

## 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: I = 74mA, Vd = 3.9V @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)
200	-1.15	56.70	0.38	0.58	3.22	0.89	500	28.42	16.90	4.79
250	3.41	53.52	0.66	1.05	4.13	0.82	550	28.72	17.43	4.85
300	6.93	50.24	1.12	1.68	4.67	0.72	600	28.87	17.61	4.82
350	9.59	46.39	1.77	2.48	4.48	0.60	650	28.95	17.64	4.69
400	11.51	44.01	2.66	3.41	4.76	0.47	700	29.02	17.77	4.64
450	12.90	41.74	3.69	4.38	4.66	0.36	750	29.02	17.76	4.67
500	13.83	40.48	4.87	5.40	4.88	0.26	800	29.06	17.82	4.77
550	14.47	39.72	6.16	6.44	5.17	0.19	850	29.09	17.92	4.76
600	14.89	39.05	7.52	7.47	5.33	0.13	900	29.16	17.63	4.69
650	15.20	38.31	8.95	8.46	5.29	0.10	940	29.02	17.66	4.70
700	15.38	37.79	10.42	9.47	5.30	0.08	1000	28.92	17.46	4.76
750	15.50	37.25	11.92	10.40	5.21	0.08	1050	28.72	17.44	4.78
800	15.58	37.05	13.35	11.37	5.27	0.09	1100	28.75	17.34	4.78
900	15.65	36.20	15.78	13.07	4.99	0.11	1150	28.64	17.17	4.79
1000	15.68	35.62	16.92	14.60	4.77	0.12	1200	28.72	17.20	4.78
1100	15.69	34.94	16.65	15.91	4.45	0.13	1250	28.71	17.00	4.76
1200	15.69	34.42	15.79	16.93	4.20	0.14	1300	28.53	16.97	4.82
1300	15.68	33.86	14.97	17.34	3.93	0.14	1350	28.41	16.88	4.83
1400	15.68	33.34	14.36	17.33	3.70	0.15	1400	28.50	16.91	4.83
1500	15.66	32.86	13.99	16.91	3.49	0.15	1450	28.61	16.74	4.95
1600	15.64	32.50	13.88	16.27	3.34	0.15	1500	28.56	16.66	4.92
1700	15.59	32.03	13.97	15.43	3.17	0.16	1550	28.82	16.61	4.90
1800	15.50	31.68	14.33	14.48	3.07	0.16	1600	28.79	16.38	4.81
1900	15.38	31.48	14.82	13.54	3.03	0.16	1650	28.70	16.36	4.79
2000	15.18	31.26	15.36	12.64	3.00	0.16	1700	28.48	16.15	4.79
2100	14.93	31.10	15.72	11.80	3.01	0.17	1750	28.33	16.08	4.85
2200	14.59	31.08	15.70	11.08	3.08	0.17	1800	28.22	15.95	4.86
2300	14.21	31.12	15.19	10.46	3.19	0.18	1850	28.06	15.94	4.86
2400	13.75	31.28	14.29	9.98	3.37	0.18	1900	28.01	15.81	4.90
2500	13.22	31.50	13.15	9.59	3.59	0.18	1950	27.90	15.78	4.95
2600	12.65	31.64	12.00	9.30	3.81	0.19	2000	27.95	15.70	4.89
2800	11.39	32.21	9.99	8.92	4.46	0.20	2050	27.90	15.59	4.85
3000	10.01	32.90	8.41	8.72	5.33	0.21	2100	27.85	15.50	4.90
3200	8.59	33.62	7.23	8.69	6.43	0.21	2150	27.85	15.49	5.00
3400	7.19	34.20	6.32	8.72	7.63	0.22	2200	27.82	15.42	4.94
3600	5.78	34.79	5.60	8.80	9.07	0.22	2250	27.82	15.54	4.95
3800	4.42	35.34	4.99	8.94	10.68	0.23	2300	27.86	15.44	5.07
4000	3.09	35.89	4.48	9.04	12.51	0.23	2350	27.92	15.42	5.10
4200	1.78	36.53	4.04	9.16	14.73	0.24	2400	27.94	15.42	5.09
4600	-0.75	37.44	3.35	9.37	19.52	0.24	2500	28.00	15.28	5.01

