

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 = 68mA, 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	-2.78	47.63	-0.09	1.07	-0.22	0.89	400	26.60	14.17	5.04
300	9.27	39.66	0.38	4.65	0.73	0.55	450	27.49	15.05	4.91
400	13.72	37.71	2.25	10.49	2.71	0.17	500	28.17	15.55	4.89
500	15.44	37.63	4.13	16.00	3.84	0.10	550	28.44	15.98	4.86
600	16.31	38.11	5.79	17.50	4.53	0.14	600	28.73	16.16	4.76
700	16.85	38.47	7.19	16.15	4.86	0.15	650	28.92	16.49	4.71
800	17.25	39.09	8.34	15.02	5.22	0.15	700	29.08	16.56	4.69
900	17.57	39.50	9.24	14.41	5.40	0.14	750	28.95	16.73	4.68
1000	17.81	39.99	9.97	13.99	5.64	0.14	800	29.35	16.51	4.72
1100	18.01	40.53	10.55	13.84	5.93	0.13	850	29.25	16.73	4.62
1200	18.17	40.98	10.99	13.81	6.18	0.12	900	28.80	16.44	4.56
1300	18.26	41.52	11.40	13.82	6.56	0.12	940	28.82	16.63	4.57
1400	18.32	41.63	11.83	14.09	6.66	0.12	1000	28.64	16.57	4.57
1500	18.30	41.70	12.29	14.28	6.78	0.11	1050	28.68	16.58	4.55
1600	18.25	41.35	12.87	14.69	6.62	0.11	1100	28.65	16.56	4.59
1700	18.14	40.61	13.58	15.11	6.24	0.11	1150	28.59	16.46	4.61
1800	17.94	39.89	14.44	15.53	5.93	0.11	1200	28.65	16.48	4.60
1900	17.74	38.74	15.41	16.36	5.39	0.11	1300	28.42	16.37	4.58
2000	17.43	37.75	16.62	16.92	5.03	0.11	1400	28.17	16.32	4.53
2100	17.11	36.74	17.82	17.79	4.69	0.11	1500	27.87	16.22	4.56
2200	16.75	35.91	18.98	18.44	4.47	0.11	1600	27.69	16.09	4.57
2300	16.32	35.08	19.69	18.87	4.28	0.11	1700	27.51	15.92	4.55
2400	15.90	34.46	19.27	19.35	4.18	0.11	1800	27.37	15.83	4.50
2500	15.41	33.55	18.41	19.45	3.98	0.11	1900	27.24	15.69	4.53
2600	14.93	33.07	17.01	19.31	3.96	0.11	2000	27.26	15.52	4.45
2700	14.44	32.57	15.64	18.97	3.92	0.11	2100	27.16	15.50	4.44
2800	13.93	32.20	14.31	18.39	3.93	0.11	2200	27.26	15.40	4.46
2900	13.43	31.77	13.21	18.09	3.92	0.11	2300	27.33	15.57	4.49
3000	12.92	31.39	12.22	17.59	3.91	0.11	2400	27.36	15.65	4.54
3100	12.42	31.06	11.38	17.31	3.93	0.10	2500	27.58	15.67	4.57
3200	11.95	30.75	10.65	16.97	3.94	0.10	2600	27.64	15.78	4.61
3400	10.97	30.23	9.42	16.65	4.01	0.09	2700	27.94	16.05	4.67
3600	10.08	29.64	8.53	16.69	4.02	0.08	2800	28.21	16.16	4.74
3800	9.20	29.13	7.81	16.97	4.06	0.06	2900	28.90	16.22	4.65
4000	8.35	28.76	7.29	17.44	4.18	0.04	3000	29.16	16.48	4.84
4500	6.38	29.41	6.07	20.86	5.30	0.05	3100	29.20	16.36	4.86
5000	4.26	29.33	5.07	16.49	6.10	0.12	3200	29.53	16.48	4.84
5500	2.02	27.75	3.84	12.31	5.52	0.20	3300	29.72	16.78	5.03
6000	-0.92	27.21	3.22	9.39	6.15	0.27	3400	29.69	17.00	5.22
6500	-4.20	27.25	2.82	7.41	7.58	0.33	3500	29.93	17.11	5.18

