	12.74	2.51
4000	17.19	24.44	10.38	14.46	1.27	0.48	2500	27.97	12.91	2.53
4200	17.13	24.60	10.00	14.50	1.28	0.47	2600	27.83	12.75	2.63
4400	17.13	24.74	10.09	13.80	1.28	0.46	2700	27.50	12.76	2.52
4600	17.02	24.76	10.22	13.91	1.30	0.45	2800	27.29	12.82	2.63
5000	17.06	25.16	10.20	12.98	1.32	0.43	2900	27.01	12.78	2.54
5500	17.02	24.99	11.39	10.90	1.28	0.42	3000	26.64	12.64	2.63
6000	17.18	24.80	12.43	9.31	1.21	0.43	3100	26.29	12.21	2.53
6500	17.68	24.79	13.69	7.57	1.11	0.45	3200	25.85	12.48	2.62
7000	17.70	24.65	20.01	5.48	1.00	0.44	3300	25.45	12.44	2.67
7500	17.21	24.22	39.18	4.32	0.93	0.45	3400	24.98	12.45	2.68
8000	15.57	24.25	18.49	4.13	1.01	0.38	3500	24.80	12.10	2.61
8500	13.30	23.00	15.38	5.02	1.17	0.33	3600	24.62	11.99	2.68
9000	11.25	23.94	13.87	5.52	1.62	0.27	3700	24.35	12.13	2.55
9500	9.41	22.15	11.56	5.36	1.50	0.23	3800	24.20	11.82	2.59
10000	7.64	20.99	10.18	5.77	1.57	0.19	4000	23.59	11.63	2.58

## 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: INPUT POWER = -25dBm, Icc = 32mA, Vd = 4.43V @Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		FREQ	IP3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(MHz)	(dBm)	(dBm)	(dB)
50	19.54	21.83	25.73	22.59	1.03	0.77	50	25.01	11.44	2.72
100	19.49	21.50	32.18	23.52	1.03	0.79	100	24.75	11.04	2.75
150	19.50	21.49	25.80	22.42	1.03	0.80	200	25.35	11.18	2.60
200	19.48	21.74	26.64	22.64	1.03	0.77	300	25.07	11.20	2.58
300	19.40	21.60	25.57	23.08	1.03	0.78	400	25.07	11.21	2.57
400	19.41	21.79	24.88	22.99	1.04	0.76	500	24.86	11.28	2.59
500	19.36	21.67	24.11	22.66	1.03	0.77	600	24.86	11.12	2.59
600	19.36	21.84	21.68	23.10	1.04	0.76	700	25.11	11.06	2.67
700	19.25	21.75	21.74	22.88	1.04	0.75	800	25.55	10.82	2.58
800	19.25	21.83	20.22	23.00	1.04	0.75	900	25.36	10.78	2.59
1000	19.10	22.00	18.70	22.85	1.05	0.72	1000	25.01	10.67	2.50