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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: I = 71mA, Vd = 2.8V @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)
200	-1.54	65.01	0.39	0.59	10.69	0.89	500	25.09	13.95	4.83
250	2.95	58.38	0.67	1.05	8.37	0.82	550	25.34	14.45	4.90
300	6.38	50.95	1.12	1.68	5.51	0.72	600	25.54	14.76	4.84
350	8.97	47.61	1.78	2.45	5.62	0.60	650	25.65	14.73	4.73
400	10.81	44.44	2.65	3.34	5.40	0.48	700	25.73	15.02	4.68
450	12.14	42.37	3.70	4.26	5.44	0.37	750	25.80	15.00	4.72
500	13.02	40.95	4.87	5.19	5.58	0.28	800	25.90	15.17	4.79
550	13.62	39.88	6.15	6.12	5.69	0.20	850	25.94	15.32	4.80
600	14.01	39.24	7.52	7.04	5.90	0.15	900	26.08	15.15	4.72
650	14.28	38.29	8.94	7.87	5.72	0.11	940	25.95	15.29	4.73
700	14.44	37.73	10.39	8.71	5.72	0.09	1000	25.93	15.04	4.78
750	14.53	37.25	11.84	9.44	5.67	0.09	1050	25.79	15.23	4.79
800	14.60	36.81	13.25	10.17	5.58	0.09	1100	25.86	15.06	4.80
900	14.65	35.92	15.59	11.37	5.28	0.11	1150	25.82	15.06	4.82
1000	14.67	35.11	16.71	12.36	4.92	0.12	1200	26.01	15.10	4.82
1100	14.66	34.44	16.58	13.15	4.62	0.13	1250	26.04	14.98	4.81
1200	14.66	33.84	15.83	13.72	4.33	0.14	1300	25.93	15.05	4.86
1300	14.66	33.23	15.06	13.94	4.04	0.15	1350	25.89	14.89	4.85
1400	14.66	32.65	14.49	13.97	3.76	0.15	1400	26.01	15.12	4.87
1500	14.65	32.02	14.13	13.75	3.49	0.16	1450	26.26	14.88	4.98
1600	14.64	31.58	14.00	13.41	3.31	0.16	1500	26.24	14.94	4.95
1700	14.62	31.11	14.05	12.87	3.13	0.17	1550	26.52	14.78	4.92
1800	14.55	30.71	14.31	12.21	3.00	0.17	1600	26.52	14.68	4.81
1900	14.45	30.43	14.68	11.47	2.92	0.18	1650	26.46	14.73	4.82
2000	14.28	30.10	15.00	10.72	2.83	0.18	1700	26.25	14.47	4.81
2100	14.03	29.92	15.08	9.97	2.82	0.19	1750	26.10	14.51	4.89
2200	13.70	29.81	14.75	9.29	2.83	0.20	1800	26.03	14.34	4.89
2300	13.32	29.91	14.06	8.70	2.93	0.20	1850	25.90	14.39	4.90
2400	12.84	30.02	13.10	8.23	3.05	0.21	1900	25.87	14.22	4.90
2500	12.29	30.22	12.01	7.84	3.23	0.22	1950	25.74	14.28	4.99
2600	11.69	30.49	10.94	7.55	3.46	0.22	2000	25.83	14.21	4.89
2800	10.33	31.03	9.13	7.14	4.02	0.24	2050	25.80	14.06	4.86
3000	8.86	31.64	7.74	6.94	4.76	0.25	2100	25.77	14.04	4.92
3200	7.35	32.43	6.70	6.92	5.83	0.26	2150	25.72	14.00	5.02
3400	5.86	33.13	5.91	6.94	7.07	0.27	2200	25.69	13.98	4.95
3600	4.39	33.89	5.27	7.00	8.64	0.27	2250	25.74	14.04	4.96
3800	2.95	34.47	4.74	7.13	10.33	0.28	2300	25.75	14.02	5.09
4000	1.57	34.97	4.28	7.23	12.14	0.28	2350	25.78	13.97	5.14
4200	0.21	35.68	3.88	7.33	14.54	0.29	2400	25.75	13.95	5.09
4600	-2.39	36.71	3.26	7.54	19.85	0.30	2500	25.78	13.78	5.01

## 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: I = 77mA, Vd = 5V @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)
200	-0.96	63.56	0.38	0.58	8.01	0.89	500	30.49	18.50	4.76
250	3.65	55.71	0.67	1.05	5.44	0.82	550	30.85	19.06	4.83
300	7.22	48.65	1.12	1.68	3.65	0.72	600	31.02	19.20	4.78
350	9.93	45.84	1.78	2.49	4.00	0.60	650	31.09	19.23	4.68
400	11.89	43.49	2.66	3.46	4.30	0.47	700	31.07	19.29	4.61
450	13.31	41.78	3.70	4.46	4.51	0.35	750	31.17	19.30	4.66
500	14.28	40.31	4.88	5.55	4.60	0.25	800	31.14	19.22	4.76
550	14.96	39.43	6.16	6.65	4.79	0.17	850	31.14	19.31	4.75
600	15.41	38.64	7.52	7.78	4.86	0.12	900	31.18	18.90	4.67
650	15.73	38.11	8.94	8.89	4.94	0.08	940	31.03	18.81	4.69
700	15.93	37.83	10.43	10.04	5.08	0.07	1000	30.87	18.69	4.74
750	16.06	37.36	11.92	11.15	5.02	0.08	1050	30.66	18.56	4.76
800	16.16	37.03	13.37	12.30	4.99	0.09	1100	30.63	18.53	4.76
900	16.24	36.34	15.82	14.49	4.80	0.11	1150	30.50	18.28	4.79
1000	16.28	35.89	16.95	16.67	4.65	0.12	1200	30.51	18.28	4.78
1100	16.29	35.30	16.63	18.80	4.38	0.13	1250	30.42	18.06	4.76
1200	16.30	34.87	15.71	20.76	4.17	0.13	1300	30.19	18.02	4.83
1300	16.28	34.39	14.85	21.68	3.94	0.14	1350	30.08	17.91	4.82
1400	16.27	33.81	14.25	21.57	3.67	0.14	1400	30.06	17.90	4.84
1500	16.25	33.42	13.88	20.59	3.50	0.14	1450	30.14	17.81	4.92
1600	16.21	33.13	13.79	19.44	3.39	0.14	1500	30.04	17.65	4.91
1700	16.15	32.77	13.92	18.07	3.27	0.15	1550	30.24	17.65	4.89
1800	16.05	32.54	14.32	16.76	3.21	0.15	1600	30.22	17.39	4.81
1900	15.90	32.31	14.90	15.58	3.18	0.15	1650	30.12	17.33	4.79
2000	15.69	32.23	15.56	14.56	3.22	0.15	1700	29.92	17.14	4.80
2100	15.42	32.12	16.10	13.62	3.27	0.15	1750	29.72	17.02	4.86
2200	15.07	32.16	16.27	12.85	3.39	0.15	1800	29.63	16.98	4.87
2300	14.68	32.26	15.93	12.22	3.55	0.15	1850	29.47	16.86	4.87
2400	14.22	32.31	15.07	11.77	3.72	0.16	1900	29.40	16.81	4.89
2500	13.70	32.57	13.92	11.38	4.00	0.16	1950	29.29	16.72	4.94
2600	13.14	32.92	12.70	11.12	4.36	0.16	2000	29.29	16.69	4.89
2800	11.92	33.41	10.58	10.78	5.08	0.16	2050	29.29	16.49	4.85
3000	10.61	34.02	8.90	10.61	6.02	0.17	2100	29.18	16.45	4.92
3200	9.25	34.72	7.62	10.60	7.23	0.17	2150	29.23	16.47	4.98
3400	7.91	35.32	6.64	10.66	8.55	0.18	2200	29.16	16.33	4.94
3600	6.57	35.80	5.85	10.76	9.96	0.18	2250	29.19	16.47	4.95
3800	5.27	36.31	5.19	10.92	11.59	0.18	2300	29.16	16.38	5.08
4000	3.98	36.71	4.64	11.02	13.27	0.19	2350	29.29	16.38	5.09
4200	2.71	37.24	4.16	11.13	15.32	0.19	2400	29.28	16.29	5.09
4600	0.27	38.02	3.43	11.35	19.69	0.19	2500	29.41	16.27	5.02