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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 = 66mA, 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	-2.73	48.96	-0.09	1.13	-0.42	0.89	400	23.01	10.51	5.06
300	8.98	40.47	0.46	4.66	0.94	0.54	450	23.48	11.23	4.90
400	13.11	39.00	2.35	9.66	3.45	0.20	500	24.09	11.61	4.90
500	14.69	38.92	4.22	13.34	4.82	0.13	550	24.18	12.08	4.90
600	15.48	39.65	5.81	14.23	5.82	0.14	600	24.49	12.21	4.76
700	15.99	39.74	7.12	13.61	6.04	0.15	650	24.57	12.64	4.77
800	16.38	40.10	8.17	12.96	6.29	0.15	700	24.80	12.69	4.69
900	16.69	40.34	8.97	12.50	6.39	0.15	750	24.73	12.97	4.70
1000	16.93	40.42	9.64	12.08	6.36	0.15	800	25.06	12.73	4.72
1100	17.14	40.25	10.19	11.83	6.16	0.15	850	24.97	13.07	4.65
1200	17.31	40.21	10.64	11.57	6.05	0.15	900	24.88	12.73	4.57
1300	17.41	40.10	11.06	11.37	5.94	0.15	940	25.00	13.02	4.59
1400	17.49	39.56	11.51	11.30	5.58	0.15	1000	24.81	13.02	4.58
1500	17.50	39.14	11.99	11.18	5.34	0.15	1050	25.00	13.02	4.55
1600	17.47	38.53	12.57	11.20	5.04	0.15	1100	24.95	13.07	4.61
1700	17.39	37.60	13.26	11.24	4.61	0.15	1150	25.11	12.95	4.62
1800	17.24	36.85	14.09	11.31	4.35	0.15	1200	25.08	13.03	4.56
1900	17.07	36.02	15.00	11.60	4.09	0.15	1300	25.01	13.11	4.59
2000	16.81	35.22	16.15	11.81	3.88	0.15	1400	25.01	13.08	4.54
2100	16.52	34.37	17.29	12.21	3.68	0.15	1500	24.92	13.09	4.57
2200	16.19	33.71	18.42	12.59	3.57	0.14	1600	24.89	13.06	4.55
2300	15.79	33.01	19.17	12.98	3.47	0.14	1700	24.82	13.11	4.54
2400	15.40	32.48	18.99	13.46	3.43	0.13	1800	24.76	13.27	4.53
2500	14.93	31.77	18.33	14.00	3.34	0.13	1900	24.61	13.26	4.52
2600	14.47	31.39	17.07	14.42	3.36	0.12	2000	24.64	13.29	4.43
2700	13.99	30.85	15.77	14.90	3.33	0.12	2100	24.59	13.34	4.45
2800	13.47	30.57	14.47	15.22	3.39	0.11	2200	24.79	13.31	4.51
2900	12.98	30.19	13.38	15.55	3.40	0.10	2300	24.97	13.36	4.49
3000	12.46	29.89	12.36	15.76	3.44	0.10	2400	24.99	13.44	4.54
3100	11.94	29.63	11.50	15.94	3.49	0.09	2500	25.24	13.35	4.55
3200	11.44	29.33	10.74	16.08	3.52	0.08	2600	25.19	13.44	4.56
3400	10.41	28.91	9.46	16.07	3.64	0.07	2700	25.29	13.75	4.65
3600	9.42	28.44	8.48	15.91	3.74	0.06	2800	25.73	13.86	4.69
3800	8.43	28.00	7.67	15.42	3.83	0.06	2900	25.88	13.93	4.63
4000	7.45	27.71	7.05	14.88	4.01	0.08	3000	26.07	14.17	4.83
4500	5.04	28.30	5.70	12.76	5.10	0.15	3100	26.12	14.09	4.87
5000	2.47	29.03	4.69	9.61	6.41	0.23	3200	26.41	14.04	4.86
5500	0.01	27.80	3.65	7.77	6.07	0.31	3300	26.51	14.18	5.06
6000	-2.87	27.48	3.19	6.55	7.00	0.36	3400	26.17	14.29	5.29
6500	-5.87	27.69	2.87	5.64	8.77	0.40	3500	25.92	14.21	5.21

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 = 69mA, 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	-3.09	47.57	-0.07	1.03	0.05	0.90	400	27.55	15.87	5.09
300	9.13	39.19	0.37	4.61	0.73	0.56	450	28.68	16.95	4.93
400	13.80	36.90	2.20	11.02	2.43	0.15	500	29.31	17.51	4.97
500	15.62	36.58	4.08	18.33	3.36	0.08	550	29.72	17.84	4.94
600	16.52	37.19	5.77	20.38	4.02	0.13	600	29.96	18.07	4.80
700	17.07	37.48	7.23	17.88	4.28	0.15	650	30.23	18.24	4.81
800	17.48	38.07	8.45	16.32	4.58	0.15	700	30.30	18.35	4.77
900	17.78	38.72	9.41	15.65	4.88	0.14	750	30.17	18.39	4.73
1000	18.02	39.35	10.17	15.33	5.18	0.12	800	30.58	18.16	4.78
1100	18.20	40.22	10.75	15.37	5.67	0.11	850	30.46	18.27	4.66
1200	18.33	40.81	11.17	15.66	6.03	0.10	900	29.86	17.94	4.65
1300	18.40	41.89	11.54	16.04	6.83	0.09	940	29.85	18.08	4.63
1400	18.43	42.71	11.91	16.87	7.55	0.08	1000	29.68	17.91	4.64
1500	18.38	43.72	12.33	17.69	8.60	0.08	1050	29.59	17.84	4.62
1600	18.30	44.16	12.84	18.90	9.23	0.07	1100	29.59	17.69	4.66
1700	18.15	43.83	13.51	20.41	9.15	0.07	1150	29.42	17.58	4.70
1800	17.92	43.03	14.34	21.99	8.66	0.07	1200	29.52	17.38	4.65
1900	17.68	41.65	15.29	24.86	7.68	0.07	1300	29.18	17.17	4.65
2000	17.35	40.40	16.50	26.98	6.97	0.07	1400	28.84	17.04	4.61
2100	17.00	39.03	17.72	29.17	6.24	0.08	1500	28.44	16.89	4.65
2200	16.62	37.93	18.92	27.20	5.77	0.08	1600	28.22	16.66	4.63
2300	16.17	36.96	19.71	24.40	5.44	0.09	1700	28.00	16.41	4.64
2400	15.74	36.08	19.38	22.25	5.15	0.09	1800	27.88	16.24	4.57
2500	15.24	35.12	18.54	20.09	4.86	0.10	1900	27.76	16.00	4.58
2600	14.75	34.46	17.10	18.77	4.73	0.10	2000	27.78	15.81	4.49
2700	14.26	33.84	15.71	17.47	4.60	0.11	2100	27.66	15.73	4.54
2800	13.75	33.28	14.35	16.44	4.51	0.11	2200	27.71	15.64	4.59
2900	13.27	32.83	13.23	15.78	4.46	0.12	2300	27.78	15.77	4.58
3000	12.77	32.40	12.22	15.15	4.42	0.12	2400	27.74	15.92	4.63
3100	12.29	32.01	11.36	14.73	4.40	0.12	2500	27.98	15.91	4.60
3200	11.83	31.69	10.63	14.31	4.38	0.12	2600	28.10	16.03	4.68
3400	10.90	31.08	9.41	13.90	4.38	0.12	2700	28.52	16.38	4.74
3600	10.07	30.41	8.52	13.84	4.33	0.12	2800	28.89	16.44	4.77
3800	9.27	29.78	7.84	14.11	4.28	0.10	2900	29.50	16.57	4.72
4000	8.51	29.43	7.36	14.50	4.38	0.09	3000	29.67	16.86	4.88
4500	6.83	30.14	6.25	18.52	5.49	0.04	3100	29.70	16.73	4.96
5000	5.02	29.39	5.26	38.52	5.84	0.06	3200	29.96	16.95	4.96
5500	2.94	27.57	3.89	17.34	5.07	0.15	3300	30.37	17.42	5.10
6000	-0.13	26.88	3.16	11.33	5.54	0.23	3400	30.30	17.81	5.26
6500	-3.71	26.77	2.72	8.20	6.80	0.30	3500	31.16	18.07	5.24