1200	18.97	21.98	17.59	21.53	1.05	0.72	1100	25.32	10.90	2.58
1400	18.82	22.17	16.44	20.46	1.07	0.69	1200	25.41	10.92	2.54
1600	18.68	22.27	15.75	19.59	1.08	0.68	1300	25.20	10.78	2.57
1800	18.53	22.30	14.78	18.05	1.08	0.67	1400	25.13	10.86	2.55
2000	18.36	22.51	13.90	17.12	1.10	0.65	1500	25.16	10.53	2.59
2200	18.18	22.74	13.44	16.30	1.11	0.62	1600	25.55	10.82	2.60
2400	18.02	22.80	12.92	15.70	1.12	0.61	1700	25.90	10.52	2.48
2600	17.83	23.05	12.07	14.92	1.14	0.59	1800	25.81	10.89	2.53
2800	17.63	23.19	11.89	14.44	1.16	0.57	1900	25.51	10.74	2.54
3000	17.50	23.28	11.37	14.06	1.17	0.56	2000	25.38	10.69	2.54
3200	17.29	23.53	11.08	14.14	1.20	0.54	2100	25.29	10.53	2.55
3400	17.27	23.68	10.66	13.77	1.20	0.53	2200	25.08	10.12	2.46
3600	17.17	23.82	10.32	13.51	1.22	0.52	2300	25.09	10.00	2.48
3800	17.05	24.12	10.11	13.51	1.25	0.50	2400	24.96	9.95	2.51
4000	16.99	24.19	10.26	13.54	1.26	0.49	2500	24.77	10.16	2.52
4200	16.96	24.39	9.85	13.57	1.27	0.47	2600	24.91	10.17	2.60
4400	16.95	24.49	9.92	13.03	1.27	0.47	2700	24.83	10.25	2.51
4600	16.85	24.66	10.18	13.11	1.30	0.45	2800	24.85	10.28	2.60
5000	16.92	25.01	10.11	12.32	1.31	0.43	2900	24.61	10.18	2.53
5500	16.87	24.76	11.35	10.43	1.26	0.43	3000	24.42	10.19	2.60
6000	17.02	24.58	12.33	8.89	1.19	0.43	3100	24.18	9.85	2.53
6500	17.50	24.47	14.15	7.18	1.09	0.45	3200	23.87	10.22	2.60
7000	17.57	24.25	19.47	5.28	0.96	0.44	3300	23.62	10.14	2.65
7500	17.01	24.01	31.64	4.12	0.90	0.44	3400	23.31	10.43	2.67
8000	15.35	23.79	17.97	4.12	0.97	0.38	3500	23.29	10.17	2.59
8500	13.08	22.98	14.98	4.98	1.18	0.32	3600	23.13	10.11	2.65
9000	11.13	24.32	13.29	5.22	1.64	0.26	3700	22.93	10.05	2.52
9500	9.20	21.94	11.29	5.23	1.46	0.22	3800	22.84	9.95	2.59
10000	7.37	20.93	10.07	5.87	1.61	0.19	4000	22.37	10.06	2.57

