

## 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 = 5.00V, Id = 15.89mA @ 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	15.43	18.74	18.58	15.46	1.06	0.49	19.17	6.79	5.22
100	15.54	18.83	18.46	15.22	1.06	0.49	18.84	6.58	4.87
150	15.53	18.83	18.47	15.20	1.06	0.49	18.84	6.54	4.88
200	15.52	18.86	18.41	15.17	1.06	0.49	18.86	6.35	4.85
250	15.51	18.83	18.47	15.17	1.06	0.49	19.08	6.51	4.86
300	15.50	18.84	18.42	15.17	1.06	0.49	18.54	5.99	4.80
350	15.49	18.87	18.40	15.21	1.06	0.50	19.16	6.34	4.91
400	15.49	18.88	18.43	15.19	1.07	0.50	19.23	6.43	4.93
450	15.47	18.88	18.44	15.21	1.07	0.50	18.88	6.18	4.95
500	15.46	18.89	18.34	15.19	1.07	0.50	18.37	6.19	4.92
550	15.46	18.91	18.35	15.22	1.07	0.50	18.55	6.22	4.96
600	15.45	18.87	18.27	15.15	1.07	0.50	18.54	6.23	4.87
650	15.44	18.91	18.18	15.15	1.07	0.51	18.35	6.01	4.94
700	15.43	18.89	18.18	15.12	1.07	0.51	18.66	6.22	4.94
750	15.42	18.89	18.14	15.11	1.07	0.51	18.92	6.44	4.91
800	15.41	18.91	18.06	15.14	1.07	0.51	18.92	6.41	4.93
1000	15.36	18.92	17.83	15.01	1.07	0.52	18.65	6.65	4.98
2000	15.09	19.02	16.56	14.60	1.08	0.55	18.80	6.15	5.11
3000	14.76	19.12	15.31	13.90	1.10	0.59	17.94	5.74	5.13
4000	14.46	19.16	15.53	14.91	1.12	0.63	18.86	6.48	5.06
5000	14.17	19.13	15.70	15.11	1.14	0.65	17.85	6.05	5.05
6000	13.77	19.28	13.56	13.82	1.16	0.68	17.36	5.93	5.16
7000	13.46	19.47	12.90	13.07	1.19	0.72	16.99	5.97	5.13
8000	13.38	19.44	15.43	16.36	1.21	0.75	16.44	6.74	5.09
9000	13.39	19.57	16.36	16.62	1.23	0.75	15.49	6.26	5.13
10000	13.33	19.77	14.33	15.34	1.25	0.76	14.66	6.18	5.17
11000	13.10	20.21	11.45	12.60	1.27	0.77	13.86	5.28	5.35
12000	12.84	20.70	9.97	11.19	1.30	0.80	13.05	4.23	5.28
13000	12.85	20.78	12.41	13.21	1.34	0.82	12.22	3.88	5.13
14000	12.76	20.87	14.45	13.91	1.39	0.82	12.04	3.21	5.07
15000	12.41	21.09	13.04	14.27	1.46	0.85	11.15	2.48	5.17
16000	11.93	21.41	12.35	12.69	1.55	0.85	10.89	1.62	5.31
17000	11.31	21.99	10.04	12.58	1.68	0.91	10.95	1.04	5.51
18000	10.50	22.88	8.27	9.73	1.82	0.91	10.35	0.68	5.71
19000	10.00	23.33	8.68	8.34	1.96	0.86	10.69	0.29	5.72
20000	10.14	23.13	10.64	10.28	2.05	0.89	9.42	-0.48	5.78
21000	10.11	22.94	12.03	16.95	2.15	0.98	9.34	-0.97	5.92
22000	8.93	23.66	8.47	12.21	2.28	1.04	9.68	-1.59	6.43
23000	7.93	24.10	7.42	9.15	2.42	1.01	9.30	-1.76	6.55
24000	7.92	23.46	8.49	9.96	2.41	0.99	8.91	-2.27	6.67

## 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 = 4.75V, Id = 11.50mA @ 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	14.62	18.56	15.13	13.20	1.08	0.53	14.94	3.05	5.19
100	14.69	18.45	15.22	12.75	1.07	0.50	14.73	2.74	4.81
150	14.69	18.40	15.17	12.75	1.07	0.50	14.74	2.74	4.82
