

## Typical Performance Data

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

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 3.59V, Id = 16.00mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10	21.45	23.37	33.53	38.14	1.02	0.36	19.19	4.51	2.40
20	21.44	23.35	34.26	40.32	1.02	0.36	22.40	4.02	2.07
30	21.44	23.38	35.16	47.24	1.03	0.37	21.59	4.30	2.15
50	21.39	23.41	33.28	42.67	1.03	0.37	19.02	2.87	2.08
100	21.39	23.34	33.30	33.58	1.03	0.36	18.07	3.71	2.04
200	21.35	23.36	31.23	28.61	1.03	0.37	17.81	3.39	2.03
300	21.31	23.35	29.69	26.26	1.03	0.38	18.38	3.29	2.07
400	21.26	23.36	28.30	24.34	1.03	0.39	18.99	3.52	2.06
500	21.17	23.33	26.52	22.29	1.02	0.40	17.70	3.21	2.10
600	21.08	23.34	25.54	20.82	1.02	0.42	18.01	3.44	2.18
700	20.98	23.28	24.37	19.69	1.02	0.43	17.83	3.34	2.10
800	20.86	23.27	23.29	18.86	1.02	0.44	17.72	3.06	2.13
900	20.74	23.19	22.38	18.14	1.02	0.45	18.45	3.56	2.18
1000	20.61	23.15	21.45	17.31	1.02	0.47	16.56	2.89	2.19
1200	20.31	23.06	20.05	16.14	1.02	0.50	17.62	3.10	2.27
1400	19.98	22.92	18.82	15.29	1.02	0.52	17.96	3.30	2.27
1600	19.64	22.77	17.68	14.60	1.01	0.55	17.65	2.92	2.39
1800	19.28	22.70	16.82	14.13	1.02	0.59	17.40	2.70	2.36
2000	18.91	22.55	16.06	13.75	1.02	0.61	17.34	2.56	2.39
2200	18.54	22.36	15.35	13.41	1.02	0.64	18.02	3.08	2.35
2400	18.16	22.15	14.79	13.20	1.02	0.66	18.56	3.28	2.36
2600	17.79	21.98	14.30	13.00	1.02	0.68	17.77	2.36	2.44
2800	17.42	21.81	13.90	12.90	1.03	0.70	18.01	2.69	2.46
3000	17.07	21.64	13.52	12.74	1.03	0.72	17.88	2.65	2.43
3200	16.70	21.44	13.16	12.65	1.03	0.74	18.64	3.32	2.45
3400	16.35	21.27	12.91	12.48	1.04	0.75	18.41	3.13	2.41
3600	16.00	21.07	12.68	12.46	1.05	0.77	18.49	3.24	2.44
3800	15.67	20.94	12.50	12.37	1.05	0.78	18.18	3.02	2.47
4000	15.33	20.79	12.25	12.27	1.06	0.80	18.12	3.70	2.50
4200	15.00	20.62	12.05	12.18	1.07	0.81	17.85	3.75	2.43
4400	14.69	20.45	11.84	12.08	1.07	0.82	17.71	3.69	2.50
4600	14.36	20.35	11.66	12.00	1.09	0.83	17.49	3.62	2.51
4800	14.05	20.22	11.43	11.88	1.10	0.84	17.17	3.59	2.55
5000	13.76	20.08	11.26	11.76	1.10	0.85	17.08	2.63	2.63
5200	13.43	19.99	10.95	11.69	1.12	0.86	16.57	3.07	2.70
5400	13.12	19.86	10.61	11.55	1.13	0.87	16.16	3.37	2.72
5600	12.80	19.77	10.35	11.46	1.14	0.88	16.05	3.06	2.66
5800	12.51	19.69	10.09	11.33	1.15	0.89	15.92	2.61	2.70
6000	12.22	19.59	9.73	11.20	1.16	0.91	15.85	2.30	2.75
6200	11.91	19.53	9.37	11.11	1.17	0.92	15.34	2.34	2.82
6400	11.60	19.51	9.07	11.01	1.18	0.94	15.13	2.29	2.88
6600	11.31	19.43	8.76	10.93	1.19	0.95	15.22	2.05	2.93
6800	11.02	19.40	8.45	10.82	1.20	0.96	14.93	1.77	3.00
7000	10.73	19.35	8.12	10.75	1.21	0.98	14.66	1.60	3.12
7200	10.43	19.33	7.82	10.66	1.23	1.00	14.40	1.50	3.14
7400	10.14	19.32	7.52	10.52	1.24	1.01	14.10	1.42	3.25
7600	9.86	19.28	7.27	10.45	1.25	1.03	14.05	1.15	3.27
7800	9.56	19.27	7.01	10.30	1.26	1.04	13.80	1.03	3.37
8000	9.27	19.26	6.76	10.12	1.27	1.05	13.45	1.03	3.42

## 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: Vd = 3.55V, Id = 12.00mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10	19.07	21.61	13.39	12.57	1.03	0.35	23.28	-0.15	2.54
20	19.08	21.69	13.62	13.15	1.03	0.38	19.61	-0.63	2.25
30	19.07	21.69	13.58	13.21	1.03	0.38	20.14	-0.43	2.31