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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: INPUT POWER = -25dBm, Icc = 48mA, Vd = 4.52V @Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		FREQ	IP3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(MHz)	(dBm)	(dBm)	(dB)
50	20.07	22.19	29.93	29.04	1.03	0.78	50	32.03	16.55	2.77
100	20.02	21.92	32.01	33.74	1.02	0.80	100	31.89	16.19	2.86
150	20.03	22.25	35.78	32.66	1.03	0.77	200	33.45	16.39	2.62
200	20.01	22.09	28.84	32.16	1.03	0.79	300	33.11	16.35	2.68
300	19.94	22.10	26.71	32.86	1.03	0.78	400	33.12	16.37	2.57
400	19.94	22.16	25.64	32.06	1.03	0.78	500	33.05	16.36	2.68
500	19.87	22.13	23.93	30.61	1.03	0.77	600	33.13	16.21	2.61
600	19.88	22.16	21.91	30.28	1.03	0.77	700	33.76	16.12	2.75
700	19.76	22.25	21.43	29.19	1.04	0.75	800	34.70	15.89	2.62
800	19.73	22.20	20.24	27.98	1.04	0.76	900	34.45	15.74	2.67
1000	19.58	22.36	18.55	26.47	1.05	0.73	1000	33.42	15.70	2.54
1200	19.44	22.40	17.36	24.26	1.05	0.72	1100	34.31	15.83	2.62
1400	19.26	22.51	16.29	22.61	1.06	0.70	1200	34.18	15.80	2.58
1600	19.11	22.66	15.57	21.22	1.07	0.68	1300	34.17	15.69	2.63
1800	18.96	22.74	14.71	19.72	1.08	0.67	1400	33.36	15.74	2.61
2000	18.76	22.91	13.94	18.66	1.10	0.64	1500	33.18	15.49	2.63
2200	18.56	22.98	13.47	17.92	1.11	0.63	1600	33.45	15.57	2.67
2400	18.42	23.08	13.14	17.16	1.12	0.61	1700	34.44	15.26	2.51
2600	18.19	23.27	12.23	16.38	1.14	0.59	1800	34.16	15.52	2.60
2800	18.03	23.28	12.14	16.02	1.15	0.58	1900	33.17	15.48	2.57
3000	17.88	23.58	11.69	15.69	1.17	0.56	2000	32.60	15.30	2.64
3200	17.65	23.83	11.34	15.70	1.20	0.53	2100	32.06	15.11	2.58
3400	17.62	24.10	10.95	15.28	1.22	0.52	2200	31.45	14.82	2.55
3600	17.51	24.13	10.62	14.95	1.22	0.51	2300	31.26	14.68	2.54
3800	17.38	24.40	10.39	14.89	1.25	0.49	2400	30.72	14.57	2.59
4000	17.31	24.33	10.54	15.00	1.25	0.48	2500	30.08	14.59	2.57
4200	17.25	24.69	10.10	15.07	1.28	0.46	2600	29.66	14.43	2.67
4400	17.25	24.90	10.17	14.34	1.29	0.45	2700	29.16	14.39	2.57
4600	17.14	24.93	10.27	14.41	1.31	0.44	2800	28.81	14.33	2.68
5000	17.16	25.22	10.24	13.40	1.32	0.43	2900	28.31	14.15	2.57
5500	17.12	25.09	11.45	11.24	1.29	0.42	3000	27.91	13.95	2.68
6000	17.30	25.04	12.31	9.56	1.23	0.43	3100	27.44	13.29	2.58
6500	17.82	25.03	13.61	7.72	1.13	0.45	3200	26.92	13.64	2.67
7000	17.85	24.94	19.64	5.60	1.02	0.44	3300	26.39	13.52	2.72
7500	17.39	24.47	35.02	4.37	0.95	0.45	3400	25.90	13.43	2.73
8000	15.83	24.49	19.01	4.18	1.02	0.39	3500	25.69	13.11	2.65
8500	13.54	23.19	15.76	5.06	1.18	0.34	3600	25.41	12.87	2.72
9000	11.50	24.07	14.11	5.55	1.61	0.28	3700	25.11	13.14	2.57
9500	9.63	22.27	11.81	5.44	1.50	0.23	3800	24.92	12.74	2.62
10000	7.82	20.94	10.34	5.79	1.55	0.20	4000	24.27	12.41	2.62