200	14.68	18.44	15.16	12.74	1.07	0.50	14.65	2.53	4.82
250	14.67	18.46	15.21	12.76	1.07	0.51	14.95	2.69	4.82
300	14.66	18.43	15.19	12.75	1.07	0.50	14.42	2.21	4.84
350	14.65	18.44	15.18	12.77	1.07	0.51	14.99	2.53	4.89
400	14.65	18.47	15.21	12.77	1.07	0.51	15.07	2.68	4.91
450	14.64	18.49	15.23	12.81	1.08	0.51	14.73	2.37	4.91
500	14.63	18.49	15.17	12.78	1.08	0.51	14.30	2.41	4.86
550	14.62	18.49	15.19	12.79	1.08	0.52	14.39	2.42	4.84
600	14.61	18.49	15.13	12.76	1.08	0.52	14.41	2.43	4.87
650	14.60	18.48	15.08	12.75	1.08	0.52	14.25	2.25	4.93
700	14.59	18.49	15.10	12.74	1.08	0.52	14.46	2.49	4.89
750	14.58	18.50	15.08	12.73	1.08	0.52	14.73	2.63	4.95
800	14.57	18.50	15.03	12.77	1.08	0.52	14.82	2.62	4.90
1000	14.53	18.52	14.93	12.69	1.08	0.53	14.52	2.86	4.92
2000	14.28	18.62	14.26	12.51	1.09	0.56	14.70	2.39	5.03
3000	13.98	18.76	13.48	12.08	1.11	0.59	14.12	2.04	5.07
4000	13.74	18.77	13.83	13.02	1.13	0.63	15.37	2.80	5.00
5000	13.49	18.75	14.08	13.28	1.15	0.65	14.91	2.50	5.02
6000	13.11	18.91	12.33	12.34	1.17	0.68	15.03	2.55	5.08
7000	12.84	19.12	11.91	11.82	1.20	0.71	15.59	2.72	5.04
8000	12.82	19.04	14.39	14.80	1.22	0.74	17.33	3.77	5.00
9000	12.83	19.18	14.86	15.08	1.24	0.75	17.98	3.78	5.06
10000	12.73	19.45	12.99	13.75	1.26	0.75	18.12	4.45	5.14
11000	12.45	19.92	10.46	11.46	1.28	0.77	16.48	4.26	5.24
12000	12.19	20.44	9.47	10.26	1.32	0.79	15.96	3.38	5.17
13000	12.24	20.48	12.04	12.14	1.37	0.81	14.41	3.56	5.00
14000	12.12	20.67	13.76	12.84	1.44	0.82	13.21	2.88	4.93
15000	11.74	20.94	12.56	12.97	1.51	0.85	12.25	2.26	5.03
16000	11.22	21.31	11.75	11.57	1.61	0.85	11.92	1.52	5.16
17000	10.58	22.00	9.65	11.42	1.76	0.91	11.65	0.97	5.36
18000	9.76	22.82	8.21	8.87	1.91	0.89	11.30	0.82	5.57
19000	9.25	23.39	8.80	7.66	2.08	0.84	11.42	0.30	5.59
20000	9.40	23.20	10.73	9.35	2.18	0.88	9.85	-0.45	5.59
21000	9.36	23.02	11.51	14.61	2.30	0.98	9.82	-0.98	5.67
22000	8.19	23.71	8.18	11.18	2.42	1.04	10.16	-1.50	6.21
23000	7.22	24.35	7.32	8.42	2.62	0.98	9.77	-1.60	6.40
24000	7.25	23.63	8.42	9.06	2.58	0.97	9.25	-2.37	6.40

## 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 = 5.25V, Id = 20.92mA @ 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	15.91	19.07	20.95	17.50	1.06	0.49	22.49	9.78	5.29
100	16.02	19.11	21.31	17.12	1.06	0.48	22.27	9.53	4.94
150	16.01	19.06	21.19	17.10	1.06	0.48	22.38	9.46	4.95
200	15.99	19.11	21.22	17.06	1.06	0.48	22.35	9.30	4.97
250	15.99	19.14	21.16	17.11	1.06	0.49	22.56	9.42	4.93
300	15.98	19.10	21.16	17.08	1.06	0.48	22.10	8.93	5.02
350	15.97	19.09	21.12	17.07	1.06	0.48	22.91	9.26	4.97
400	15.95	19.13	21.12	17.06	1.06	0.49	22.87	9.36	5.03