50	19.02	21.75	13.49	13.56	1.04	0.40	21.40	-1.44	2.26
100	19.01	21.67	13.47	13.05	1.03	0.38	18.59	-0.84	2.16
200	18.99	21.67	13.44	13.04	1.03	0.39	18.17	-1.09	2.21
300	18.96	21.66	13.40	13.07	1.03	0.40	18.56	-1.17	2.30
400	18.95	21.66	13.38	13.11	1.03	0.41	19.19	-1.01	2.28
500	18.88	21.61	13.20	12.84	1.02	0.41	18.29	-1.19	2.30
600	18.82	21.62	13.11	12.92	1.02	0.43	17.20	-1.07	2.34
700	18.74	21.53	12.93	12.52	1.02	0.43	16.26	-1.16	2.31
800	18.66	21.52	12.78	12.55	1.01	0.45	16.25	-1.39	2.27
900	18.58	21.42	12.62	12.22	1.01	0.45	16.53	-1.01	2.35
1000	18.49	21.37	12.40	11.99	1.00	0.46	14.88	-1.49	2.31
1200	18.27	21.25	12.03	11.67	0.99	0.49	15.48	-1.44	2.44
1400	18.03	21.07	11.64	11.26	0.97	0.51	15.41	-1.29	2.45
1600	17.76	20.87	11.20	10.88	0.96	0.53	15.42	-1.64	2.51
1800	17.50	20.85	10.91	11.01	0.95	0.58	15.15	-1.89	2.50
2000	17.23	20.69	10.59	10.84	0.94	0.60	15.37	-1.97	2.55
2200	16.93	20.46	10.27	10.48	0.93	0.62	15.97	-1.54	2.49
2400	16.61	20.20	10.06	10.29	0.92	0.63	16.32	-1.45	2.49
2600	16.35	20.05	9.88	10.25	0.92	0.66	16.14	-2.21	2.56
2800	16.05	19.91	9.72	10.29	0.91	0.68	16.34	-1.90	2.60
3000	15.79	19.77	9.57	10.27	0.91	0.71	17.26	-1.80	2.55
3200	15.46	19.50	9.39	10.07	0.90	0.72	17.76	-1.24	2.54
3400	15.18	19.35	9.33	9.94	0.90	0.73	17.88	-1.33	2.51
3600	14.89	19.16	9.26	10.01	0.90	0.75	18.64	-1.10	2.52
3800	14.62	19.13	9.25	10.18	0.90	0.77	18.70	-1.21	2.56
4000	14.32	19.04	9.11	10.28	0.91	0.80	18.71	-0.26	2.57
4200	14.04	18.88	9.04	10.25	0.91	0.82	18.51	-0.01	2.51
4400	13.77	18.71	8.97	10.17	0.91	0.83	18.26	0.07	2.56
4600	13.47	18.76	8.94	10.52	0.93	0.86	17.83	0.21	2.59
4800	13.20	18.72	8.87	10.64	0.94	0.88	17.39	0.32	2.62
5000	12.96	18.67	8.91	10.62	0.95	0.89	18.45	-0.69	2.66
5200	12.65	18.64	8.69	10.79	0.97	0.91	16.81	0.12	2.72
5400	12.35	18.57	8.45	10.78	0.97	0.93	16.18	0.83	2.77
5600	12.04	18.58	8.37	10.87	0.99	0.95	15.87	0.52	2.77
5800	11.77	18.61	8.27	10.92	1.01	0.96	15.75	0.08	2.76
6000	11.51	18.64	8.06	10.88	1.02	0.98	16.07	-0.26	2.80
6200	11.20	18.69	7.80	10.90	1.04	1.00	15.54	-0.01	2.83
6400	10.89	18.79	7.58	10.83	1.06	1.02	14.90	0.21	2.90
6600	10.58	18.81	7.41	10.80	1.08	1.04	14.97	-0.03	2.99
6800	10.32	18.92	7.19	10.80	1.11	1.05	14.60	-0.33	3.02
7000	10.03	18.97	6.96	10.72	1.12	1.07	14.59	-0.40	3.18
7200	9.72	19.08	6.72	10.68	1.15	1.09	14.31	-0.34	3.19
7400	9.43	19.19	6.49	10.54	1.17	1.10	14.02	-0.29	3.28
7600	9.15	19.27	6.30	10.45	1.19	1.12	13.91	-0.58	3.35
7800	8.85	19.39	6.10	10.29	1.22	1.13	13.78	-0.55	3.35
8000	8.54	19.52	5.89	10.06	1.24	1.14	13.40	-0.31	3.48

## 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: Vd = 3.63V, Id = 20.00mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10	22.64	24.66	20.16	17.71	1.02	0.34	21.26	7.73	2.40
20	22.63	24.59	20.00	18.19	1.02	0.34	22.44	7.23	2.02
30	22.63	24.61	19.95	17.90	1.02	0.34	22.38	7.54	2.06
50	22.59	24.62	20.17	17.83	1.02	0.35	19.92	5.89	2.00
100	22.58	24.58	20.23	18.10	1.02	0.34	19.78	6.86	1.97
200	22.54	24.59	20.37	17.75	1.02	0.35	19.54	6.51	1.96
300	22.48	24.59	20.49	17.47	1.02	0.36	20.04	6.40	1.97
400	22.41	24.59	20.56	17.07	1.03	0.37	20.92	6.66	2.04
500	22.32	24.56	20.86	16.74	1.03	0.38	19.71	6.27	2.05