## 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: INPUT POWER = -25dBm, Icc = 40mA, Vd = 4.07V @Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		FREQ	IP3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(MHz)	(dBm)	(dBm)	(dB)
50	19.75	21.99	29.01	24.71	1.03	0.77	50	28.09	14.57	3.46
100	19.71	22.08	37.55	26.13	1.04	0.76	100	27.79	14.23	3.63
150	19.75	22.41	30.17	25.85	1.05	0.74	200	28.60	14.53	3.44
200	19.70	21.70	28.57	25.90	1.02	0.80	300	28.03	14.42	3.57
300	19.62	21.97	27.06	25.54	1.04	0.76	400	27.85	14.48	3.47
400	19.60	21.92	25.48	25.21	1.03	0.77	500	27.42	14.46	3.59
500	19.55	22.04	23.96	24.90	1.04	0.75	600	27.32	14.35	3.54
600	19.53	21.99	21.82	24.76	1.04	0.76	700	27.52	14.19	3.68
700	19.42	22.16	21.37	24.30	1.05	0.73	800	28.00	13.88	3.55
800	19.39	22.29	20.04	23.98	1.05	0.72	900	27.83	13.85	3.61
1000	19.25	22.19	18.48	23.36	1.05	0.72	1000	27.24	13.74	3.49
1200	19.11	22.28	17.35	22.06	1.06	0.70	1100	27.58	13.86	3.56
1400	18.95	22.42	16.24	20.84	1.07	0.68	1200	27.60	13.69	3.54
1600	18.76	22.51	15.26	19.75	1.08	0.67	1300	27.26	13.63	3.56
1800	18.60	22.70	14.55	18.55	1.10	0.65	1400	26.99	13.69	3.60
2000	18.45	22.88	13.78	17.64	1.11	0.63	1500	26.78	13.48	3.60
2200	18.23	22.97	13.13	16.67	1.12	0.61	1600	27.13	13.57	3.64
2400	18.07	23.16	12.59	15.85	1.14	0.59	1700	27.53	13.24	3.52
2600	17.87	23.38	11.87	15.32	1.16	0.57	1800	27.24	13.51	3.56
2800	17.67	23.53	11.69	14.79	1.18	0.55	1900	26.62	13.34	3.59
3000	17.57	23.65	11.27	14.38	1.19	0.54	2000	26.31	13.26	3.60
3200	17.31	24.00	10.86	14.42	1.23	0.51	2100	26.01	13.05	3.57
3400	17.27	23.86	10.58	14.06	1.22	0.52	2200	25.69	12.66	3.54
3600	17.17	24.17	10.26	13.76	1.24	0.50	2300	25.53	12.57	3.52
3800	17.04	24.31	10.12	13.64	1.26	0.48	2400	25.17	12.44	3.60
4000	16.97	24.32	10.00	13.74	1.26	0.47	2500	24.67	12.61	3.58
4200	16.90	24.54	9.90	13.87	1.28	0.46	2600	24.46	12.30	3.67
4400	16.87	24.57	10.01	13.62	1.29	0.45	2700	24.03	12.21	3.58
4600	16.84	24.85	10.10	13.70	1.31	0.43	2800	23.76	12.20	3.65
5000	16.81	24.84	10.89	12.81	1.31	0.41	2900	23.39	12.03	3.61
5500	16.74	24.64	12.86	10.80	1.27	0.40	3000	23.17	11.89	3.64
6000	16.69	24.36	15.71	9.08	1.21	0.39	3100	22.83	11.19	3.63
6500	16.56	24.25	18.52	7.64	1.15	0.37	3200	22.54	11.65	3.72
7000	16.28	23.67	21.15	6.72	1.10	0.40	3300	22.26	11.39	3.70
7500	14.65	23.85	15.53	6.51	1.23	0.32	3400	21.94	11.34	3.79
8000	12.59	24.37	12.85	6.20	1.52	0.28	3500	21.93	10.93	3.69
8500	10.35	24.32	10.79	5.87	1.78	0.24	3600	21.80	10.56	3.78
9000	8.14	23.44	9.94	6.12	2.03	0.21	3700	21.60	10.57	3.65
9500	6.30	22.95	9.09	6.17	2.26	0.17	3800	21.52	10.02	3.67
10000	4.79	21.91	8.48	5.99	2.26	0.15	4000	20.90	9.61	3.66