450	15.94	19.17	21.08	17.11	1.06	0.50	22.53	9.11	5.05
500	15.93	19.14	20.94	17.06	1.06	0.49	21.90	9.10	5.01
550	15.93	19.14	20.90	17.08	1.06	0.49	22.01	9.15	5.02
600	15.91	19.14	20.76	17.00	1.06	0.50	22.04	9.15	5.00
650	15.90	19.17	20.62	16.96	1.06	0.50	21.84	8.95	5.08
700	15.89	19.15	20.58	16.91	1.06	0.50	22.20	9.15	5.06
750	15.88	19.16	20.48	16.89	1.06	0.50	22.32	9.38	5.04
800	15.87	19.16	20.32	16.92	1.06	0.50	22.35	9.35	5.02
1000	15.82	19.17	19.82	16.71	1.06	0.51	22.06	9.58	5.06
2000	15.52	19.22	17.55	15.88	1.07	0.55	22.12	9.09	5.15
3000	15.14	19.29	15.73	14.81	1.09	0.59	20.91	8.64	5.22
4000	14.76	19.27	15.51	15.51	1.10	0.63	21.25	9.27	5.16
5000	14.41	19.21	15.45	15.48	1.12	0.65	19.41	8.78	5.16
6000	13.95	19.30	13.25	13.95	1.14	0.69	18.34	8.49	5.25
7000	13.57	19.48	12.50	12.96	1.17	0.72	17.34	8.26	5.22
8000	13.43	19.39	14.75	15.58	1.19	0.75	16.34	8.10	5.22
9000	13.40	19.52	15.66	15.59	1.21	0.75	15.13	7.24	5.23
10000	13.29	19.69	13.79	14.58	1.23	0.75	14.14	6.48	5.38
11000	12.98	20.15	11.10	11.92	1.26	0.77	13.33	5.51	5.48
12000	12.65	20.64	9.75	10.66	1.29	0.80	12.47	4.58	5.45
13000	12.60	20.69	12.11	12.22	1.34	0.82	11.62	4.13	5.30
14000	12.48	20.81	14.16	12.82	1.40	0.82	11.49	3.33	5.21
15000	12.11	21.03	12.89	13.16	1.48	0.85	10.61	2.62	5.36
16000	11.60	21.39	12.23	11.81	1.57	0.85	10.29	1.67	5.56
17000	10.99	22.03	10.03	11.81	1.72	0.90	10.31	1.05	5.76
18000	10.18	22.90	8.33	9.23	1.87	0.90	9.57	0.60	5.97
19000	9.66	23.52	8.76	7.92	2.04	0.85	9.98	0.10	5.98
20000	9.83	23.29	10.81	9.74	2.13	0.88	8.91	-0.56	6.04
21000	9.85	23.06	12.23	15.72	2.23	0.97	8.75	-1.16	6.20
22000	8.71	23.82	8.56	11.74	2.37	1.03	9.01	-1.81	6.92
23000	7.72	24.34	7.48	8.84	2.53	0.99	8.63	-1.94	6.92
24000	7.72	23.74	8.57	9.49	2.51	0.98	8.32	-2.52	6.90

## 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 = 5.00V, Id = 11.94mA @ 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	15.11	18.70	16.74	14.13	1.07	0.51	14.90	2.99	4.24
100	15.16	18.65	16.10	13.47	1.06	0.49	14.64	2.74	3.86
150	15.16	18.72	16.07	13.45	1.07	0.49	14.62	2.66	3.89
200	15.16	18.65	16.15	13.55	1.06	0.49	14.56	2.56	3.87
250	15.17	18.67	16.26	13.66	1.07	0.49	14.80	2.67	3.86
300	15.16	18.66	16.25	13.60	1.06	0.49	14.20	2.20	3.79
350	15.15	18.69	16.15	13.52	1.07	0.49	14.83	2.53	3.86
400	15.14	18.69	16.10	13.52	1.07	0.49	14.92	2.63	3.93
450	15.14	18.66	16.21	13.61	1.07	0.49	14.58	2.41	3.94
500	15.14	18.67	16.19	13.65	1.07	0.49	14.20	2.45	3.95
550	15.13	18.68	16.18	13.64	1.07	0.49	14.29	2.45	3.88
600	15.12	18.69	15.98	13.47	1.07	0.49	14.31	2.45	3.87
650	15.11	18.67	15.89	13.40	1.07	0.49	14.13	2.25	3.95
700	15.11	18.67	16.01	13.47	1.07	0.50	14.36	2.45	3.95