600	22.21	24.56	21.10	16.23	1.03	0.40	20.25	6.55	2.12
700	22.08	24.51	21.42	15.97	1.03	0.41	20.22	6.46	2.07
800	21.94	24.49	21.69	15.58	1.03	0.43	20.17	6.17	2.06
900	21.80	24.42	21.97	15.38	1.03	0.44	20.85	6.68	2.11
1000	21.64	24.37	22.24	15.03	1.03	0.45	18.93	5.94	2.11
1200	21.29	24.27	22.57	14.44	1.04	0.48	20.20	6.21	2.21
1400	20.92	24.13	22.52	14.01	1.04	0.51	20.56	6.44	2.22
1600	20.52	23.96	21.97	13.65	1.04	0.54	20.25	6.05	2.33
1800	20.12	23.83	21.20	13.32	1.05	0.57	20.00	5.81	2.36
2000	19.70	23.65	20.35	13.11	1.06	0.60	19.76	5.62	2.32
2200	19.29	23.44	19.38	12.95	1.06	0.62	20.29	6.13	2.34
2400	18.87	23.21	18.53	12.84	1.07	0.64	20.68	6.32	2.31
2600	18.47	23.01	17.71	12.71	1.07	0.66	20.00	5.35	2.38
2800	18.06	22.80	17.05	12.65	1.08	0.68	20.09	5.67	2.42
3000	17.67	22.58	16.45	12.54	1.09	0.70	19.67	5.51	2.40
3200	17.28	22.36	15.89	12.47	1.09	0.72	19.98	6.02	2.41
3400	16.90	22.15	15.44	12.36	1.10	0.73	19.65	5.75	2.40
3600	16.53	21.93	15.04	12.30	1.11	0.74	19.52	5.75	2.40
3800	16.17	21.74	14.71	12.19	1.11	0.75	19.16	5.44	2.42
4000	15.81	21.53	14.34	12.05	1.12	0.76	18.72	5.81	2.50
4200	15.47	21.33	14.01	11.93	1.13	0.77	18.45	5.67	2.43
4400	15.13	21.13	13.68	11.81	1.13	0.78	18.22	5.45	2.49
4600	14.80	20.96	13.37	11.67	1.14	0.79	17.97	5.26	2.48
4800	14.47	20.78	13.01	11.49	1.15	0.80	17.60	5.08	2.54
5000	14.16	20.60	12.67	11.35	1.15	0.80	17.52	4.37	2.59
5200	13.82	20.46	12.28	11.21	1.17	0.81	16.95	4.47	2.66
5400	13.51	20.29	11.86	11.04	1.17	0.82	16.48	4.51	2.71
5600	13.19	20.16	11.48	10.91	1.18	0.83	16.41	4.22	2.68
5800	12.89	20.03	11.10	10.76	1.19	0.84	16.30	3.83	2.71
6000	12.59	19.88	10.66	10.60	1.19	0.85	16.10	3.53	2.76
6200	12.28	19.77	10.24	10.49	1.20	0.86	15.62	3.42	2.80
6400	11.97	19.69	9.87	10.41	1.21	0.88	15.44	3.30	2.88
6600	11.68	19.57	9.50	10.31	1.21	0.89	15.54	3.10	2.97
6800	11.39	19.49	9.12	10.19	1.22	0.90	15.27	2.78	2.99
7000	11.09	19.39	8.74	10.12	1.22	0.91	14.96	2.59	3.09
7200	10.80	19.32	8.41	10.02	1.23	0.93	14.66	2.37	3.16
7400	10.51	19.26	8.07	9.91	1.24	0.94	14.34	2.26	3.23
7600	10.23	19.19	7.78	9.84	1.24	0.96	14.29	1.98	3.27
7800	9.93	19.12	7.49	9.71	1.24	0.97	14.03	1.83	3.38
8000	9.65	19.06	7.23	9.58	1.25	0.98	13.65	1.80	3.45

## 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: Vd = 3.79V, Id = 16.00mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10	22.15	24.00	28.02	24.80	1.02	0.34	18.26	4.36	1.84
20	22.12	23.91	26.44	26.02	1.02	0.34	19.95	4.00	1.61
30	22.12	23.97	29.11	25.17	1.02	0.34	19.71	4.15	1.64
50	22.06	23.99	28.64	24.92	1.02	0.35	17.39	2.76	1.62
100	22.06	23.90	30.50	26.58	1.02	0.35	17.30	3.61	1.56
200	22.02	23.91	30.91	25.11	1.02	0.35	16.88	3.24	1.60
300	21.97	23.90	28.09	23.35	1.02	0.36	17.35	3.18	1.59
400	21.92	23.91	26.51	21.77	1.02	0.37	18.02	3.45	1.62
500	21.84	23.87	25.65	20.52	1.02	0.38	16.88	3.14	1.66
600	21.75	23.88	24.87	19.28	1.02	0.39	17.29	3.42	1.66
700	21.64	23.81	24.46	18.65	1.02	0.40	17.17	3.33	1.60
800	21.53	23.81	24.07	17.88	1.02	0.42	17.06	3.02	1.65
900	21.41	23.71	23.26	17.63	1.02	0.42	17.79	3.50	1.70
1000	21.28	23.67	22.54	17.02	1.02	0.44	16.01	2.79	1.67
1200	21.00	23.57	21.72	16.06	1.02	0.46	16.95	3.01	1.76
1400	20.69	23.41	20.43	15.41	1.02	0.49	17.38	3.28	1.73