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 = 62mA, Vd = 3.9V @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)
200	-2.14	48.48	-0.19	1.01	-0.95	0.91	400	26.97	14.26	4.11
300	10.23	39.71	0.19	4.65	0.27	0.56	450	27.94	15.06	3.99
400	14.67	37.58	2.10	10.38	2.24	0.17	500	28.63	15.58	4.01
500	16.38	37.72	4.05	15.84	3.44	0.09	550	28.93	16.04	4.00
600	17.26	38.33	5.72	17.59	4.15	0.14	600	29.16	16.26	3.92
700	17.82	38.82	7.15	16.15	4.53	0.16	650	29.32	16.56	3.84
800	18.26	39.55	8.31	14.84	4.90	0.16	700	29.47	16.61	3.82
900	18.61	39.97	9.26	14.08	5.06	0.15	750	29.34	16.76	3.80
1000	18.91	40.58	10.07	13.52	5.33	0.15	800	29.69	16.53	3.82
1100	19.14	41.13	10.69	13.29	5.58	0.14	850	29.52	16.74	3.74
1200	19.35	41.38	11.17	13.22	5.65	0.14	900	29.07	16.46	3.70
1300	19.48	41.70	11.61	13.15	5.81	0.13	940	29.10	16.63	3.70
1400	19.58	41.67	12.05	13.24	5.77	0.13	1000	28.89	16.54	3.71
1500	19.60	41.58	12.50	13.33	5.74	0.13	1050	28.88	16.55	3.66
1600	19.59	41.15	13.08	13.56	5.52	0.13	1100	28.85	16.52	3.74
1700	19.50	40.12	13.88	13.82	5.02	0.13	1150	28.74	16.45	3.78
1800	19.32	39.24	14.81	14.07	4.68	0.13	1200	28.80	16.42	3.73
1900	19.13	37.94	15.80	14.63	4.17	0.13	1300	28.52	16.28	3.75
2000	18.81	37.08	17.09	14.87	3.95	0.13	1400	28.25	16.19	3.70
2100	18.47	36.17	18.03	15.39	3.73	0.13	1500	27.93	16.08	3.72
2200	18.09	35.32	18.57	15.78	3.55	0.13	1600	27.73	15.94	3.74
2300	17.63	34.55	18.53	16.09	3.43	0.13	1700	27.52	15.74	3.68
2400	17.19	33.93	17.65	16.59	3.36	0.13	1800	27.44	15.64	3.67
2500	16.66	33.19	16.68	16.83	3.27	0.13	1900	27.36	15.43	3.67
2600	16.15	32.73	15.36	16.81	3.26	0.13	2000	27.37	15.24	3.60
2700	15.62	32.25	14.19	16.64	3.24	0.13	2100	27.28	15.23	3.63
2800	15.07	31.92	13.09	16.26	3.28	0.12	2200	27.39	15.15	3.65
2900	14.55	31.53	12.23	16.07	3.29	0.12	2300	27.51	15.29	3.61
3000	14.03	31.28	11.44	15.76	3.34	0.12	2400	27.49	15.41	3.68
3100	13.50	30.96	10.73	15.53	3.36	0.11	2500	27.72	15.45	3.69
3200	13.00	30.68	10.11	15.36	3.39	0.11	2600	27.79	15.65	3.71
3400	12.00	30.26	9.05	15.30	3.50	0.10	2700	28.41	15.93	3.77
3600	11.10	29.75	8.29	15.45	3.56	0.09	2800	28.57	16.07	3.84
3800	10.21	29.19	7.70	15.56	3.59	0.07	2900	29.03	16.17	3.80
4000	9.34	28.78	7.32	15.85	3.71	0.05	3000	29.31	16.45	3.96
4500	7.46	29.39	6.03	19.01	4.62	0.04	3100	29.41	16.44	3.95
5000	5.36	29.39	5.16	16.84	5.46	0.11	3200	29.78	16.56	3.98
5500	3.31	27.61	3.69	12.68	4.61	0.21	3300	30.13	16.86	4.14
6000	0.53	27.09	3.04	9.62	5.03	0.28	3400	29.96	17.15	4.32
6500	-2.65	26.89	2.62	7.46	5.86	0.34	3500	30.39	17.25	4.26