## 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: INPUT POWER = -25dBm, Icc = 32mA, Vd = 4.02V @Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		FREQ	IP3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(MHz)	(dBm)	(dBm)	(dB)
50	19.34	21.89	25.22	19.29	1.04	0.75	50	24.64	11.87	3.45
100	19.31	21.84	27.89	21.38	1.04	0.75	100	24.38	11.39	3.56
150	19.31	21.63	24.15	21.12	1.03	0.77	200	24.95	11.64	3.46
200	19.30	21.72	25.23	21.20	1.04	0.76	300	24.48	11.61	3.50
300	19.19	21.90	24.33	21.33	1.05	0.74	400	24.37	11.59	3.49
400	19.19	21.84	22.97	21.05	1.04	0.74	500	24.00	11.68	3.55
500	19.12	21.64	22.48	20.88	1.04	0.75	600	23.94	11.42	3.52
600	19.11	21.78	20.72	21.01	1.04	0.74	700	24.12	11.44	3.64
700	19.00	21.92	20.61	20.84	1.05	0.72	800	24.58	10.99	3.53
800	19.00	21.79	19.38	20.34	1.05	0.73	900	24.38	11.10	3.56
1000	18.90	21.83	18.12	20.38	1.05	0.72	1000	23.91	10.95	3.46
1200	18.76	22.03	17.07	19.53	1.06	0.70	1100	24.23	11.19	3.52
1400	18.58	22.22	16.02	18.69	1.08	0.68	1200	24.28	11.04	3.53
1600	18.42	22.23	15.02	17.68	1.08	0.67	1300	24.04	10.95	3.54
1800	18.29	22.43	14.32	16.71	1.10	0.65	1400	23.85	11.06	3.56
2000	18.11	22.54	13.56	15.99	1.11	0.63	1500	23.83	10.71	3.57
2200	17.93	22.58	13.00	15.25	1.12	0.62	1600	24.14	10.93	3.59
2400	17.78	22.78	12.36	14.59	1.13	0.60	1700	24.51	10.62	3.50
2600	17.57	23.26	11.65	14.12	1.17	0.57	1800	24.31	10.99	3.50
2800	17.40	23.20	11.42	13.55	1.17	0.56	1900	23.92	10.88	3.57
3000	17.26	23.52	10.98	13.23	1.20	0.54	2000	23.69	10.81	3.56
3200	17.07	23.62	10.62	13.21	1.21	0.53	2100	23.49	10.58	3.54
3400	17.02	23.68	10.29	12.91	1.21	0.52	2200	23.24	10.05	3.49
3600	16.94	23.95	10.00	12.55	1.23	0.50	2300	23.20	10.16	3.51
3800	16.80	24.03	9.88	12.45	1.24	0.49	2400	22.94	10.00	3.55
4000	16.74	24.14	9.76	12.68	1.25	0.48	2500	22.61	10.31	3.56
4200	16.68	24.29	9.65	12.75	1.27	0.46	2600	22.60	10.08	3.61
4400	16.66	24.35	9.68	12.60	1.26	0.45	2700	22.32	10.16	3.54
4600	16.64	24.62	9.81	12.57	1.29	0.44	2800	22.16	10.24	3.62
5000	16.64	24.49	10.59	11.84	1.27	0.42	2900	21.83	10.16	3.55
5500	16.58	24.43	12.55	10.15	1.25	0.40	3000	21.68	10.08	3.55
6000	16.51	23.95	15.12	8.54	1.16	0.40	3100	21.36	9.48	3.61
6500	16.40	23.78	17.32	7.18	1.09	0.37	3200	21.14	10.04	3.68
7000	16.07	23.36	19.26	6.40	1.05	0.39	3300	20.93	10.00	3.67
7500	14.41	23.46	14.84	6.27	1.18	0.32	3400	20.66	10.05	3.74
8000	12.37	23.97	12.53	6.03	1.46	0.27	3500	20.66	9.63	3.66
8500	10.13	23.96	10.61	5.73	1.72	0.23	3600	20.54	9.42	3.74
9000	7.91	23.23	9.82	5.98	2.00	0.20	3700	20.33	9.45	3.59
9500	6.09	22.79	9.00	6.05	2.24	0.17	3800	20.23	8.97	3.64
10000	4.55	21.76	8.36	5.90	2.25	0.15	4000	19.64	8.70	3.63