1600	20.34	23.26	19.25	14.82	1.02	0.52	17.09	2.90	1.87
1800	19.99	23.19	18.37	14.32	1.02	0.55	16.74	2.66	1.84
2000	19.64	23.03	17.75	13.95	1.02	0.57	16.57	2.38	1.86
2200	19.28	22.83	17.14	13.55	1.02	0.59	17.29	2.91	1.84
2400	18.90	22.62	16.70	13.26	1.02	0.61	18.06	3.32	1.82
2600	18.54	22.44	16.20	12.97	1.03	0.63	17.14	2.37	1.91
2800	18.17	22.27	15.61	12.92	1.03	0.66	17.39	2.65	1.92
3000	17.84	22.10	15.12	12.86	1.04	0.67	17.05	2.52	1.89
3200	17.48	21.87	14.87	12.70	1.04	0.69	18.26	3.25	1.87
3400	17.15	21.69	14.65	12.51	1.04	0.70	18.09	3.10	1.82
3600	16.81	21.47	14.32	12.46	1.05	0.71	18.29	3.27	1.86
3800	16.48	21.34	13.99	12.30	1.05	0.73	18.01	3.05	1.87
4000	16.15	21.18	13.64	12.12	1.06	0.74	18.25	3.77	1.93
4200	15.84	21.00	13.44	11.97	1.07	0.75	18.23	4.00	1.90
4400	15.55	20.80	13.12	11.99	1.07	0.76	18.16	3.96	1.93
4600	15.23	20.66	13.02	11.83	1.08	0.76	18.31	4.10	1.90
4800	14.93	20.52	12.60	11.62	1.08	0.77	17.89	3.96	1.96
5000	14.64	20.36	12.33	11.41	1.09	0.78	17.75	3.10	2.04
5200	14.29	20.30	11.64	11.11	1.10	0.79	17.38	3.65	2.09
5400	13.98	20.15	11.31	10.95	1.10	0.81	17.07	3.94	2.12
5600	13.69	20.01	11.19	10.84	1.11	0.81	16.99	3.81	2.07
5800	13.37	19.95	10.57	10.64	1.12	0.83	16.87	3.42	2.13
6000	13.09	19.83	10.27	10.48	1.13	0.84	16.73	2.93	2.15
6200	12.78	19.77	9.77	10.38	1.13	0.86	16.24	2.94	2.21
6400	12.51	19.69	9.70	10.34	1.14	0.87	16.05	3.07	2.24
6600	12.23	19.58	9.37	10.34	1.15	0.88	16.14	2.97	2.32
6800	11.98	19.50	9.18	10.19	1.16	0.89	15.88	2.61	2.31
7000	11.71	19.41	8.79	10.29	1.16	0.91	15.65	2.41	2.46
7200	11.47	19.32	8.59	10.30	1.17	0.92	15.32	2.34	2.47
7400	11.22	19.25	8.25	10.27	1.17	0.93	15.08	2.30	2.54
7600	10.97	19.16	7.96	10.19	1.17	0.95	15.01	2.08	2.60
7800	10.71	19.10	7.67	10.06	1.18	0.96	14.76	2.02	2.53
8000	10.43	19.07	7.27	9.91	1.18	0.97	14.30	2.02	2.65

## 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: Vd = 3.74V, Id = 12.00mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)			(dBm)	(dBm)	(dB)
10	19.82	21.97	15.63	14.27	1.02	0.32	17.25	-0.46	1.92
20	19.84	22.05	16.07	15.03	1.03	0.35	23.75	-0.86	1.78
30	19.82	22.06	15.74	15.18	1.03	0.36	23.22	-0.72	1.87
50	19.74	22.15	15.62	15.67	1.03	0.39	20.10	-1.72	1.79
100	19.73	22.04	15.29	14.63	1.03	0.36	15.98	-1.12	1.73
200	19.70	22.05	15.02	14.49	1.03	0.37	15.50	-1.43	1.76
300	19.69	22.01	15.37	14.85	1.02	0.38	16.29	-1.47	1.82
400	19.69	22.00	15.56	15.11	1.02	0.38	16.88	-1.27	1.80
500	19.62	21.94	15.39	14.75	1.02	0.39	15.71	-1.44	1.78
600	19.57	21.96	15.36	14.96	1.02	0.41	15.51	-1.28	1.86
700	19.48	21.85	15.07	14.27	1.01	0.40	14.81	-1.37	1.78
800	19.41	21.86	14.86	14.22	1.01	0.42	14.78	-1.63	1.78
900	19.33	21.74	14.59	13.76	1.00	0.42	15.29	-1.25	1.84
1000	19.24	21.70	14.17	13.42	1.00	0.43	13.54	-1.76	1.88
1200	19.03	21.57	13.66	12.86	0.99	0.45	14.05	-1.73	1.93
1400	18.81	21.36	13.25	12.48	0.97	0.47	14.18	-1.54	1.94
1600	18.54	21.15	12.66	11.99	0.96	0.49	13.95	-1.87	1.97
1800	18.29	21.17	12.27	12.20	0.96	0.54	13.58	-2.14	1.99
2000	18.02	21.03	11.88	11.92	0.95	0.57	13.58	-2.34	1.98
2200	17.75	20.77	11.58	11.40	0.93	0.58	14.13	-1.96	1.96
2400	17.43	20.49	11.42	11.08	0.93	0.58	14.59	-1.64	1.93
2600	17.17	20.34	11.26	10.88	0.92	0.60	14.01	-2.45	2.02