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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 = 58mA, Vd = 2.8V @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)
200	-2.05	48.23	0.20	1.08	-1.12	0.91	400	23.47	10.80	4.11
300	9.97	40.17	0.26	4.66	0.35	0.55	450	23.99	11.29	3.98
400	14.08	38.90	2.21	9.60	2.87	0.20	500	24.63	11.75	4.01
500	15.63	39.22	4.14	13.28	4.41	0.13	550	24.72	12.28	3.99
600	16.44	39.90	5.76	14.27	5.34	0.14	600	25.03	12.48	3.91
700	16.97	40.29	7.10	13.58	5.74	0.15	650	25.10	12.91	3.85
800	17.39	40.67	8.15	12.78	5.97	0.16	700	25.35	13.07	3.84
900	17.74	40.84	9.02	12.20	5.99	0.16	750	25.27	13.49	3.77
1000	18.04	40.89	9.76	11.68	5.91	0.16	800	25.58	13.32	3.84
1100	18.28	40.80	10.34	11.38	5.74	0.16	850	25.46	13.73	3.75
1200	18.50	40.50	10.81	11.10	5.45	0.16	900	25.37	13.44	3.68
1300	18.64	40.08	11.26	10.82	5.13	0.16	940	25.51	13.76	3.70
1400	18.76	39.50	11.71	10.62	4.76	0.17	1000	25.30	13.72	3.72
1500	18.80	38.91	12.18	10.46	4.44	0.17	1050	25.48	13.76	3.71
1600	18.82	38.21	12.76	10.37	4.12	0.17	1100	25.42	13.78	3.75
1700	18.76	37.22	13.53	10.33	3.73	0.17	1150	25.54	13.72	3.77
1800	18.63	36.41	14.43	10.32	3.49	0.17	1200	25.49	13.78	3.72
1900	18.47	35.37	15.38	10.53	3.19	0.17	1300	25.40	13.81	3.72
2000	18.21	34.68	16.61	10.63	3.07	0.17	1400	25.39	13.81	3.71
2100	17.91	33.87	17.55	10.92	2.92	0.17	1500	25.29	13.80	3.72
2200	17.56	33.23	18.16	11.26	2.84	0.16	1600	25.22	13.78	3.72
2300	17.13	32.49	18.28	11.60	2.75	0.16	1700	25.15	13.75	3.67
2400	16.72	32.08	17.60	12.10	2.76	0.15	1800	25.01	13.82	3.66
2500	16.22	31.39	16.78	12.70	2.71	0.15	1900	24.90	13.81	3.67
2600	15.72	31.01	15.53	13.14	2.74	0.14	2000	24.90	13.73	3.59
2700	15.20	30.58	14.40	13.61	2.75	0.13	2100	24.91	13.72	3.56
2800	14.66	30.28	13.30	13.92	2.80	0.12	2200	25.13	13.66	3.63
2900	14.13	29.97	12.43	14.25	2.84	0.12	2300	25.32	13.75	3.61
3000	13.60	29.70	11.63	14.44	2.89	0.11	2400	25.35	13.80	3.68
3100	13.06	29.44	10.91	14.62	2.95	0.10	2500	25.61	13.72	3.68
3200	12.53	29.24	10.25	14.79	3.01	0.09	2600	25.55	13.83	3.71
3400	11.47	28.80	9.14	15.06	3.13	0.07	2700	25.99	14.06	3.80
3600	10.48	28.38	8.28	15.20	3.24	0.06	2800	26.01	14.23	3.82
3800	9.48	27.95	7.59	14.93	3.34	0.06	2900	26.32	14.27	3.76
4000	8.48	27.62	7.09	14.46	3.51	0.08	3000	26.48	14.52	3.96
4500	6.16	28.10	5.64	12.70	4.35	0.15	3100	26.65	14.46	3.95
5000	3.58	29.04	4.71	9.64	5.66	0.23	3200	26.88	14.48	3.98
5500	1.22	27.63	3.45	7.70	5.02	0.32	3300	27.08	14.63	4.13
6000	-1.53	27.31	2.98	6.43	5.66	0.37	3400	26.82	14.74	4.32
6500	-4.45	27.29	2.66	5.51	6.75	0.42	3500	26.65	14.70	4.22

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 = 65mA, Vd = 5V @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)
200	-2.47	48.09	0.17	0.98	-0.63	0.91	400	27.78	15.97	4.18
300	10.06	39.35	0.18	4.60	0.30	0.57	450	28.92	16.95	4.03
400	14.73	36.86	2.06	10.89	2.04	0.15	500	29.57	17.50	4.04
500	16.54	36.69	3.99	17.96	3.01	0.08	550	29.93	17.84	4.06
600	17.45	37.36	5.70	20.41	3.67	0.14	600	30.10	18.08	3.94
700	18.03	37.78	7.19	17.86	3.97	0.16	650	30.36	18.23	3.92
800	18.46	38.32	8.42	16.12	4.22	0.16	700	30.39	18.32	3.88
900	18.80	39.14	9.44	15.31	4.56	0.15	750	30.26	18.35	3.84
1000	19.08	39.69	10.29	14.83	4.79	0.14	800	30.62	18.13	3.89
1100	19.31	40.49	10.92	14.79	5.17	0.13	850	30.41	18.24	3.80
1200	19.49	41.32	11.36	15.07	5.61	0.12	900	29.85	17.91	3.77
1300	19.59	42.27	11.77	15.39	6.23	0.11	940	29.84	18.03	3.76
1400	19.66	42.95	12.15	16.01	6.75	0.10	1000	29.63	17.84	3.81
1500	19.65	43.79	12.55	16.67	7.50	0.09	1050	29.53	17.79	3.75
1600	19.60	43.86	13.08	17.59	7.69	0.09	1100	29.57	17.64	3.80
1700	19.46	43.06	13.84	18.65	7.21	0.09	1150	29.31	17.54	3.82
1800	19.26	42.12	14.74	19.59	6.70	0.09	1200	29.43	17.35	3.80
1900	19.02	40.59	15.72	21.06	5.84	0.09	1300	29.10	17.13	3.75
2000	18.68	39.40	16.99	21.38	5.33	0.09	1400	28.76	17.00	3.74
2100	18.32	38.27	17.98	21.93	4.91	0.10	1500	28.33	16.82	3.78
2200	17.92	37.29	18.60	21.37	4.60	0.10	1600	28.09	16.57	3.79
2300	17.43	36.21	18.64	20.43	4.29	0.10	1700	27.88	16.35	3.75
2400	16.98	35.55	17.81	19.73	4.18	0.11	1800	27.80	16.14	3.73
2500	16.45	34.61	16.83	18.27	3.95	0.12	1900	27.72	15.93	3.74
2600	15.93	34.07	15.48	17.23	3.90	0.12	2000	27.74	15.73	3.64
2700	15.40	33.48	14.28	16.19	3.83	0.12	2100	27.63	15.66	3.66
2800	14.86	33.05	13.14	15.32	3.81	0.13	2200	27.71	15.59	3.72
2900	14.35	32.65	12.25	14.72	3.80	0.13	2300	27.78	15.72	3.70
3000	13.85	32.31	11.43	14.21	3.80	0.13	2400	27.75	15.90	3.75
3100	13.32	31.95	10.71	13.82	3.80	0.13	2500	27.99	15.92	3.74
3200	12.86	31.68	10.07	13.51	3.82	0.13	2600	28.07	16.13	3.79
3400	11.90	31.11	9.02	13.22	3.85	0.13	2700	28.76	16.46	3.84
3600	11.06	30.52	8.26	13.14	3.85	0.13	2800	29.01	16.55	3.91
3800	10.24	29.93	7.69	13.20	3.84	0.12	2900	29.50	16.69	3.84
4000	9.47	29.47	7.36	13.45	3.90	0.10	3000	29.82	16.93	4.03
4500	7.88	30.22	6.19	16.73	4.85	0.04	3100	29.87	16.95	4.06
5000	6.09	29.52	5.37	31.00	5.29	0.05	3200	30.19	17.14	4.06
5500	4.23	27.46	3.75	19.01	4.25	0.14	3300	30.57	17.54	4.21
6000	1.35	26.75	2.97	11.97	4.50	0.23	3400	30.71	18.00	4.35
6500	-2.13	26.40	2.50	8.34	5.19	0.31	3500	31.23	18.22	4.30