## Typical Performance Data

### Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

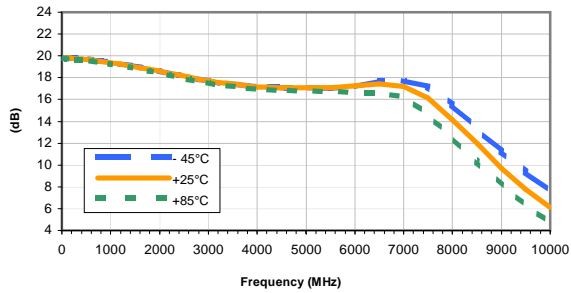
TEST CONDITIONS: INPUT POWER = -25dBm, Icc = 48mA, Vd = 4.11V @Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		FREQ	IP3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(MHz)	(dBm)	(dBm)	(dB)
50	19.99	22.61	30.00	29.06	1.04	0.74	50	30.88	16.64	3.48
100	19.97	22.16	33.33	31.62	1.03	0.78	100	30.70	16.35	3.67
150	19.99	22.38	34.75	29.70	1.04	0.76	200	31.62	16.52	3.48
200	19.97	22.24	28.66	30.83	1.03	0.77	300	31.01	16.44	3.60
300	19.87	22.25	27.15	30.84	1.04	0.76	400	30.72	16.45	3.48
400	19.87	22.41	25.74	29.41	1.04	0.75	500	30.23	16.42	3.64
500	19.79	22.25	24.22	28.71	1.04	0.75	600	30.10	16.30	3.53
600	19.78	22.22	21.91	28.29	1.04	0.76	700	30.27	16.17	3.73
700	19.66	22.30	21.49	27.53	1.04	0.74	800	30.81	15.95	3.57
800	19.62	22.31	20.11	26.53	1.04	0.74	900	30.60	15.90	3.62
1000	19.48	22.42	18.45	25.51	1.05	0.72	1000	29.80	15.80	3.48
1200	19.32	22.42	17.41	23.80	1.06	0.71	1100	30.27	15.79	3.58
1400	19.18	22.67	16.28	22.23	1.07	0.68	1200	30.18	15.70	3.58
1600	18.97	22.69	15.31	20.84	1.08	0.67	1300	29.75	15.56	3.60
1800	18.83	22.79	14.63	19.58	1.09	0.65	1400	29.26	15.58	3.60
2000	18.63	22.93	13.93	18.56	1.10	0.63	1500	29.00	15.30	3.59
2200	18.42	23.20	13.34	17.63	1.13	0.60	1600	29.34	15.35	3.66
2400	18.26	23.28	12.84	16.71	1.14	0.59	1700	29.83	15.01	3.52
2600	18.04	23.43	12.06	16.14	1.16	0.57	1800	29.31	15.18	3.59
2800	17.85	23.60	11.87	15.52	1.18	0.55	1900	28.57	15.02	3.59
3000	17.75	23.78	11.44	15.16	1.19	0.54	2000	28.17	14.91	3.64
3200	17.49	23.94	11.04	15.14	1.22	0.52	2100	27.74	14.72	3.60
3400	17.45	24.01	10.74	14.78	1.22	0.51	2200	27.34	14.45	3.59
3600	17.33	24.38	10.46	14.43	1.25	0.49	2300	27.12	14.21	3.54
3800	17.20	24.37	10.29	14.32	1.26	0.48	2400	26.62	13.88	3.65
4000	17.12	24.40	10.21	14.39	1.26	0.47	2500	26.12	13.98	3.59
4200	17.07	24.73	10.11	14.57	1.29	0.45	2600	25.71	13.53	3.71
4400	17.01	24.73	10.18	14.32	1.30	0.45	2700	25.22	13.31	3.61
4600	16.99	24.84	10.24	14.30	1.30	0.43	2800	24.86	13.23	3.70
5000	16.94	25.21	11.01	13.35	1.34	0.40	2900	24.50	13.02	3.63
5500	16.88	24.97	13.08	11.23	1.31	0.40	3000	24.23	12.81	3.66
6000	16.84	24.71	16.01	9.36	1.25	0.39	3100	23.90	12.06	3.65
6500	16.75	24.50	19.48	7.79	1.17	0.37	3200	23.57	12.41	3.73
7000	16.52	23.82	22.98	6.85	1.11	0.41	3300	23.27	12.18	3.75
7500	14.87	24.18	16.19	6.61	1.26	0.32	3400	22.97	12.07	3.79
8000	12.81	24.56	13.08	6.20	1.53	0.28	3500	22.96	11.64	3.72
8500	10.58	24.58	10.88	5.89	1.80	0.24	3600	22.84	11.34	3.81
9000	8.36	23.62	10.01	6.09	2.02	0.21	3700	22.66	11.32	3.68
9500	6.51	23.09	9.21	6.18	2.26	0.18	3800	22.66	10.70	3.69
10000	5.00	21.98	8.58	6.05	2.25	0.16	4000	21.99	10.14	3.67