## 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: I = 70mA, Vd = 3.9V @Temperature = -40degC

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)
200	-1.01	62.13	0.32	0.54	5.34	0.91	500	28.45	17.00	4.03
250	3.64	55.98	0.57	0.98	4.50	0.83	550	28.75	17.51	4.08
300	7.24	50.38	1.01	1.59	3.92	0.74	600	28.93	17.70	4.07
350	9.94	46.59	1.65	2.36	3.91	0.62	650	29.01	17.67	3.99
400	11.88	44.07	2.51	3.26	4.22	0.49	700	29.05	17.89	3.88
450	13.30	42.17	3.55	4.20	4.41	0.37	750	29.09	17.84	3.92
500	14.26	41.01	4.72	5.18	4.73	0.27	800	29.12	17.86	4.03
550	14.92	39.92	6.01	6.19	4.86	0.19	850	29.10	17.98	4.02
600	15.37	38.96	7.38	7.18	4.87	0.13	900	29.21	17.70	3.94
650	15.68	38.50	8.80	8.14	5.01	0.10	940	29.04	17.71	3.94
700	15.87	38.04	10.28	9.11	5.07	0.08	1000	28.95	17.50	3.97
750	15.99	37.48	11.78	10.02	4.99	0.08	1050	28.78	17.50	4.00
800	16.09	37.26	13.24	10.96	5.04	0.09	1100	28.78	17.45	4.03
900	16.18	36.46	15.80	12.63	4.81	0.11	1150	28.66	17.27	4.03
1000	16.22	35.79	17.13	14.14	4.55	0.12	1200	28.74	17.30	4.03
1100	16.23	35.21	16.98	15.41	4.31	0.14	1250	28.73	17.09	4.00
1200	16.25	34.63	16.17	16.50	4.04	0.14	1300	28.56	17.07	4.06
1300	16.26	34.09	15.31	17.07	3.79	0.15	1350	28.47	16.92	4.06
1400	16.27	33.61	14.61	17.26	3.57	0.16	1400	28.50	17.02	4.06
1500	16.27	33.10	14.12	17.01	3.36	0.16	1450	28.65	16.85	4.17
1600	16.26	32.74	13.95	16.50	3.21	0.16	1500	28.58	16.78	4.14
1700	16.23	32.33	14.03	15.72	3.07	0.17	1550	28.84	16.71	4.15
1800	16.16	31.94	14.34	14.81	2.95	0.17	1600	28.79	16.52	4.06
1900	16.06	31.57	14.80	13.84	2.85	0.17	1650	28.70	16.47	4.02
2000	15.90	31.41	15.36	12.90	2.84	0.18	1700	28.47	16.21	3.99
2100	15.67	31.28	15.77	12.00	2.84	0.18	1750	28.31	16.20	4.06
2200	15.37	31.30	15.77	11.23	2.91	0.18	1800	28.21	15.98	4.12
2300	15.01	31.24	15.29	10.55	2.97	0.19	1850	28.06	15.97	4.10
2400	14.57	31.41	14.48	10.03	3.13	0.19	1900	28.01	15.83	4.10
2500	14.07	31.51	13.41	9.57	3.28	0.19	1950	27.88	15.82	4.17
2600	13.53	31.63	12.20	9.20	3.46	0.20	2000	27.92	15.77	4.11
2800	12.31	32.19	10.15	8.80	4.02	0.21	2050	27.90	15.63	4.05
3000	10.97	32.80	8.51	8.57	4.74	0.22	2100	27.84	15.54	4.11
3200	9.57	33.56	7.25	8.50	5.70	0.22	2150	27.82	15.53	4.18
3400	8.17	34.14	6.30	8.50	6.73	0.23	2200	27.76	15.42	4.15
3600	6.79	34.58	5.54	8.57	7.81	0.24	2250	27.77	15.55	4.16
3800	5.43	35.20	4.91	8.68	9.23	0.24	2300	27.80	15.48	4.26
4000	4.09	35.55	4.37	8.80	10.51	0.25	2350	27.86	15.48	4.29
4200	2.79	36.06	3.91	8.88	12.13	0.25	2400	27.86	15.50	4.27
4600	0.26	36.86	3.24	9.03	15.78	0.26	2500	27.97	15.36	4.20