750	15.11	18.67	16.20	13.62	1.07	0.50	14.68	2.69	3.92
800	15.11	18.68	16.27	13.77	1.07	0.50	14.77	2.69	3.90
1000	15.06	18.70	15.75	13.34	1.07	0.50	14.49	2.90	3.92
2000	14.89	18.72	15.96	13.86	1.08	0.53	14.74	2.57	3.99
3000	14.55	18.88	14.10	12.48	1.09	0.56	13.93	2.12	4.06
4000	14.32	18.87	14.67	13.80	1.11	0.60	15.24	2.81	3.94
5000	14.14	18.79	16.85	15.39	1.12	0.63	14.74	2.55	3.87
6000	13.69	19.04	11.91	11.58	1.14	0.63	14.67	2.45	4.08
7000	13.48	19.08	13.13	12.55	1.16	0.67	15.32	2.88	3.90
8000	13.59	19.05	17.98	17.75	1.18	0.71	16.57	3.71	3.84
9000	13.49	19.11	14.77	15.41	1.18	0.71	17.23	3.82	3.94
10000	13.49	19.38	15.20	14.10	1.20	0.71	18.69	4.48	3.94
11000	13.55	19.63	13.44	14.58	1.21	0.73	19.31	5.10	4.05
12000	13.04	20.38	8.57	9.47	1.21	0.73	19.06	3.99	4.07
13000	13.37	20.29	12.32	12.57	1.24	0.77	19.03	4.91	3.77
14000	13.38	20.34	14.60	12.42	1.27	0.75	15.99	4.33	3.79
15000	13.11	20.54	12.05	12.91	1.30	0.79	14.62	3.97	3.84
16000	12.91	20.73	15.02	12.67	1.36	0.78	13.92	3.32	3.85
17000	12.33	21.37	10.59	12.57	1.46	0.86	13.10	2.48	4.03
18000	11.54	22.32	7.45	9.19	1.54	0.87	12.90	2.54	4.21
19000	10.80	23.36	7.06	6.50	1.65	0.78	13.49	2.03	4.34
20000	11.20	23.17	10.12	8.69	1.78	0.83	10.91	1.14	4.22
21000	11.52	23.02	12.77	12.17	1.86	0.89	10.24	0.49	4.31
22000	9.68	24.77	5.91	7.87	1.85	1.02	11.00	-0.43	5.15
23000	9.19	25.11	6.20	6.36	2.01	0.89	10.84	-0.07	4.84
24000	10.15	23.61	8.96	12.42	2.05	1.01	9.60	-0.68	4.70

## 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 = 4.75V, Id = 7.68mA @ 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	13.28	18.09	11.86	10.43	1.10	0.55	12.23	-3.07	4.23
100	13.27	17.93	11.52	9.86	1.09	0.52	11.81	-3.28	3.96
150	13.27	17.93	11.51	9.84	1.09	0.52	12.02	-3.31	3.96
200	13.28	17.91	11.56	9.90	1.09	0.52	11.93	-3.43	3.92
250	13.29	17.93	11.63	9.98	1.09	0.52	12.27	-3.32	3.89
300	13.27	17.90	11.62	9.93	1.09	0.52	12.51	-3.72	4.00
350	13.27	17.89	11.57	9.89	1.09	0.52	12.57	-3.51	3.98
400	13.27	17.91	11.56	9.89	1.09	0.52	12.45	-3.31	4.03
450	13.27	17.91	11.63	9.96	1.09	0.52	12.36	-3.54	3.97
500	13.27	17.90	11.62	9.98	1.09	0.52	11.83	-3.48	4.00
550	13.26	17.91	11.61	9.97	1.09	0.52	11.76	-3.50	3.92
600	13.25	17.93	11.50	9.87	1.09	0.52	11.76	-3.48	3.96
650	13.23	17.93	11.44	9.83	1.09	0.52	11.76	-3.72	4.04
700	13.24	17.92	11.54	9.88	1.09	0.52	11.72	-3.50	4.06
750	13.25	17.93	11.66	9.98	1.09	0.52	11.66	-3.31	3.97
800	13.25	17.91	11.71	10.08	1.09	0.53	11.89	-3.33	4.01
1000	13.21	17.94	11.45	9.81	1.09	0.52	11.30	-3.16	3.98
2000	13.09	17.97	11.81	10.26	1.11	0.55	11.93	-3.44	4.08
3000	12.79	18.19	10.85	9.53	1.12	0.57	11.77	-3.87	4.10