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 = 69mA, 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	-3.50	47.40	0.01	1.12	0.63	0.88	400	26.32	13.95	5.86
300	8.28	39.71	0.57	4.63	1.30	0.54	450	27.22	14.90	5.70
400	12.73	37.49	2.34	10.54	3.08	0.17	500	27.91	15.40	5.66
500	14.49	37.25	4.15	16.17	4.13	0.10	550	28.17	15.80	5.69
600	15.34	37.60	5.76	17.45	4.76	0.13	600	28.47	16.02	5.55
700	15.87	38.14	7.11	16.12	5.21	0.15	650	28.67	16.38	5.53
800	16.23	38.51	8.21	15.05	5.45	0.14	700	28.83	16.46	5.47
900	16.51	39.01	9.07	14.57	5.73	0.14	750	28.71	16.65	5.47
1000	16.72	39.47	9.77	14.32	5.99	0.13	800	29.18	16.42	5.49
1100	16.88	39.98	10.33	14.38	6.32	0.12	850	29.09	16.67	5.39
1200	17.00	40.55	10.75	14.50	6.72	0.11	900	28.66	16.36	5.32
1300	17.05	41.18	11.16	14.78	7.24	0.10	940	28.68	16.57	5.34
1400	17.07	41.48	11.57	15.23	7.56	0.10	1000	28.51	16.51	5.40
1500	17.03	41.66	12.02	15.61	7.84	0.10	1050	28.53	16.51	5.35
1600	16.95	41.74	12.56	16.25	8.06	0.09	1100	28.49	16.53	5.42
1700	16.80	41.26	13.21	16.82	7.85	0.09	1150	28.50	16.42	5.44
1800	16.60	40.77	13.98	17.52	7.67	0.09	1200	28.54	16.41	5.42
1900	16.37	39.61	14.86	18.44	6.98	0.09	1300	28.34	16.33	5.40
2000	16.07	38.78	15.98	19.20	6.63	0.09	1400	28.10	16.26	5.34
2100	15.77	37.52	17.18	20.52	6.00	0.09	1500	27.81	16.18	5.38
2200	15.40	36.76	18.50	21.53	5.77	0.09	1600	27.64	16.03	5.35
2300	14.99	35.79	19.64	22.60	5.43	0.09	1700	27.45	15.88	5.35
2400	14.63	35.09	20.03	23.58	5.24	0.09	1800	27.30	15.77	5.36
2500	14.15	34.16	19.72	23.74	4.97	0.09	1900	27.12	15.63	5.31
2600	13.72	33.53	18.46	23.46	4.85	0.09	2000	27.09	15.44	5.22
2700	13.25	32.98	16.97	22.44	4.77	0.10	2100	26.99	15.43	5.25
2800	12.76	32.52	15.42	21.27	4.73	0.09	2200	27.07	15.30	5.31
2900	12.30	32.02	14.16	20.45	4.66	0.10	2300	27.15	15.33	5.32
3000	11.82	31.63	12.99	19.52	4.64	0.09	2400	27.11	15.45	5.35
3100	11.34	31.27	12.00	18.99	4.63	0.09	2500	27.27	15.48	5.36
3200	10.88	30.90	11.16	18.48	4.60	0.09	2600	27.64	15.56	5.38
3400	9.94	30.35	9.74	17.96	4.64	0.08	2700	27.84	15.86	5.49
3600	9.06	29.70	8.70	17.92	4.60	0.07	2800	27.99	15.92	5.49
3800	8.20	29.17	7.89	18.38	4.62	0.06	2900	28.39	16.02	5.48
4000	7.37	28.81	7.31	19.13	4.74	0.04	3000	28.63	16.29	5.69
4500	5.27	29.20	6.30	22.90	6.00	0.06	3100	28.78	16.17	5.66
5000	3.30	28.86	4.87	16.59	6.33	0.12	3200	29.12	16.27	5.70
5500	0.80	27.85	3.97	12.17	6.51	0.20	3300	29.37	16.60	5.88
6000	-2.28	27.43	3.41	9.39	7.60	0.26	3400	29.22	16.83	6.12
6500	-5.67	27.51	3.04	7.49	9.70	0.32	3500	29.18	16.95	6.05