## 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: I = 66mA, Vd = 2.8V @Temperature = -40degC

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)
200	-1.41	64.07	0.32	0.54	6.99	0.90	500	25.24	14.12	4.09
250	3.17	55.74	0.58	1.00	4.78	0.83	550	25.49	14.47	4.16
300	6.68	51.13	1.01	1.60	4.68	0.73	600	25.67	14.74	4.14
350	9.31	47.11	1.65	2.35	4.55	0.62	650	25.81	14.69	4.03
400	11.19	44.45	2.50	3.22	4.78	0.50	700	25.86	15.00	3.93
450	12.54	42.71	3.54	4.10	5.09	0.38	750	25.94	14.95	3.97
500	13.45	41.12	4.71	5.02	5.19	0.29	800	25.99	15.20	4.06
550	14.07	40.12	6.01	5.93	5.39	0.21	850	26.02	15.35	4.08
600	14.48	39.20	7.37	6.82	5.44	0.15	900	26.15	15.16	3.99
650	14.76	38.49	8.80	7.63	5.44	0.11	940	26.03	15.29	3.99
700	14.92	37.99	10.27	8.44	5.49	0.09	1000	26.00	15.06	4.05
750	15.02	37.41	11.75	9.18	5.40	0.09	1050	25.84	15.20	4.07
800	15.10	37.00	13.17	9.90	5.34	0.09	1100	25.93	15.09	4.08
900	15.15	36.02	15.63	11.09	5.01	0.11	1150	25.86	15.07	4.09
1000	15.18	35.42	16.94	12.09	4.80	0.12	1200	26.01	15.11	4.08
1100	15.19	34.68	16.87	12.87	4.47	0.14	1250	26.04	14.97	4.05
1200	15.20	34.00	16.15	13.46	4.15	0.15	1300	25.91	14.98	4.14
1300	15.20	33.44	15.35	13.75	3.89	0.15	1350	25.88	14.81	4.13
1400	15.21	32.81	14.68	13.86	3.60	0.16	1400	25.99	15.07	4.12
1500	15.22	32.24	14.21	13.74	3.36	0.17	1450	26.22	14.76	4.24
1600	15.22	31.77	14.02	13.46	3.18	0.17	1500	26.18	14.84	4.22
1700	15.21	31.27	14.06	12.97	2.99	0.18	1550	26.46	14.61	4.18
1800	15.16	30.86	14.28	12.36	2.86	0.18	1600	26.43	14.58	4.08
1900	15.08	30.53	14.62	11.64	2.76	0.19	1650	26.34	14.51	4.05
2000	14.94	30.23	14.96	10.88	2.69	0.19	1700	26.13	14.27	4.04
2100	14.72	30.02	15.09	10.10	2.65	0.20	1750	25.99	14.32	4.12
2200	14.42	29.98	14.79	9.39	2.68	0.21	1800	25.91	14.12	4.15
2300	14.07	29.95	14.08	8.77	2.72	0.21	1850	25.75	14.15	4.13
2400	13.62	30.02	13.20	8.25	2.81	0.22	1900	25.74	13.95	4.16
2500	13.10	30.17	12.15	7.80	2.95	0.23	1950	25.60	13.95	4.22
2600	12.53	30.41	11.05	7.43	3.12	0.24	2000	25.69	13.85	4.15
2800	11.22	30.92	9.21	7.00	3.59	0.25	2050	25.65	13.78	4.09
3000	9.80	31.49	7.76	6.79	4.21	0.26	2100	25.60	13.70	4.16
3200	8.30	32.33	6.66	6.71	5.13	0.27	2150	25.55	13.71	4.23
3400	6.83	32.94	5.82	6.70	6.11	0.28	2200	25.52	13.64	4.18
3600	5.36	33.59	5.19	6.77	7.35	0.29	2250	25.56	13.73	4.20
3800	3.93	34.07	4.63	6.87	8.64	0.29	2300	25.56	13.75	4.32
4000	2.54	34.56	4.15	6.96	10.06	0.30	2350	25.61	13.71	4.34
4200	1.18	35.14	3.75	7.04	11.83	0.31	2400	25.58	13.73	4.29
4600	-1.42	36.25	3.13	7.18	16.15	0.32	2500	25.63	13.65	4.26

## 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: I = 74mA, Vd = 5V @Temperature = -40degC

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)
200	-0.82	60.72	0.32	0.53	4.11	0.91	500	30.62	18.51	3.99
250	3.88	57.45	0.57	0.98	5.12	0.83	550	31.05	19.07	4.07
300	7.52	51.71	1.00	1.59	4.51	0.74	600	31.26	19.17	4.05
350	10.28	46.71	1.65	2.37	3.82	0.62	650	31.29	19.20	3.96
400	12.27	43.85	2.52	3.30	3.95	0.49	700	31.33	19.24	3.87
450	13.72	42.19	3.55	4.27	4.24	0.37	750	31.36	19.28	3.88
500	14.72	40.70	4.73	5.30	4.37	0.27	800	31.35	19.19	3.99
550	15.41	39.76	6.02	6.37	4.56	0.18	850	31.29	19.28	4.00
600	15.88	38.86	7.37	7.44	4.60	0.12	900	31.34	18.89	3.91
650	16.21	38.31	8.80	8.50	4.68	0.09	940	31.19	18.82	3.93
700	16.42	37.98	10.29	9.58	4.79	0.07	1000	31.09	18.66	3.96
750	16.56	37.60	11.79	10.62	4.81	0.08	1050	30.89	18.61	3.99
800	16.66	37.21	13.27	11.74	4.76	0.09	1100	30.85	18.56	4.00
900	16.76	36.50	15.85	13.81	4.58	0.11	1150	30.72	18.32	4.00
1000	16.82	36.06	17.17	15.84	4.44	0.12	1200	30.68	18.35	4.01
1100	16.85	35.48	16.98	17.78	4.19	0.13	1250	30.62	18.14	3.98
1200	16.87	35.09	16.10	19.65	4.01	0.14	1300	30.42	18.11	4.06
1300	16.87	34.61	15.20	20.89	3.79	0.14	1350	30.30	17.99	4.04
1400	16.88	34.10	14.49	21.32	3.56	0.15	1400	30.30	17.98	4.05
1500	16.87	33.71	14.02	20.80	3.39	0.15	1450	30.35	17.91	4.14
1600	16.85	33.29	13.85	19.84	3.23	0.15	1500	30.27	17.77	4.13
1700	16.81	33.06	13.97	18.55	3.15	0.15	1550	30.45	17.75	4.13
1800	16.73	32.74	14.32	17.21	3.06	0.16	1600	30.39	17.51	4.05
1900	16.62	32.52	14.87	15.95	3.02	0.16	1650	30.32	17.51	4.01
2000	16.43	32.29	15.55	14.83	3.00	0.16	1700	30.13	17.30	3.99
2100	16.18	32.26	16.16	13.80	3.06	0.16	1750	29.94	17.22	4.06
2200	15.87	32.25	16.37	12.98	3.14	0.16	1800	29.81	17.11	4.10
2300	15.50	32.32	16.04	12.29	3.27	0.17	1850	29.66	17.04	4.10
2400	15.06	32.49	15.32	11.75	3.46	0.17	1900	29.57	16.93	4.07
2500	14.57	32.69	14.23	11.30	3.69	0.17	1950	29.46	16.87	4.15
2600	14.04	32.90	12.97	10.93	3.94	0.17	2000	29.48	16.82	4.08
2800	12.86	33.38	10.79	10.58	4.57	0.18	2050	29.44	16.67	4.05
3000	11.57	33.84	9.02	10.39	5.30	0.18	2100	29.40	16.59	4.10
3200	10.24	34.60	7.66	10.35	6.36	0.18	2150	29.40	16.61	4.17
3400	8.90	35.10	6.62	10.38	7.41	0.19	2200	29.32	16.46	4.14
3600	7.57	35.72	5.81	10.48	8.75	0.19	2250	29.35	16.60	4.15
3800	6.27	36.00	5.14	10.60	9.89	0.20	2300	29.35	16.50	4.26
4000	4.98	36.47	4.55	10.72	11.32	0.20	2350	29.40	16.45	4.25
4200	3.73	36.90	4.05	10.81	12.85	0.20	2400	29.42	16.42	4.24
4600	1.29	37.59	3.33	10.95	16.27	0.21	2500	29.50	16.37	4.20