2800	16.85	20.22	10.95	10.87	0.92	0.63	14.16	-2.25	2.02
3000	16.61	20.13	10.69	10.80	0.92	0.66	14.45	-2.23	1.97
3200	16.29	19.82	10.55	10.45	0.91	0.66	15.43	-1.60	1.98
3400	16.03	19.66	10.51	10.20	0.90	0.67	15.37	-1.71	1.95
3600	15.76	19.42	10.44	10.25	0.90	0.68	16.01	-1.46	1.93
3800	15.49	19.43	10.37	10.41	0.91	0.72	15.94	-1.61	1.97
4000	15.20	19.39	10.13	10.50	0.91	0.75	16.84	-0.73	1.99
4200	14.92	19.24	10.06	10.35	0.91	0.76	17.39	-0.36	1.92
4400	14.68	19.03	9.91	10.22	0.90	0.77	17.79	-0.29	1.99
4600	14.39	19.04	9.95	10.59	0.92	0.79	18.56	0.07	1.99
4800	14.15	19.02	9.81	10.73	0.93	0.82	18.23	0.07	1.99
5000	13.91	18.96	9.89	10.77	0.95	0.82	18.77	-0.77	2.08
5200	13.57	18.99	9.41	10.87	0.96	0.86	18.07	0.00	2.12
5400	13.28	18.90	9.10	10.70	0.95	0.88	17.51	0.68	2.16
5600	12.98	18.87	9.13	10.69	0.97	0.89	17.39	0.71	2.16
5800	12.67	18.92	8.83	10.78	0.99	0.92	17.40	0.31	2.12
6000	12.43	18.95	8.65	10.66	1.00	0.93	17.67	-0.23	2.19
6200	12.12	19.03	8.25	10.64	1.01	0.96	17.11	-0.01	2.23
6400	11.82	19.09	8.18	10.47	1.03	0.97	16.28	0.46	2.26
6600	11.53	19.10	7.95	10.51	1.05	0.99	16.30	0.51	2.32
6800	11.30	19.15	7.85	10.42	1.07	1.00	15.93	0.05	2.39
7000	11.04	19.19	7.54	10.48	1.08	1.02	15.97	-0.04	2.46
7200	10.79	19.22	7.37	10.50	1.10	1.03	15.52	0.08	2.54
7400	10.55	19.28	7.10	10.50	1.12	1.05	15.18	0.24	2.55
7600	10.30	19.30	6.89	10.46	1.13	1.06	15.09	-0.05	2.60
7800	10.04	19.37	6.66	10.41	1.15	1.08	14.91	-0.02	2.60
8000	9.75	19.47	6.31	10.29	1.16	1.10	14.32	0.35	2.69

## 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: Vd = 3.82V, Id = 20.00mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10	23.21	25.36	16.39	14.39	1.02	0.32	20.44	7.71	1.82
20	23.19	25.20	16.17	14.90	1.02	0.32	21.48	7.27	1.53
30	23.20	25.25	16.43	14.70	1.02	0.32	21.18	7.52	1.60
50	23.15	25.24	16.47	14.77	1.02	0.33	18.66	5.87	1.57
100	23.15	25.17	16.94	15.25	1.02	0.33	19.13	6.85	1.49
200	23.11	25.18	17.26	15.17	1.02	0.33	18.63	6.42	1.55
300	23.04	25.18	16.84	14.70	1.02	0.34	19.17	6.38	1.51
400	22.96	25.19	16.68	14.30	1.02	0.35	20.08	6.68	1.57
500	22.86	25.15	16.75	14.08	1.02	0.36	18.94	6.29	1.59
600	22.75	25.15	16.79	13.74	1.03	0.37	19.68	6.63	1.62
700	22.63	25.09	17.09	13.68	1.03	0.38	19.71	6.54	1.56
800	22.50	25.07	17.40	13.50	1.03	0.40	19.87	6.23	1.58
900	22.36	24.98	17.67	13.53	1.03	0.41	20.73	6.76	1.62
1000	22.21	24.93	18.06	13.41	1.03	0.42	18.90	5.94	1.62
1200	21.89	24.80	18.84	13.22	1.04	0.45	19.99	6.22	1.72
1400	21.52	24.64	19.06	12.95	1.04	0.48	20.48	6.52	1.69
1600	21.14	24.46	19.34	12.76	1.04	0.50	20.19	6.12	1.82
1800	20.75	24.31	19.53	12.55	1.05	0.53	19.91	5.88	1.85
2000	20.35	24.11	19.76	12.46	1.06	0.56	19.60	5.57	1.83
2200	19.95	23.89	19.56	12.31	1.06	0.58	20.18	6.09	1.79
2400	19.54	23.66	19.32	12.16	1.07	0.59	20.89	6.51	1.78
2600	19.14	23.43	18.88	12.05	1.07	0.61	20.12	5.51	1.83
2800	18.75	23.21	18.36	12.11	1.08	0.63	20.26	5.78	1.86
3000	18.38	22.98	17.89	12.19	1.08	0.65	19.72	5.58	1.89
3200	18.01	22.73	17.61	12.11	1.09	0.66	20.39	6.25	1.87
3400	17.65	22.50	17.26	12.04	1.09	0.67	20.21	6.04	1.82
3600	17.29	22.25	16.68	11.92	1.10	0.68	20.17	6.10	1.81
3800	16.93	22.06	16.17	11.78	1.10	0.69	19.84	5.81	1.84