4000	12.71	18.15	11.52	10.58	1.14	0.61	11.68	-3.27	3.97
5000	12.64	18.02	13.04	11.89	1.15	0.63	11.50	-3.46	3.93
6000	12.17	18.43	9.70	9.18	1.16	0.63	11.54	-3.76	4.09
7000	12.12	18.43	10.98	10.13	1.19	0.66	11.41	-3.28	3.92
8000	12.38	18.28	14.84	14.14	1.20	0.70	11.55	-2.42	3.87
9000	12.28	18.47	12.31	12.45	1.21	0.70	11.83	-2.29	3.94
10000	12.27	18.74	12.68	11.50	1.22	0.70	12.21	-1.53	3.92
11000	12.30	19.09	10.58	12.45	1.24	0.75	13.93	-0.61	4.06
12000	11.78	19.85	7.74	8.09	1.24	0.71	12.73	-1.48	4.03
13000	12.27	19.70	11.75	10.77	1.29	0.74	14.94	0.82	3.73
14000	12.24	19.95	12.24	11.34	1.33	0.76	18.17	1.10	3.73
15000	11.99	20.26	11.48	11.15	1.38	0.78	16.21	1.59	3.82
16000	11.79	20.54	13.18	11.35	1.45	0.79	14.42	1.27	3.73
17000	11.19	21.30	9.78	11.09	1.57	0.87	12.65	1.14	3.97
18000	10.40	22.22	7.49	7.92	1.64	0.84	12.31	0.98	4.12
19000	9.63	23.35	7.07	5.63	1.74	0.74	12.98	0.33	4.22
20000	10.16	23.12	10.62	7.80	1.92	0.80	10.24	0.21	4.13
21000	10.41	23.03	11.49	10.47	1.99	0.89	9.60	-0.13	4.24
22000	8.49	24.80	5.48	6.67	1.93	0.98	10.21	-1.16	5.13
23000	8.13	25.03	6.14	5.44	2.09	0.83	9.94	-1.01	4.82
24000	9.22	23.65	8.77	10.32	2.19	0.98	8.99	-1.45	4.57

## 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 = 5.25V, Id = 16.17mA @ 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	15.78	18.99	19.63	16.22	1.06	0.49	19.08	6.86	4.33
100	15.89	19.03	19.28	15.81	1.06	0.48	19.03	6.58	3.90
150	15.88	19.02	19.21	15.78	1.06	0.47	19.08	6.52	3.91
200	15.88	19.03	19.35	15.88	1.06	0.48	19.07	6.39	3.91
250	15.88	19.04	19.54	16.02	1.06	0.48	19.24	6.51	3.89
300	15.87	19.04	19.46	15.93	1.06	0.48	18.66	6.00	3.98
350	15.86	19.04	19.27	15.83	1.06	0.48	19.40	6.34	3.95
400	15.86	19.02	19.24	15.78	1.06	0.48	19.47	6.46	3.96
450	15.85	19.03	19.42	15.95	1.06	0.48	19.11	6.22	3.97
500	15.85	19.04	19.40	16.01	1.06	0.48	18.64	6.25	3.96
550	15.84	19.04	19.33	15.97	1.06	0.48	18.80	6.25	3.96
600	15.83	19.04	18.99	15.74	1.06	0.48	18.81	6.25	3.96
650	15.82	19.04	18.86	15.65	1.06	0.48	18.64	6.05	4.00
700	15.82	19.03	19.05	15.73	1.06	0.48	18.93	6.26	3.98
750	15.82	19.04	19.33	15.94	1.06	0.49	19.24	6.50	3.91
800	15.81	19.04	19.42	16.12	1.06	0.49	19.30	6.50	3.93
1000	15.77	19.04	18.57	15.54	1.06	0.49	18.96	6.71	3.95
2000	15.57	19.09	18.53	16.08	1.07	0.52	19.35	6.34	4.05
3000	15.23	19.22	16.02	14.20	1.08	0.55	18.49	5.85	4.13
4000	14.96	19.24	16.49	15.72	1.10	0.60	19.82	6.54	4.00
5000	14.72	19.16	18.99	17.57	1.12	0.63	19.16	6.25	3.97
6000	14.31	19.37	13.17	12.86	1.13	0.63	18.85	6.05	4.14
7000	14.04	19.48	14.30	13.85	1.15	0.68	19.28	6.38	3.98
8000	14.12	19.42	19.36	20.10	1.17	0.71	18.99	7.15	3.95