## 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: I = 79mA, Vd = 3.9V @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)
200	-1.33	60.10	0.43	0.61	6.42	0.89	500	28.41	16.90	5.40
250	3.16	53.77	0.73	1.10	5.16	0.81	550	28.74	17.41	5.47
300	6.61	48.94	1.21	1.75	4.62	0.70	600	28.88	17.63	5.40
350	9.21	46.53	1.87	2.57	5.15	0.59	650	28.93	17.62	5.30
400	11.09	43.64	2.76	3.52	5.06	0.46	700	28.98	17.83	5.25
450	12.45	41.93	3.80	4.51	5.24	0.35	750	29.02	17.80	5.30
500	13.37	40.50	4.97	5.56	5.33	0.26	800	29.04	17.87	5.40
550	14.00	39.55	6.25	6.63	5.48	0.18	850	29.08	18.02	5.38
600	14.41	38.77	7.61	7.69	5.56	0.13	900	29.20	17.75	5.29
650	14.70	38.21	9.03	8.71	5.62	0.10	940	29.06	17.82	5.32
700	14.87	37.69	10.47	9.73	5.61	0.08	1000	28.98	17.61	5.37
750	14.98	37.27	11.91	10.68	5.57	0.08	1050	28.79	17.63	5.36
800	15.06	36.87	13.29	11.65	5.50	0.09	1100	28.79	17.51	5.39
900	15.12	36.03	15.56	13.37	5.20	0.11	1150	28.67	17.41	5.41
1000	15.14	35.36	16.53	14.90	4.92	0.12	1200	28.76	17.38	5.40
1100	15.14	34.79	16.29	16.13	4.65	0.13	1250	28.82	17.18	5.40
1200	15.13	34.25	15.46	17.00	4.38	0.13	1300	28.62	17.21	5.45
1300	15.11	33.67	14.66	17.25	4.09	0.14	1350	28.54	17.07	5.45
1400	15.10	33.08	14.10	17.12	3.81	0.14	1400	28.61	17.13	5.44
1500	15.08	32.68	13.79	16.63	3.63	0.14	1450	28.77	16.95	5.57
1600	15.04	32.19	13.72	15.92	3.43	0.15	1500	28.72	16.90	5.54
1700	14.99	31.84	13.87	15.09	3.31	0.15	1550	29.01	16.85	5.53
1800	14.88	31.51	14.24	14.21	3.21	0.15	1600	29.00	16.64	5.44
1900	14.75	31.19	14.78	13.31	3.13	0.15	1650	28.94	16.60	5.42
2000	14.54	31.07	15.32	12.43	3.14	0.16	1700	28.73	16.38	5.42
2100	14.27	31.02	15.66	11.61	3.20	0.16	1750	28.54	16.30	5.47
2200	13.92	30.93	15.60	10.94	3.25	0.16	1800	28.46	16.16	5.51
2300	13.51	31.06	15.08	10.37	3.41	0.17	1850	28.26	16.17	5.52
2400	13.03	31.07	14.17	9.94	3.55	0.17	1900	28.24	16.07	5.52
2500	12.50	31.36	13.00	9.59	3.82	0.18	1950	28.11	16.03	5.61
2600	11.90	31.61	11.78	9.31	4.11	0.18	2000	28.18	15.99	5.50
2800	10.59	32.26	9.82	9.01	4.89	0.19	2050	28.15	15.85	5.48
3000	9.19	32.90	8.31	8.87	5.84	0.20	2100	28.10	15.75	5.56
3200	7.75	33.62	7.19	8.88	7.09	0.20	2150	28.08	15.82	5.64
3400	6.33	34.40	6.30	8.90	8.62	0.21	2200	28.03	15.68	5.57
3600	4.91	34.95	5.58	8.98	10.22	0.22	2250	28.08	15.81	5.59
3800	3.54	35.54	5.01	9.09	12.13	0.22	2300	28.10	15.80	5.73
4000	2.20	36.17	4.52	9.21	14.41	0.22	2350	28.19	15.70	5.76
4200	0.89	36.56	4.08	9.30	16.53	0.23	2400	28.22	15.65	5.73
4600	-1.65	37.47	3.39	9.57	22.00	0.23	2500	28.23	15.64	5.64