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 = 68mA, 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	-3.47	47.87	0.01	1.18	0.44	0.87	400	22.61	10.20	5.89
300	7.99	40.47	0.63	4.64	1.54	0.53	450	23.13	10.94	5.70
400	12.12	38.56	2.43	9.71	3.80	0.20	500	23.73	11.27	5.70
500	13.72	38.64	4.22	13.47	5.23	0.13	550	23.86	11.78	5.70
600	14.51	38.99	5.77	14.30	6.01	0.14	600	24.15	11.88	5.59
700	15.02	39.28	7.04	13.72	6.38	0.15	650	24.22	12.27	5.55
800	15.37	39.61	8.03	13.12	6.64	0.15	700	24.49	12.34	5.50
900	15.64	39.80	8.80	12.78	6.75	0.15	750	24.42	12.68	5.47
1000	15.85	39.79	9.45	12.52	6.70	0.14	800	24.71	12.43	5.46
1100	16.03	40.00	9.98	12.43	6.81	0.14	850	24.67	12.76	5.39
1200	16.16	39.94	10.42	12.31	6.72	0.14	900	24.58	12.43	5.38
1300	16.22	39.88	10.84	12.29	6.69	0.13	940	24.73	12.69	5.38
1400	16.27	39.59	11.28	12.32	6.49	0.13	1000	24.51	12.71	5.42
1500	16.25	39.38	11.75	12.31	6.40	0.13	1050	24.73	12.71	5.38
1600	16.19	38.88	12.29	12.43	6.14	0.13	1100	24.69	12.77	5.42
1700	16.08	38.19	12.94	12.49	5.80	0.13	1150	24.85	12.66	5.47
1800	15.92	37.56	13.69	12.66	5.56	0.13	1200	24.83	12.70	5.39
1900	15.72	36.67	14.55	12.90	5.19	0.13	1300	24.83	12.78	5.40
2000	15.46	35.92	15.58	13.13	4.95	0.13	1400	24.86	12.74	5.40
2100	15.19	35.05	16.69	13.61	4.68	0.12	1500	24.76	12.78	5.37
2200	14.85	34.46	17.93	14.00	4.58	0.12	1600	24.73	12.78	5.42
2300	14.47	33.68	19.02	14.48	4.41	0.12	1700	24.69	12.78	5.38
2400	14.13	33.12	19.49	15.09	4.32	0.11	1800	24.55	12.92	5.34
2500	13.68	32.35	19.36	15.72	4.18	0.11	1900	24.37	12.94	5.34
2600	13.26	31.85	18.30	16.29	4.13	0.11	2000	24.37	12.89	5.26
2700	12.80	31.33	16.93	16.81	4.09	0.10	2100	24.35	12.91	5.25
2800	12.31	30.97	15.46	17.15	4.12	0.10	2200	24.50	12.91	5.32
2900	11.85	30.57	14.22	17.50	4.11	0.09	2300	24.68	12.97	5.28
3000	11.36	30.21	13.06	17.64	4.12	0.09	2400	24.68	13.03	5.32
3100	10.86	29.91	12.05	17.69	4.16	0.08	2500	24.86	13.01	5.35
3200	10.39	29.60	11.19	17.73	4.17	0.07	2600	25.08	13.02	5.39
3400	9.38	29.08	9.72	17.41	4.25	0.06	2700	25.10	13.31	5.44
3600	8.42	28.60	8.61	16.96	4.32	0.06	2800	25.08	13.39	5.53
3800	7.44	28.18	7.72	16.26	4.41	0.06	2900	25.41	13.55	5.47
4000	6.49	27.82	7.07	15.59	4.56	0.08	3000	25.54	13.76	5.60
4500	3.97	28.29	5.94	13.20	5.91	0.14	3100	25.63	13.53	5.68
5000	1.58	28.74	4.57	9.91	6.82	0.22	3200	25.87	13.53	5.70
5500	-1.09	27.95	3.82	8.06	7.25	0.29	3300	26.02	13.69	5.89
6000	-4.06	27.72	3.39	6.86	8.68	0.33	3400	25.50	13.81	6.14
6500	-7.16	27.89	3.09	5.94	11.07	0.37	3500	25.52	13.79	6.11

Typical Performance Data

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

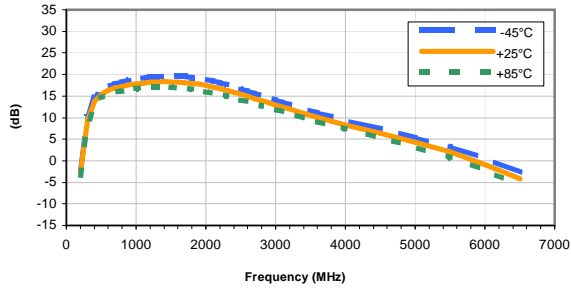
TEST CONDITIONS: I = 70mA, Vd = 5V @Temperature = +85degC