9000	14.00	19.59	16.19	17.16	1.18	0.72	18.41	7.03	3.98
10000	14.05	19.78	16.54	15.98	1.19	0.72	17.68	7.50	3.98
11000	14.15	20.01	15.76	16.19	1.20	0.73	16.51	7.26	4.14
12000	13.72	20.67	9.04	10.47	1.20	0.75	16.01	6.06	4.15
13000	14.00	20.62	12.40	14.09	1.22	0.78	14.98	6.08	3.87
14000	14.10	20.58	15.83	13.64	1.23	0.75	14.20	5.20	3.88
15000	13.85	20.75	12.10	14.67	1.25	0.80	13.20	4.60	3.91
16000	13.70	20.84	15.68	14.19	1.30	0.78	12.67	3.79	3.92
17000	13.20	21.34	11.10	14.23	1.37	0.85	12.48	2.92	4.15
18000	12.43	22.31	7.39	10.21	1.45	0.88	12.09	2.71	4.36
19000	11.76	23.25	6.93	7.17	1.54	0.80	12.55	2.31	4.48
20000	12.13	23.09	9.58	9.66	1.64	0.86	10.65	1.39	4.34
21000	12.52	22.86	13.47	13.97	1.70	0.88	9.94	0.55	4.53
22000	10.70	24.59	6.14	8.43	1.67	1.04	10.81	-0.36	5.47
23000	10.20	24.88	6.13	6.97	1.82	0.93	10.59	0.01	4.97
24000	11.10	23.42	8.92	13.84	1.84	1.03	9.59	-0.72	4.99

## 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 = 5.00V, Id = 19.80mA @ 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	15.59	18.76	19.32	16.43	1.06	0.48	21.45	9.39	5.90
100	15.70	18.90	20.19	16.30	1.06	0.49	21.44	9.03	5.70
150	15.69	18.96	20.18	16.40	1.06	0.50	21.56	8.98	5.71
200	15.66	18.95	19.96	16.25	1.06	0.50	21.60	8.77	5.70
250	15.65	18.89	19.80	16.15	1.06	0.49	21.77	8.93	5.70
300	15.64	18.95	19.73	16.10	1.06	0.50	21.29	8.42	5.76
350	15.63	18.98	19.72	16.17	1.07	0.50	22.00	8.75	5.75
400	15.62	18.97	19.75	16.18	1.07	0.50	22.08	8.88	5.80
450	15.60	18.94	19.69	16.16	1.06	0.50	21.73	8.62	5.78
500	15.59	18.99	19.49	16.09	1.07	0.51	21.10	8.59	5.84
550	15.58	18.98	19.45	16.09	1.07	0.51	21.19	8.61	5.80
600	15.57	18.99	19.33	16.04	1.07	0.51	21.23	8.62	5.79
650	15.55	18.99	19.22	16.02	1.07	0.51	21.01	8.45	5.80
700	15.54	19.00	19.12	15.94	1.07	0.51	21.35	8.64	5.83
750	15.52	19.02	18.92	15.83	1.07	0.52	21.55	8.85	5.88
800	15.51	19.00	18.68	15.81	1.07	0.52	21.64	8.81	5.80
1000	15.45	19.02	18.42	15.83	1.07	0.53	21.28	9.06	5.88
2000	15.10	19.07	16.06	14.74	1.08	0.57	21.51	8.52	5.97
3000	14.68	19.09	14.72	13.98	1.09	0.60	20.52	8.13	6.04
4000	14.22	19.09	13.68	14.35	1.11	0.66	20.69	8.69	6.01
5000	13.77	19.01	13.29	13.65	1.13	0.67	18.61	8.07	5.98
6000	13.27	19.09	12.47	12.96	1.16	0.71	17.44	7.77	6.11
7000	12.74	19.27	10.93	11.87	1.19	0.75	16.06	7.17	6.15
8000	12.59	19.24	13.22	13.57	1.23	0.77	14.93	6.66	6.12
9000	12.40	19.27	14.39	13.57	1.26	0.77	13.69	5.67	6.22
10000	12.11	19.62	11.76	13.33	1.31	0.80	12.83	4.90	6.35
11000	11.53	20.13	9.78	9.96	1.36	0.79	12.05	3.71	6.44
12000	11.16	20.63	9.99	10.39	1.47	0.83	11.33	2.96	6.47
13000	10.91	20.85	12.13	11.05	1.56	0.85	10.62	2.47	6.35