4000	16.58	21.84	15.68	11.62	1.11	0.70	19.60	6.31	1.92
4200	16.25	21.62	15.40	11.51	1.11	0.71	19.26	6.30	1.85
4400	15.94	21.39	14.97	11.52	1.11	0.72	19.10	6.11	1.90
4600	15.62	21.19	14.74	11.31	1.12	0.72	19.00	6.10	1.93
4800	15.30	21.00	14.10	11.05	1.13	0.73	18.60	5.84	1.97
5000	14.99	20.81	13.63	10.80	1.13	0.73	18.59	5.16	2.03
5200	14.63	20.69	12.78	10.42	1.14	0.74	18.00	5.34	2.08
5400	14.32	20.51	12.41	10.29	1.14	0.75	17.52	5.31	2.14
5600	14.03	20.33	12.21	10.19	1.14	0.75	17.44	5.13	2.09
5800	13.70	20.22	11.43	9.92	1.15	0.77	17.34	4.79	2.13
6000	13.41	20.06	11.07	9.79	1.15	0.77	17.17	4.36	2.17
6200	13.10	19.94	10.51	9.68	1.15	0.79	16.65	4.23	2.20
6400	12.84	19.81	10.45	9.68	1.16	0.80	16.41	4.18	2.24
6600	12.56	19.66	10.06	9.66	1.16	0.81	16.47	4.04	2.33
6800	12.30	19.53	9.83	9.54	1.16	0.82	16.27	3.70	2.37
7000	12.04	19.40	9.41	9.62	1.17	0.84	16.01	3.51	2.45
7200	11.80	19.26	9.19	9.64	1.17	0.85	15.64	3.33	2.49
7400	11.55	19.15	8.83	9.60	1.17	0.86	15.38	3.25	2.58
7600	11.30	19.03	8.49	9.50	1.17	0.87	15.33	2.93	2.58
7800	11.04	18.93	8.16	9.38	1.17	0.88	15.07	2.83	2.71
8000	10.76	18.85	7.74	9.25	1.17	0.90	14.53	2.75	2.70



## 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: Vd = 3.42V, Id = 16.00mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10	20.88	22.98	23.72	25.33	1.03	0.37	20.71	4.55	2.97
20	20.88	22.94	24.74	25.37	1.03	0.38	23.98	4.14	2.61
30	20.87	22.95	23.86	26.02	1.03	0.38	23.17	4.31	2.64
50	20.84	22.98	24.45	26.73	1.03	0.39	20.61	3.01	2.55
100	20.83	22.92	25.06	25.81	1.03	0.38	18.79	3.82	2.41
200	20.80	22.93	25.22	25.35	1.03	0.39	18.54	3.55	2.45
300	20.75	22.94	24.36	23.89	1.03	0.40	19.37	3.46	2.49
400	20.69	22.95	23.36	22.33	1.03	0.41	20.08	3.62	2.47
500	20.60	22.92	22.24	20.54	1.03	0.42	18.47	3.34	2.56
600	20.50	22.94	21.52	19.50	1.03	0.44	18.69	3.50	2.56
700	20.39	22.89	20.57	18.47	1.03	0.45	18.39	3.38	2.54
800	20.26	22.88	19.74	17.80	1.03	0.47	18.29	3.07	2.56
900	20.13	22.81	19.04	17.06	1.02	0.48	19.01	3.54	2.59
1000	19.99	22.77	18.33	16.35	1.02	0.49	16.92	2.92	2.58
1200	19.69	22.68	17.18	15.34	1.02	0.52	18.06	3.08	2.69
1400	19.35	22.55	16.20	14.56	1.02	0.55	18.30	3.23	2.70
1600	18.99	22.39	15.34	13.96	1.01	0.58	18.03	2.87	2.84
1800	18.63	22.30	14.68	13.63	1.02	0.62	17.92	2.67	2.86
2000	18.25	22.14	14.15	13.34	1.02	0.64	17.98	2.67	2.87
2200	17.87	21.95	13.61	13.06	1.02	0.67	18.49	3.18	2.87
2400	17.47	21.74	13.16	12.91	1.02	0.69	18.83	3.21	2.85
2600	17.10	21.56	12.77	12.79	1.02	0.72	18.27	2.37	2.93
2800	16.72	21.40	12.41	12.77	1.03	0.74	18.43	2.72	2.97
3000	16.35	21.23	12.12	12.70	1.03	0.76	18.37	2.72	2.93
3200	15.96	21.03	11.80	12.67	1.03	0.78	18.55	3.27	2.98
3400	15.60	20.87	11.59	12.58	1.04	0.80	18.28	3.11	2.91
3600	15.24	20.69	11.40	12.68	1.05	0.81	18.10	3.10	3.00
3800	14.89	20.57	11.24	12.71	1.06	0.83	17.81	2.90	2.98
4000	14.53	20.41	11.05	12.68	1.07	0.85	17.39	3.43	3.05
4200	14.19	20.27	10.93	12.63	1.09	0.86	17.03	3.38	3.01
4400	13.85	20.12	10.78	12.51	1.09	0.87	16.80	3.25	3.12
4600	13.51	20.03	10.67	12.40	1.11	0.88	16.49	3.07	3.08
4800	13.18	19.93	10.54	12.28	1.13	0.89	16.20	2.99	3.12
5000	12.87	19.80	10.42	12.15	1.14	0.90	16.15	2.18	3.21
5200	12.53	19.73	10.25	12.06	1.16	0.91	15.62	2.49	3.26