REV. X1

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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: I = 76mA, Vd = 2.8V @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)
200	-1.78	60.60	0.44	0.62	7.57	0.88	500	24.72	13.46	5.50
250	2.64	54.64	0.74	1.10	6.22	0.81	550	24.97	14.02	5.56
300	6.00	49.95	1.21	1.75	5.69	0.71	600	25.18	14.26	5.50
350	8.52	46.64	1.88	2.53	5.66	0.59	650	25.32	14.32	5.39
400	10.33	43.96	2.76	3.44	5.71	0.47	700	25.40	14.65	5.31
450	11.62	42.12	3.79	4.38	5.83	0.36	750	25.48	14.59	5.37
500	12.49	40.76	4.96	5.33	5.97	0.27	800	25.58	14.83	5.46
550	13.08	39.78	6.23	6.28	6.12	0.20	850	25.65	15.02	5.46
600	13.45	38.93	7.57	7.20	6.16	0.15	900	25.80	14.84	5.36
650	13.72	38.35	8.97	8.06	6.21	0.11	940	25.69	14.97	5.40
700	13.87	37.85	10.38	8.88	6.23	0.10	1000	25.69	14.76	5.45
750	13.96	37.18	11.79	9.63	6.03	0.09	1050	25.56	14.95	5.45
800	14.02	36.78	13.10	10.34	5.96	0.09	1100	25.65	14.82	5.44
900	14.07	35.71	15.29	11.54	5.51	0.11	1150	25.64	14.89	5.46
1000	14.08	34.95	16.31	12.51	5.17	0.12	1200	25.84	14.94	5.47
1100	14.07	34.29	16.20	13.24	4.85	0.13	1250	25.90	14.82	5.45
1200	14.06	33.72	15.50	13.74	4.56	0.14	1300	25.82	14.90	5.51
1300	14.05	33.06	14.77	13.89	4.23	0.14	1350	25.80	14.78	5.51
1400	14.05	32.40	14.24	13.89	3.91	0.15	1400	25.94	15.08	5.51
1500	14.04	31.88	13.94	13.64	3.67	0.15	1450	26.20	14.81	5.64
1600	14.02	31.39	13.86	13.26	3.46	0.16	1500	26.21	14.93	5.60
1700	13.99	30.88	13.94	12.74	3.26	0.16	1550	26.57	14.82	5.58
1800	13.91	30.55	14.25	12.09	3.15	0.16	1600	26.56	14.70	5.49
1900	13.80	30.23	14.64	11.36	3.05	0.17	1650	26.53	14.72	5.45
2000	13.61	29.96	14.98	10.60	2.99	0.17	1700	26.27	14.56	5.49
2100	13.35	29.80	15.05	9.86	2.98	0.18	1750	26.15	14.63	5.54
2200	13.01	29.73	14.68	9.21	3.02	0.19	1800	26.11	14.41	5.55
2300	12.59	29.84	13.98	8.67	3.13	0.19	1850	25.97	14.53	5.55
2400	12.09	29.91	13.01	8.23	3.26	0.20	1900	25.96	14.37	5.57
2500	11.53	30.10	11.89	7.86	3.46	0.21	1950	25.84	14.37	5.63
2600	10.89	30.41	10.80	7.58	3.73	0.21	2000	25.92	14.35	5.54
2800	9.50	31.04	9.03	7.28	4.42	0.23	2050	25.90	14.21	5.53
3000	8.00	31.71	7.70	7.12	5.32	0.24	2100	25.88	14.23	5.60
3200	6.47	32.62	6.70	7.11	6.63	0.25	2150	25.83	14.16	5.70
3400	4.97	33.33	5.92	7.14	8.07	0.26	2200	25.77	14.15	5.63
3600	3.47	34.07	5.29	7.21	9.89	0.26	2250	25.83	14.22	5.63
3800	2.04	34.54	4.79	7.33	11.71	0.27	2300	25.82	14.20	5.75
4000	0.65	35.19	4.34	7.44	14.05	0.27	2350	25.87	14.11	5.83
4200	-0.71	35.78	3.95	7.53	16.65	0.28	2400	25.80	14.08	5.76
4600	-3.32	36.81	3.31	7.79	22.81	0.29	2500	25.75	13.99	5.71



## Typical Performance Data

### Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

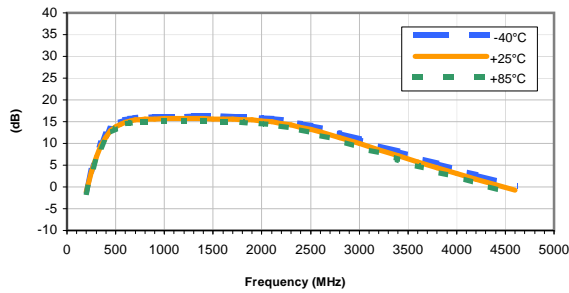
TEST CONDITIONS: I = 82mA, Vd = 5V @Temperature = +85degC