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	-3.79	47.40	0.03	1.08	0.87	0.88	400	27.32	15.76	5.96
300	8.15	39.34	0.56	4.58	1.28	0.55	450	28.44	16.92	5.76
400	12.80	36.73	2.30	11.07	2.80	0.15	500	29.11	17.48	5.76
500	14.66	36.39	4.10	18.63	3.69	0.08	550	29.50	17.86	5.71
600	15.55	36.66	5.75	20.25	4.21	0.13	600	29.79	18.09	5.65
700	16.09	37.09	7.16	17.76	4.56	0.15	650	30.07	18.30	5.61
800	16.46	37.51	8.33	16.23	4.79	0.14	700	30.11	18.39	5.60
900	16.72	38.16	9.25	15.68	5.13	0.13	750	30.10	18.47	5.59
1000	16.92	38.71	9.98	15.49	5.43	0.11	800	30.51	18.25	5.58
1100	17.07	39.51	10.53	15.69	5.92	0.10	850	30.34	18.36	5.45
1200	17.16	40.32	10.92	16.12	6.49	0.09	900	29.78	18.05	5.41
1300	17.19	41.37	11.27	16.74	7.36	0.07	940	29.78	18.18	5.44
1400	17.19	42.40	11.62	17.77	8.37	0.07	1000	29.57	18.01	5.44
1500	17.11	43.54	12.01	18.79	9.72	0.06	1050	29.53	17.98	5.43
1600	17.00	44.48	12.50	20.33	11.09	0.05	1100	29.54	17.82	5.47
1700	16.82	44.54	13.10	22.19	11.51	0.05	1150	29.36	17.70	5.49
1800	16.60	44.17	13.85	24.40	11.46	0.05	1200	29.49	17.51	5.48
1900	16.33	42.78	14.72	28.36	10.17	0.05	1300	29.19	17.33	5.46
2000	16.00	41.59	15.82	33.75	9.29	0.06	1400	28.81	17.19	5.44
2100	15.67	40.02	17.02	47.91	8.12	0.06	1500	28.40	17.01	5.44
2200	15.29	38.81	18.36	33.10	7.42	0.06	1600	28.17	16.77	5.45
2300	14.86	37.74	19.56	27.81	6.91	0.07	1700	27.95	16.50	5.45
2400	14.47	36.76	20.02	23.97	6.45	0.07	1800	27.82	16.33	5.42
2500	13.99	35.62	19.80	21.42	5.96	0.08	1900	27.66	16.07	5.41
2600	13.56	34.89	18.55	19.76	5.73	0.09	2000	27.65	15.84	5.29
2700	13.09	34.15	17.04	18.30	5.50	0.09	2100	27.50	15.75	5.36
2800	12.61	33.60	15.48	17.21	5.40	0.10	2200	27.52	15.66	5.39
2900	12.15	33.08	14.20	16.37	5.29	0.10	2300	27.56	15.71	5.38
3000	11.67	32.63	13.01	15.63	5.21	0.11	2400	27.48	15.85	5.43
3100	11.21	32.18	12.00	15.20	5.14	0.11	2500	27.69	15.80	5.43
3200	10.77	31.70	11.15	14.77	5.03	0.11	2600	28.02	15.97	5.44
3400	9.87	31.09	9.75	14.42	5.01	0.11	2700	28.37	16.24	5.57
3600	9.06	30.39	8.72	14.38	4.90	0.11	2800	28.62	16.39	5.56
3800	8.28	29.76	7.94	14.83	4.84	0.10	2900	29.00	16.45	5.56
4000	7.55	29.39	7.40	15.42	4.92	0.08	3000	29.31	16.74	5.76
4500	5.73	29.74	6.48	19.95	6.08	0.04	3100	29.47	16.64	5.78
5000	4.06	28.85	5.01	32.28	5.98	0.07	3200	29.52	16.85	5.81
5500	1.66	27.67	4.00	16.09	5.98	0.15	3300	30.11	17.33	6.01
6000	-1.57	27.11	3.35	10.90	6.88	0.22	3400	30.22	17.77	6.16
6500	-5.27	27.02	2.95	8.09	8.75	0.30	3500	30.25	18.06	6.07