## Typical Performance Curves

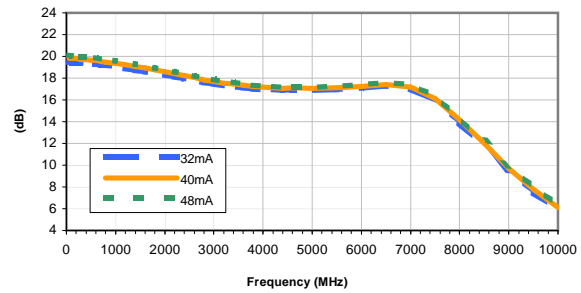
### GAIN vs. TEMPERATURE

INPUT POWER = -25dBm, CURRENT = 40mA



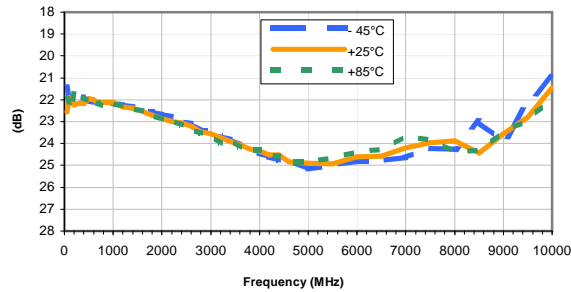
### GAIN vs. CURRENT

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



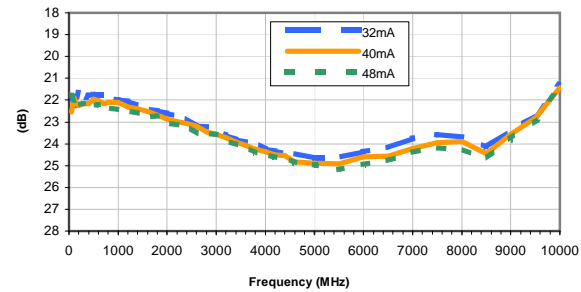
### ISOLATION vs. TEMPERATURE

INPUT POWER = -25dBm, CURRENT = 40mA



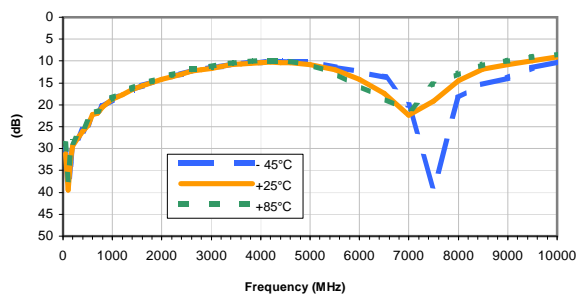
### ISOLATION vs. CURRENT

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



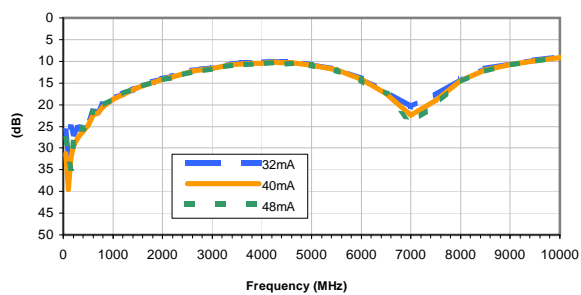
### INPUT RETURN LOSS vs. TEMPERATURE

INPUT POWER = -25dBm, CURRENT = 40mA



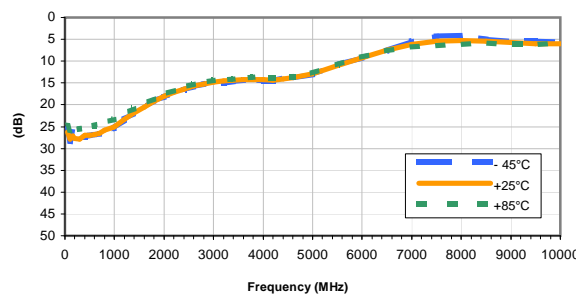
### INPUT RETURN LOSS vs. CURRENT

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



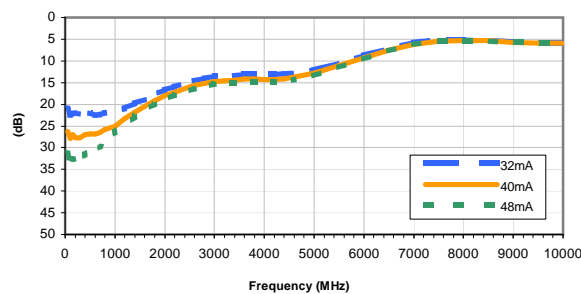
### OUTPUT RETURN LOSS vs. TEMPERATURE

INPUT POWER = -25dBm, CURRENT = 40mA