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)
200	-1.13	60.27	0.43	0.62	6.49	0.89	500	30.40	18.67	5.38
250	3.42	54.16	0.73	1.09	5.20	0.81	550	30.82	19.23	5.45
300	6.93	49.03	1.21	1.75	4.48	0.70	600	30.94	19.35	5.38
350	9.59	45.73	1.88	2.60	4.50	0.58	650	31.02	19.42	5.28
400	11.51	43.25	2.77	3.58	4.65	0.46	700	31.03	19.49	5.22
450	12.90	41.34	3.80	4.63	4.69	0.34	750	31.09	19.48	5.28
500	13.86	40.35	4.98	5.74	5.03	0.25	800	31.09	19.43	5.37
550	14.51	39.19	6.25	6.88	5.02	0.17	850	31.11	19.54	5.36
600	14.95	38.62	7.62	8.05	5.21	0.12	900	31.14	19.15	5.28
650	15.26	38.07	9.03	9.20	5.26	0.08	940	30.94	19.12	5.30
700	15.45	37.66	10.49	10.39	5.32	0.07	1000	30.83	18.91	5.37
750	15.57	37.16	11.95	11.52	5.23	0.08	1050	30.67	18.84	5.36
800	15.66	36.84	13.35	12.71	5.20	0.09	1100	30.58	18.81	5.37
900	15.74	36.16	15.65	15.00	5.00	0.11	1150	30.46	18.56	5.40
1000	15.77	35.69	16.60	17.28	4.82	0.12	1200	30.49	18.55	5.40
1100	15.77	35.11	16.27	19.40	4.54	0.12	1250	30.45	18.33	5.38
1200	15.76	34.69	15.38	21.09	4.33	0.13	1300	30.24	18.30	5.44
1300	15.74	34.14	14.56	21.58	4.06	0.13	1350	30.11	18.18	5.43
1400	15.72	33.65	13.97	21.11	3.82	0.13	1400	30.13	18.17	5.44
1500	15.69	33.25	13.66	20.02	3.64	0.13	1450	30.20	18.06	5.57
1600	15.63	32.90	13.62	18.77	3.51	0.14	1500	30.11	17.91	5.52
1700	15.57	32.53	13.79	17.51	3.38	0.14	1550	30.35	17.89	5.52
1800	15.44	32.25	14.23	16.34	3.32	0.14	1600	30.33	17.65	5.41
1900	15.29	32.05	14.85	15.25	3.30	0.14	1650	30.31	17.60	5.41
2000	15.07	32.00	15.53	14.25	3.35	0.14	1700	30.05	17.44	5.41
2100	14.78	31.91	16.06	13.36	3.41	0.14	1750	29.85	17.29	5.45
2200	14.42	31.94	16.17	12.67	3.54	0.14	1800	29.74	17.18	5.50
2300	14.01	32.11	15.79	12.11	3.75	0.15	1850	29.57	17.12	5.50
2400	13.52	32.17	14.91	11.70	3.95	0.15	1900	29.52	17.01	5.52
2500	12.99	32.46	13.71	11.36	4.27	0.15	1950	29.42	16.98	5.57
2600	12.41	32.82	12.45	11.10	4.66	0.15	2000	29.41	16.91	5.50
2800	11.15	33.31	10.36	10.85	5.45	0.16	2050	29.37	16.75	5.48
3000	9.81	34.02	8.76	10.75	6.56	0.16	2100	29.37	16.65	5.54
3200	8.44	34.79	7.54	10.78	7.97	0.17	2150	29.36	16.73	5.64
3400	7.08	35.40	6.58	10.83	9.47	0.17	2200	29.30	16.57	5.56
3600	5.73	35.96	5.81	10.92	11.16	0.17	2250	29.36	16.75	5.58
3800	4.42	36.48	5.18	11.03	13.02	0.18	2300	29.34	16.62	5.72
4000	3.11	36.91	4.65	11.13	15.01	0.18	2350	29.43	16.68	5.75
4200	1.85	37.52	4.18	11.22	17.52	0.18	2400	29.40	16.58	5.73
4600	-0.62	38.18	3.46	11.50	22.41	0.19	2500	29.51	16.52	5.65