Typical Performance Curves

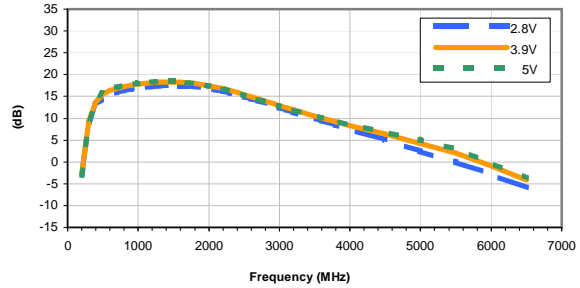
GAIN vs. TEMPERATURE

INPUT POWER = -20, VOLTAGE = 3.9V



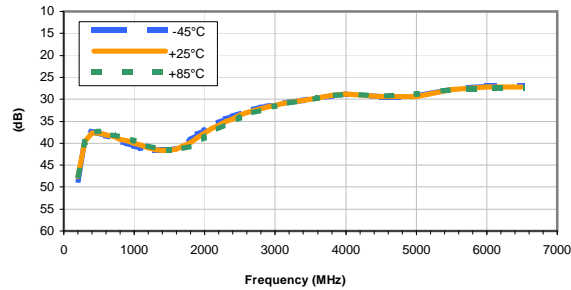
GAIN vs. VOLTAGE

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



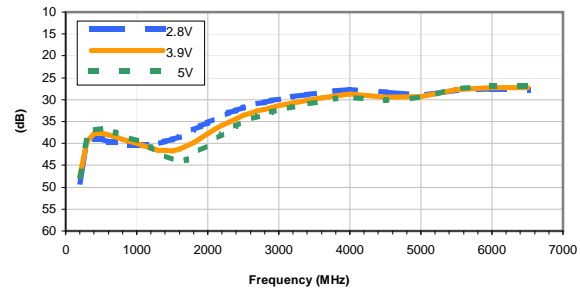
ISOLATION vs. TEMPERATURE

INPUT POWER = -20, VOLTAGE = 3.9V



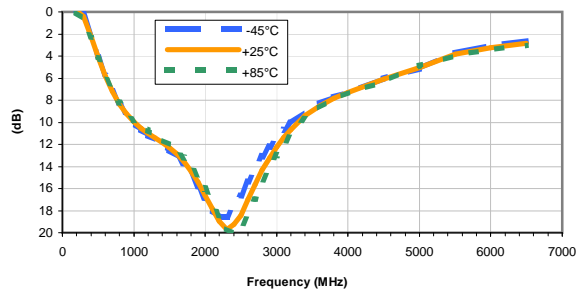
ISOLATION vs. VOLTAGE

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



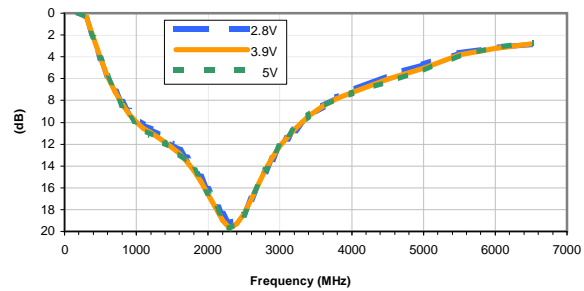
INPUT RETURN LOSS vs. TEMPERATURE

INPUT POWER = -20, VOLTAGE = 3.9V



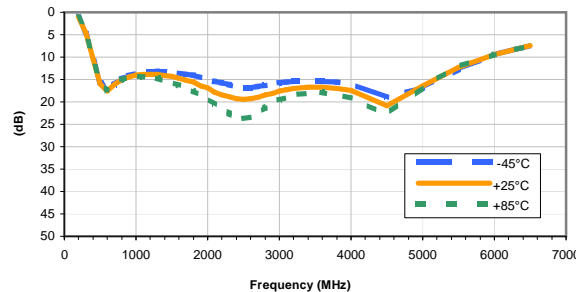
INPUT RETURN LOSS vs. VOLTAGE

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



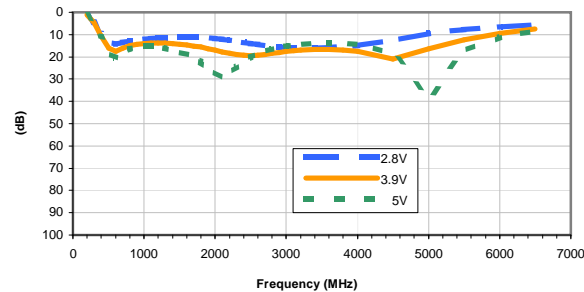
OUTPUT RETURN LOSS vs. TEMPERATURE

INPUT POWER = -20, VOLTAGE = 3.9V



OUTPUT RETURN LOSS vs. VOLTAGE

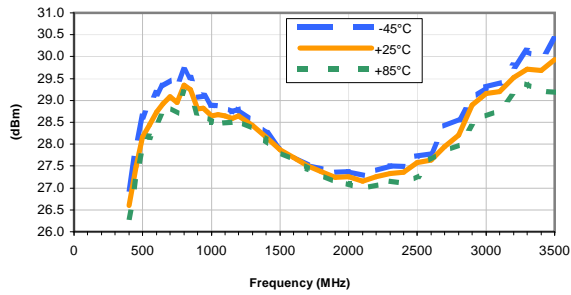
INPUT POWER = -20, Temperature = +25°C



Typical Performance Curves

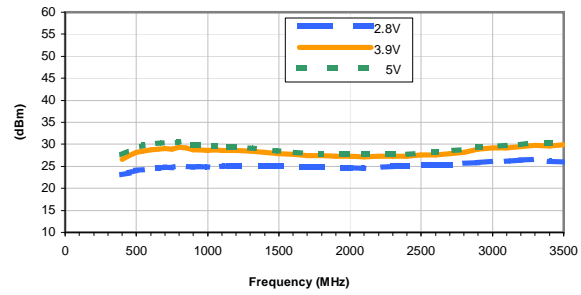
OUTPUT IP3 vs. TEMPERATURE

INPUT POWER = -20, VOLTAGE = 3.9V



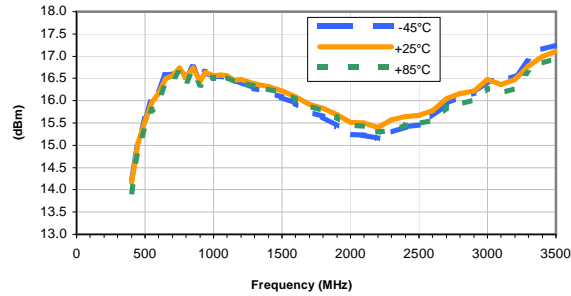
OUTPUT IP-3 vs. VOLTAGE

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



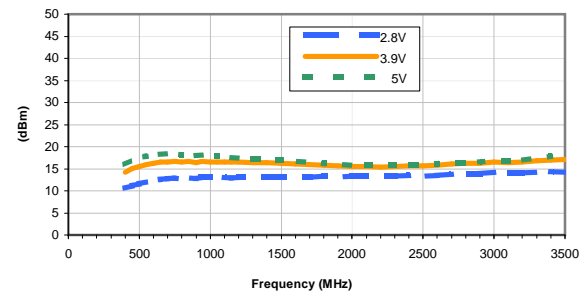
OUTPUT POWER at 1dB Compression vs. TEMPERATURE

VOLTAGE = 3.9V



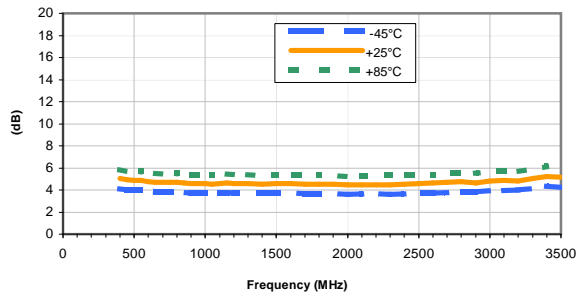
OUTPUT POWER at 1dB Compression vs. VOLTAGE

Temperature = +25°C



Noise Figure vs. TEMPERATURE

VOLTAGE = 3.9V



Noise Figure vs. VOLTAGE

Temperature = +25°C