### OUTPUT RETURN LOSS vs. CURRENT

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



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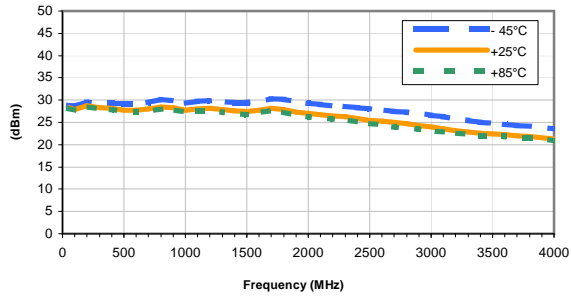
The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



## Typical Performance Curves

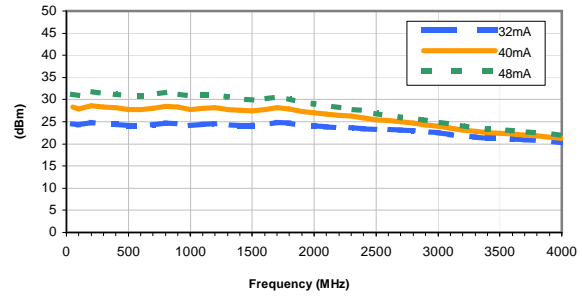
**OUTPUT IP3 vs. TEMPERATURE**

INPUT POWER = -25dBm, CURRENT = 40mA



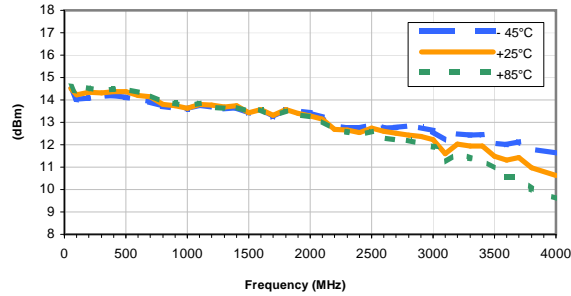
**OUTPUT IP3 vs. CURRENT**

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



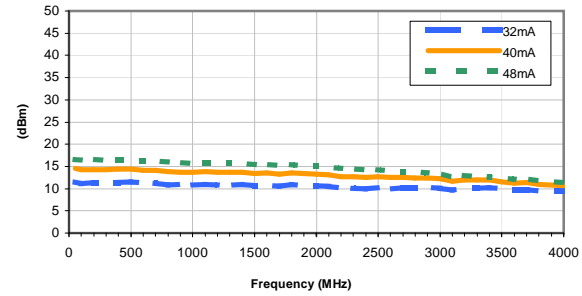
**OUTPUT POWER at 1dB Compression vs. TEMPERATURE**

CURRENT = 40mA



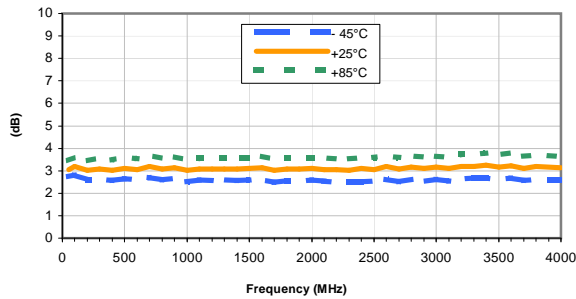
**OUTPUT POWER at 1dB Compression vs. CURRENT**

Temperature = +25°C



**Noise Figure vs. TEMPERATURE**

CURRENT = 40mA



**Noise Figure vs. CURRENT**

Temperature = +25°C