## Typical Performance Curves

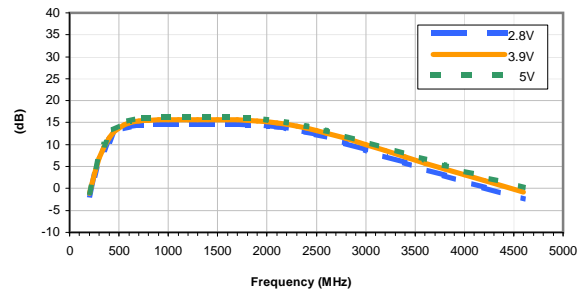
**GAIN vs. TEMPERATURE**

INPUT POWER = -20, VOLTAGE = 3.9V



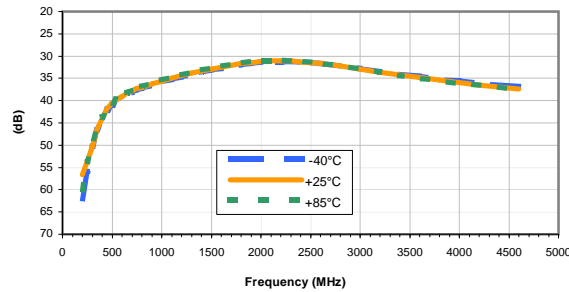
**GAIN vs. VOLTAGE**

INPUT POWER = -20, Temperature = +25°C



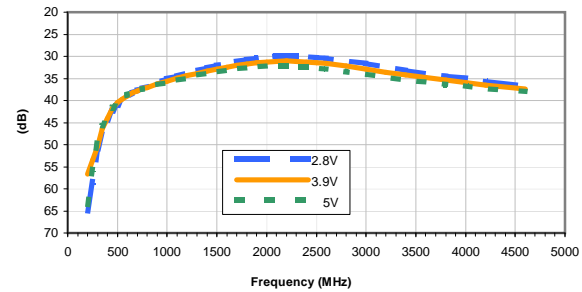
**ISOLATION vs. TEMPERATURE**

INPUT POWER = -20, VOLTAGE = 3.9V



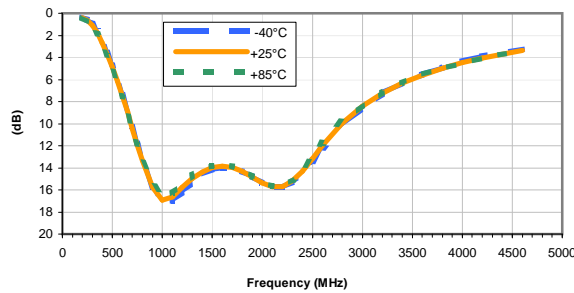
**ISOLATION vs. VOLTAGE**

INPUT POWER = -20, Temperature = +25°C



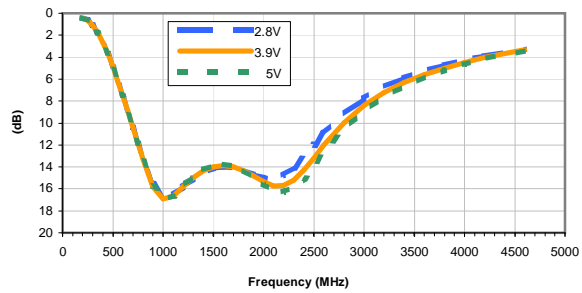
**INPUT RETURN LOSS vs. TEMPERATURE**

INPUT POWER = -20, VOLTAGE = 3.9V



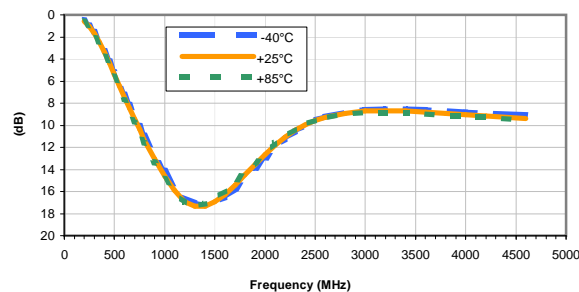
**INPUT RETURN LOSS vs. VOLTAGE**

INPUT POWER = -20, Temperature = +25°C



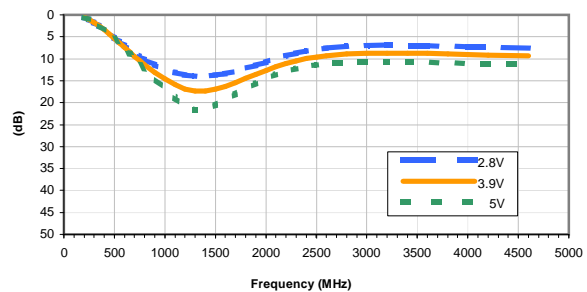
**OUTPUT RETURN LOSS vs. TEMPERATURE**

INPUT POWER = -20, VOLTAGE = 3.9V



**OUTPUT RETURN LOSS vs. VOLTAGE**

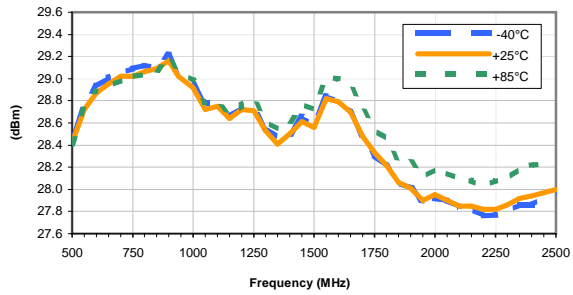
INPUT POWER = -20, Temperature = +25°C



## Typical Performance Curves

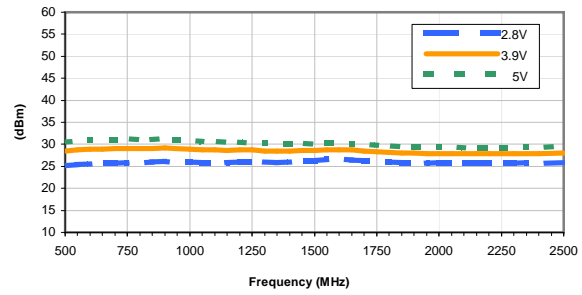
OUTPUT IP3 vs. TEMPERATURE

INPUT POWER = -20, VOLTAGE = 3.9V



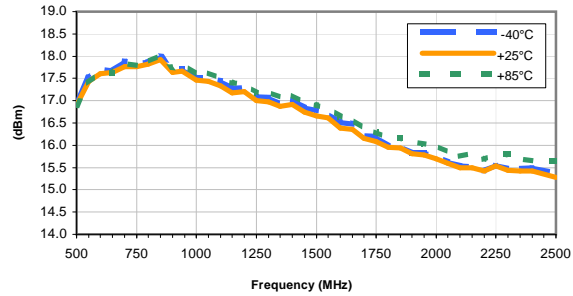
OUTPUT IP-3 vs. VOLTAGE

INPUT POWER = -20, Temperature = +25°C



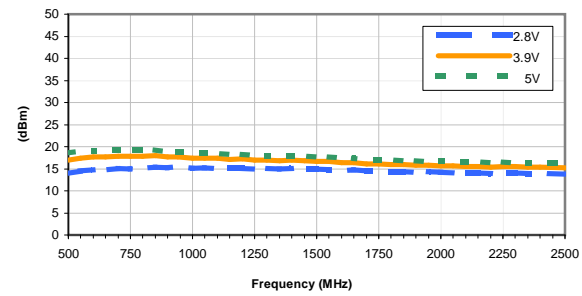
OUTPUT POWER at 1dB Compression vs. TEMPERATURE

VOLTAGE = 3.9V



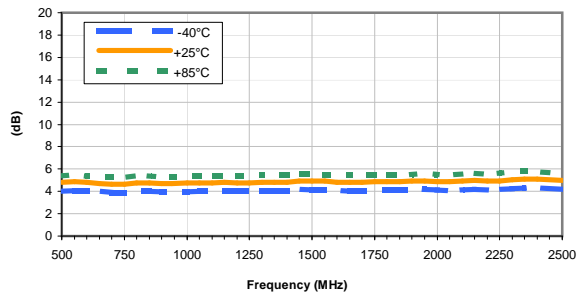
OUTPUT POWER at 1dB Compression vs. VOLTAGE

Temperature = +25°C



Noise Figure vs. TEMPERATURE

VOLTAGE = 3.9V



Noise Figure vs. VOLTAGE

Temperature = +25°C