14000	10.66	20.96	14.12	11.75	1.66	0.85	10.64	1.66	6.30
15000	10.12	21.33	12.32	12.06	1.80	0.89	9.89	1.10	6.54
16000	9.51	21.79	12.21	10.83	1.97	0.88	9.66	0.31	6.67
17000	8.74	22.41	9.75	11.22	2.18	0.94	9.79	-0.16	6.99
18000	7.91	23.16	9.44	8.67	2.42	0.89	8.96	-0.59	7.18
19000	7.62	23.33	11.78	8.02	2.58	0.84	9.38	-1.03	7.12
20000	7.51	23.16	10.78	11.33	2.72	0.96	8.67	-1.41	7.41
21000	7.25	22.98	12.55	14.92	2.89	0.99	8.47	-1.98	7.59
22000	6.29	23.32	11.23	10.70	3.09	0.96	8.63	-2.40	8.01
23000	5.33	23.81	7.63	10.32	3.23	1.05	8.32	-2.42	8.50
24000	5.01	23.56	9.52	9.39	3.36	0.97	7.93	-3.24	8.51

## 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 = 4.75V, Id = 14.79mA @ 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	15.01	18.62	16.78	14.38	1.07	0.51	18.36	6.16	5.83
100	15.10	18.61	17.15	14.21	1.07	0.50	18.09	5.90	5.60
150	15.09	18.59	17.24	14.29	1.07	0.50	18.11	5.86	5.62
200	15.07	18.64	17.08	14.18	1.07	0.50	18.08	5.67	5.59
250	15.06	18.67	16.99	14.12	1.07	0.51	18.41	5.81	5.63
300	15.05	18.65	16.94	14.06	1.07	0.51	17.74	5.33	5.65
350	15.03	18.64	16.95	14.13	1.07	0.51	18.48	5.67	5.63
400	15.03	18.66	17.01	14.15	1.07	0.51	18.60	5.76	5.72
450	15.02	18.67	16.99	14.17	1.07	0.51	18.13	5.51	5.69
500	15.00	18.69	16.86	14.11	1.07	0.52	17.61	5.52	5.67
550	14.99	18.67	16.87	14.12	1.07	0.52	17.78	5.53	5.73
600	14.98	18.68	16.80	14.08	1.07	0.52	17.78	5.54	5.68
650	14.97	18.69	16.74	14.09	1.08	0.52	17.57	5.33	5.70
700	14.95	18.72	16.69	14.03	1.08	0.52	17.82	5.54	5.72
750	14.94	18.68	16.57	13.96	1.08	0.52	18.01	5.73	5.73
800	14.92	18.72	16.46	13.95	1.08	0.53	18.15	5.69	5.76
1000	14.88	18.74	16.44	14.01	1.08	0.53	17.80	5.91	5.75
2000	14.58	18.85	15.20	13.48	1.09	0.57	17.85	5.39	5.86
3000	14.25	18.92	14.41	13.19	1.11	0.60	17.09	5.09	5.94
4000	13.91	18.97	13.85	13.87	1.13	0.65	17.98	5.71	5.90
5000	13.55	18.97	13.66	13.48	1.15	0.67	16.82	5.23	5.91
6000	13.16	19.09	12.86	13.23	1.18	0.71	16.38	5.18	6.02
7000	12.74	19.31	11.31	12.14	1.21	0.74	15.74	5.12	6.01
8000	12.67	19.29	13.74	14.41	1.24	0.77	15.10	5.65	5.94
9000	12.56	19.34	14.88	14.74	1.27	0.77	14.05	4.87	6.04
10000	12.34	19.73	12.12	14.28	1.31	0.80	13.38	4.61	6.16
11000	11.88	20.17	9.89	10.56	1.34	0.79	12.60	3.61	6.25
12000	11.57	20.63	10.10	11.08	1.43	0.83	11.88	2.70	6.25
13000	11.37	20.79	12.15	11.93	1.51	0.85	11.19	2.36	6.12
14000	11.13	21.00	14.12	12.69	1.61	0.86	11.15	1.71	6.06
15000	10.59	21.28	12.26	12.96	1.73	0.89	10.45	1.07	6.24
16000	9.97	21.67	12.10	11.57	1.87	0.89	10.26	0.35	6.33
17000	9.18	22.29	9.64	11.87	2.07	0.95	10.40	-0.07	6.62
18000	8.33	22.97	9.27	9.09	2.29	0.90	9.73	-0.37	6.88
19000	8.04	23.02	11.53	8.45	2.43	0.85	10.04	-0.81	6.76