5400	12.20	19.62	9.95	11.86	1.17	0.92	15.10	2.71	3.31
5600	11.88	19.55	9.70	11.83	1.18	0.94	15.08	2.25	3.31
5800	11.57	19.49	9.44	11.70	1.20	0.95	14.98	1.83	3.30
6000	11.25	19.43	9.13	11.62	1.21	0.96	14.90	1.63	3.39
6200	10.93	19.38	8.77	11.50	1.23	0.98	14.36	1.63	3.37
6400	10.61	19.38	8.44	11.35	1.24	0.99	14.18	1.52	3.50
6600	10.28	19.36	8.12	11.22	1.26	1.01	14.29	1.18	3.63
6800	9.96	19.37	7.79	11.02	1.28	1.02	13.93	0.95	3.66
7000	9.64	19.36	7.49	10.85	1.29	1.04	13.67	0.79	3.82
7200	9.30	19.39	7.19	10.65	1.31	1.05	13.47	0.67	3.92
7400	8.98	19.42	6.91	10.42	1.32	1.07	13.15	0.52	4.02
7600	8.66	19.44	6.69	10.30	1.34	1.08	13.07	0.28	4.07
7800	8.35	19.45	6.46	10.08	1.35	1.09	12.83	0.05	4.11
8000	8.04	19.48	6.27	9.92	1.37	1.10	12.68	0.06	4.23

## 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: Vd = 3.37V, Id = 12.00mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10	18.48	21.35	12.14	11.49	1.03	0.37	24.87	0.07	3.16
20	18.50	21.43	12.33	11.95	1.04	0.40	17.55	-0.37	2.79
30	18.48	21.42	12.21	11.99	1.04	0.40	17.95	-0.22	2.82
50	18.46	21.46	12.34	12.29	1.04	0.41	17.81	-1.18	2.72
100	18.45	21.38	12.47	12.06	1.04	0.40	20.17	-0.58	2.59
200	18.44	21.37	12.62	12.24	1.03	0.41	20.00	-0.79	2.63
300	18.41	21.37	12.51	12.20	1.03	0.42	18.97	-0.86	2.73
400	18.37	21.39	12.32	12.11	1.03	0.43	19.29	-0.73	2.69
500	18.29	21.35	12.09	11.78	1.03	0.43	19.64	-0.93	2.68
600	18.22	21.37	11.95	11.77	1.03	0.45	17.76	-0.84	2.73
700	18.13	21.30	11.71	11.43	1.02	0.46	16.85	-0.96	2.66
800	18.04	21.29	11.49	11.37	1.02	0.47	16.79	-1.21	2.72
900	17.95	21.21	11.29	11.09	1.01	0.48	16.83	-0.83	2.76
1000	17.84	21.16	11.07	10.87	1.00	0.49	15.64	-1.32	2.76
1200	17.61	21.05	10.68	10.58	0.99	0.52	16.08	-1.29	2.86
1400	17.35	20.87	10.32	10.24	0.98	0.54	15.97	-1.19	2.91
1600	17.08	20.67	9.97	9.97	0.96	0.56	16.26	-1.50	2.98
1800	16.82	20.61	9.74	10.10	0.95	0.60	16.09	-1.73	3.02
2000	16.55	20.42	9.53	10.03	0.94	0.63	16.51	-1.70	2.99
2200	16.24	20.18	9.29	9.83	0.93	0.65	17.25	-1.24	2.97
2400	15.93	19.93	9.12	9.73	0.92	0.66	17.47	-1.26	2.94
2600	15.66	19.76	8.97	9.78	0.91	0.69	17.80	-1.94	3.03
2800	15.35	19.61	8.84	9.91	0.91	0.72	17.94	-1.60	3.04
3000	15.07	19.45	8.72	9.96	0.91	0.74	19.12	-1.46	3.00
3200	14.72	19.19	8.58	9.88	0.90	0.76	18.53	-0.89	3.07
3400	14.43	19.05	8.52	9.88	0.90	0.78	18.28	-0.96	3.00
3600	14.12	18.88	8.46	10.06	0.91	0.80	18.34	-0.76	3.07
3800	13.84	18.83	8.44	10.31	0.92	0.83	18.01	-0.85	3.08
4000	13.52	18.72	8.35	10.47	0.92	0.85	17.20	-0.04	3.15
4200	13.22	18.58	8.32	10.54	0.93	0.87	16.78	0.18	3.07
4400	12.92	18.44	8.29	10.54	0.93	0.88	16.48	0.25	3.15
4600	12.61	18.49	8.31	10.82	0.96	0.91	15.95	0.22	3.12
4800	12.32	18.46	8.28	10.94	0.97	0.93	15.68	0.35	3.19
5000	12.06	18.39	8.33	10.89	0.98	0.93	16.02	-0.63	3.24
5200	11.73	18.39	8.22	11.05	1.00	0.95	15.21	0.07	3.34
5400	11.40	18.34	8.02	10.98	1.01	0.97	14.72	0.62	3.35
5600	11.09	18.37	7.93	11.10	1.04	0.99	14.54	0.16	3.29
5800	10.81	18.41	7.83	11.15	1.06	1.01	14.39	-0.34	3.36
6000	10.52	18.45	7.62	11.13	1.08	1.02	14.70	-0.45	3.43
6200	10.20	18.50	7.36	11.16	1.10	1.05	14.23	-0.26	3.46
6400	9.87	18.61	7.14	11.05	1.12	1.06	13.78	-0.25	3.53
6600	9.55	18.67	6.95	10.99	1.15	1.08	13.85	-0.64	3.67