20000	7.87	23.01	10.58	11.97	2.59	0.97	9.20	-1.33	6.99
21000	7.56	22.81	12.33	15.88	2.75	1.00	9.07	-1.81	7.20
22000	6.58	23.17	11.14	11.29	2.98	0.97	9.30	-2.18	7.43
23000	5.58	23.60	7.53	10.79	3.08	1.06	8.93	-2.19	7.95
24000	5.23	23.37	9.41	9.80	3.24	0.99	8.47	-3.01	7.92



## 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 = 5.25V, Id = 24.45mA @ 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	15.92	19.20	21.83	18.03	1.07	0.51	24.64	11.47	6.02
100	16.01	19.11	22.39	17.78	1.06	0.49	24.00	11.25	5.80
150	16.00	19.09	22.31	17.82	1.06	0.49	24.14	11.22	5.82
200	15.98	19.13	22.10	17.65	1.06	0.49	24.13	11.01	5.82
250	15.97	19.16	21.84	17.52	1.06	0.50	24.57	11.11	5.82
300	15.95	19.13	21.70	17.46	1.06	0.49	24.05	10.62	5.82
350	15.94	19.14	21.69	17.50	1.06	0.50	24.76	10.97	5.83
400	15.93	19.13	21.63	17.51	1.06	0.50	24.84	11.08	5.90
450	15.91	19.15	21.49	17.48	1.06	0.50	24.60	10.81	5.89
500	15.90	19.15	21.17	17.37	1.06	0.50	23.71	10.82	5.83
550	15.88	19.15	21.06	17.35	1.06	0.50	23.88	10.85	5.84
600	15.87	19.17	20.83	17.27	1.06	0.51	23.97	10.85	5.89
650	15.85	19.15	20.65	17.21	1.06	0.51	23.77	10.63	6.02
700	15.84	19.16	20.45	17.10	1.06	0.51	24.24	10.83	5.87
750	15.82	19.16	20.15	16.94	1.06	0.51	24.34	11.05	5.90
800	15.80	19.16	19.78	16.90	1.06	0.51	24.32	11.02	5.90
1000	15.74	19.17	19.16	16.84	1.06	0.52	24.05	11.27	5.96
2000	15.32	19.14	15.78	15.01	1.06	0.56	25.17	10.75	6.09
3000	14.80	19.08	14.05	13.77	1.07	0.60	23.94	10.31	6.18
4000	14.23	19.02	12.78	13.73	1.09	0.66	22.36	10.56	6.14
5000	13.68	18.88	12.30	12.83	1.11	0.68	19.26	9.54	6.16
6000	13.08	18.92	11.57	11.95	1.14	0.71	17.51	8.58	6.30
7000	12.45	19.06	10.20	10.96	1.17	0.75	15.79	7.39	6.32
8000	12.24	19.00	12.30	12.19	1.21	0.77	14.51	6.35	6.33
9000	11.97	19.04	13.24	11.99	1.26	0.76	13.20	5.29	6.44
10000	11.58	19.40	10.99	11.84	1.31	0.80	12.30	4.29	6.60
11000	10.89	19.96	9.26	8.96	1.37	0.78	11.60	3.11	6.75
12000	10.44	20.50	9.58	9.31	1.50	0.82	10.90	2.35	6.76
13000	10.16	20.69	11.89	9.91	1.61	0.84	10.22	1.99	6.67
14000	9.88	20.89	13.64	10.45	1.74	0.84	10.26	1.22	6.65
15000	9.32	21.32	11.94	10.76	1.90	0.88	9.52	0.65	6.95
16000	8.69	21.81	11.98	9.73	2.09	0.87	9.29	-0.13	7.12
17000	7.92	22.46	9.52	10.08	2.33	0.93	9.44	-0.48	7.49
18000	7.09	23.23	9.46	7.95	2.60	0.87	8.50	-0.91	7.74
19000	6.80	23.45	12.13	7.34	2.78	0.81	9.01	-1.36	7.76
20000	6.72	23.37	10.73	10.08	2.95	0.94	8.38	-1.55	8.11
21000	6.53	23.13	12.34	13.16	3.12	0.98	8.16	-2.24	8.34
22000	5.59	23.52	11.18	9.71	3.34	0.94	8.26	-2.58	8.76
23000	4.68	24.12	7.63	9.40	3.52	1.02	8.03	-2.83	9.24
24000	4.41	23.80	9.49	8.78	3.63	0.96	7.68	-3.48	9.33