6800	9.24	18.81	6.71	10.88	1.18	1.10	13.57	-0.80	3.74
7000	8.92	18.91	6.49	10.70	1.20	1.11	13.50	-0.81	3.85
7200	8.58	19.06	6.25	10.53	1.23	1.13	13.34	-0.94	3.95
7400	8.25	19.22	6.03	10.26	1.26	1.14	13.07	-0.93	4.05
7600	7.93	19.34	5.87	10.05	1.29	1.15	12.99	-1.27	4.12
7800	7.61	19.48	5.68	9.78	1.31	1.16	12.84	-1.32	4.24
8000	7.28	19.66	5.51	9.52	1.35	1.17	12.67	-1.23	4.32



## 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: Vd = 3.46V, Id = 20.00mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10	22.12	24.14	25.79	21.96	1.02	0.36	21.83	7.75	2.90
20	22.12	24.08	24.95	22.43	1.02	0.36	24.63	7.25	2.51
30	22.12	24.12	25.48	21.96	1.03	0.36	23.78	7.51	2.54
50	22.09	24.12	24.94	21.62	1.03	0.37	21.15	5.96	2.46
100	22.08	24.08	24.32	21.45	1.03	0.36	20.48	6.90	2.36
200	22.03	24.10	23.65	20.32	1.03	0.37	20.20	6.59	2.37
300	21.97	24.11	24.11	19.93	1.03	0.38	20.90	6.47	2.39
400	21.90	24.11	24.86	19.43	1.03	0.39	21.57	6.72	2.42
500	21.80	24.09	25.75	18.85	1.03	0.41	20.10	6.30	2.44
600	21.68	24.09	26.23	18.11	1.03	0.42	20.56	6.53	2.49
700	21.55	24.04	26.69	17.70	1.03	0.43	20.46	6.41	2.46
800	21.40	24.03	26.76	17.18	1.03	0.45	20.31	6.12	2.48
900	21.25	23.96	26.60	16.79	1.03	0.47	21.09	6.58	2.54
1000	21.09	23.92	25.94	16.28	1.03	0.48	18.98	5.88	2.47
1200	20.73	23.82	24.35	15.46	1.04	0.52	20.26	6.11	2.64
1400	20.34	23.68	22.54	14.84	1.04	0.55	20.46	6.27	2.65
1600	19.94	23.53	20.87	14.34	1.05	0.58	20.21	5.91	2.81
1800	19.51	23.39	19.52	13.92	1.05	0.61	20.04	5.66	2.81
2000	19.09	23.21	18.48	13.61	1.06	0.64	19.91	5.61	2.81
2200	18.66	23.01	17.46	13.39	1.06	0.66	20.23	6.10	2.80
2400	18.23	22.79	16.60	13.23	1.07	0.68	20.40	6.07	2.80
2600	17.81	22.59	15.86	13.10	1.07	0.70	19.87	5.19	2.89
2800	17.39	22.39	15.24	13.04	1.08	0.73	19.80	5.47	2.87
3000	16.98	22.18	14.72	12.94	1.09	0.74	19.43	5.35	2.89
3200	16.57	21.97	14.21	12.89	1.10	0.76	19.35	5.69	2.92
3400	16.18	21.77	13.84	12.79	1.11	0.78	18.99	5.39	2.87
3600	15.79	21.57	13.49	12.80	1.12	0.79	18.70	5.29	2.94
3800	15.41	21.39	13.20	12.76	1.13	0.81	18.34	4.98	2.93
4000	15.04	21.20	12.89	12.65	1.14	0.82	17.84	5.18	3.00
4200	14.68	21.02	12.67	12.52	1.15	0.83	17.48	4.95	2.98
4400	14.32	20.84	12.40	12.34	1.16	0.84	17.23	4.72	3.05
4600	13.96	20.69	12.20	12.15	1.17	0.85	16.92	4.49	3.04
4800	13.62	20.54	11.97	11.98	1.18	0.85	16.56	4.25	3.13
5000	13.30	20.38	11.73	11.81	1.19	0.86	16.51	3.65	3.17
5200	12.95	20.27	11.49	11.65	1.21	0.87	15.94	3.66	3.26
5400	12.62	20.11	11.12	11.43	1.22	0.88	15.40	3.64	3.25
5600	12.29	20.00	10.76	11.36	1.23	0.89	15.41	3.30	3.25
5800	11.97	19.88	10.41	11.20	1.24	0.90	15.32	2.93	3.31
6000	11.65	19.78	10.00	11.10	1.25	0.91	15.09	2.68	3.38
6200	11.33	19.68	9.57	10.94	1.26	0.92	14.59	2.62	3.41
6400	11.00	19.62	9.17	10.79	1.27	0.94	14.45	2.45	3.49
6600	10.68	19.55	8.78	10.64	1.28	0.95	14.62	2.10	3.61
6800	10.36	19.51	8.40	10.45	1.29	0.97	14.20	1.90	3.70
7000	10.03	19.46	8.06	10.30	1.30	0.98	13.87	1.56	3.83
7200	9.70	19.43	7.71	10.12	1.31	1.00	13.65	1.47	3.89
7400	9.38	19.41	7.40	9.93	1.32	1.01	13.30	1.28	4.03
7600	9.06	19.38	7.14	9.84	1.34	1.02	13.23	1.02	4.08
7800	8.75	19.33	6.88	9.68	1.34	1.04	12.98	0.85	4.16
8000	8.45	19.31	6.68	9.58	1.35	1.05	12.81	0.78	4.27