

## 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: Vdd = 5V, Idd = 160mA @ 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)
50	18.91	89.04	7.67	24.81	1326.15	1.17	31.83	20.97	7.41
100	17.19	79.82	11.77	26.94	630.52	1.06	31.84	20.89	6.10
500	15.79	67.89	19.81	28.57	198.98	1.01	34.24	20.69	5.04
1000	15.49	62.32	18.33	23.33	107.66	1.01	32.59	20.72	5.01
2000	15.30	56.33	15.05	18.62	53.80	1.02	31.06	20.46	4.90
3000	15.17	52.88	13.20	18.69	36.08	1.03	28.96	20.45	4.94
4000	15.04	50.29	12.25	20.32	26.96	1.05	27.56	20.37	4.71
5000	14.88	47.85	11.88	22.78	20.70	1.06	28.73	20.48	4.49
6000	14.84	45.85	13.34	21.73	16.83	1.04	27.34	20.88	3.92
7000	14.87	44.11	17.40	15.92	13.86	0.99	26.85	20.63	3.59
8000	14.91	42.58	18.55	12.88	11.32	0.96	28.42	21.09	3.61
9000	15.16	41.41	15.16	14.38	9.59	0.99	28.09	20.68	3.65
10000	15.55	40.56	13.73	23.75	8.50	1.04	27.43	20.02	3.49
11000	15.70	39.89	13.85	23.15	7.76	1.03	26.49	20.06	3.31
12000	15.71	39.10	14.42	18.31	7.03	1.02	26.11	19.98	3.27
13000	15.80	38.12	14.68	18.90	6.25	1.02	26.03	20.42	3.38
14000	15.90	37.05	15.20	21.85	5.53	1.02	25.91	20.60	3.40
15000	15.85	36.01	15.95	19.57	4.95	1.01	25.29	20.53	4.35
16000	15.55	35.30	13.77	13.96	4.52	0.99	24.06	20.38	3.71
17000	15.24	34.76	11.08	12.01	4.13	1.00	25.56	20.25	4.03
18000	15.31	33.99	10.37	13.83	3.76	1.04	25.26	19.90	4.33
19000	15.67	33.09	11.84	17.97	3.46	1.04	25.62	19.93	4.37
20000	15.95	32.44	15.44	14.87	3.20	0.98	26.27	19.69	4.32
21000	16.18	31.91	17.99	13.18	2.94	0.94	26.22	19.68	4.46
22000	16.61	31.13	17.71	15.09	2.61	0.96	25.97	19.53	4.66
23000	16.99	30.52	16.60	15.02	2.33	0.96	25.14	18.05	4.76
24000	17.25	29.97	17.07	14.04	2.13	0.94	24.42	18.19	4.91
25000	17.39	29.47	15.26	15.43	1.99	0.95	24.18	18.36	5.11
26000	16.96	29.53	11.12	12.17	1.91	0.98	22.68	17.11	5.52
27000	16.52	29.64	10.40	10.35	1.89	0.98	23.01	17.59	5.90
28000	16.74	29.19	11.71	11.73	1.91	0.96	23.68	18.22	6.24
29000	17.17	28.61	17.61	19.79	1.94	0.94	23.40	18.23	6.32
30000	17.18	28.61	23.78	14.90	1.92	0.90	21.87	18.19	6.47
32000	17.83	28.23	13.22	19.94	1.70	0.96	22.04	18.17	6.95
34000	18.37	28.09	12.37	10.53	1.41	0.90	21.71	17.47	7.43
36000	17.81	28.96	15.61	7.43	1.56	0.77	20.09	17.70	7.61
38000	17.18	29.66	21.97	11.87	2.07	0.89	19.53	18.75	8.02
40000	17.11	30.27	12.16	13.42	2.19	0.95	18.81	18.37	8.99
42000	17.60	29.92	17.83	10.00	1.91	0.87	19.65	16.81	10.03
44000	15.49	32.74	15.90	6.48	2.85	0.77	--	--	10.45
46000	15.49	35.53	26.62	14.86	4.91	0.96	--	--	9.91
48000	12.67	33.86	10.01	10.56	4.84	0.98	--	--	11.63
50000	11.75	32.33	23.56	10.28	4.87	0.90	--	--	12.59

## 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: Vdd = 5V, Idd = 150mA @ 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)
50	18.63	82.66	7.66	25.41	657.02	1.17	30.19	21.13	6.87
100	16.93	82.57	11.77	27.79	891.98	1.07	30.38	21.03	5.75
500	15.52	68.62	19.70	29.14	223.24	1.01	32.30	20.84	4.83
1000	15.22	63.40	18.23	23.20	125.70	1.01	32.55	20.88	4.87
2000	15.03	57.12	14.90	18.38	60.66	1.02	32.62	20.63	4.81
3000	14.90	53.44	12.97	18.32	39.54	1.04	30.54	20.61	4.85
4000	14.76	50.68	11.98	19.83	28.97	1.05	28.86	20.55	4.62
5000	14.61	48.08	11.63	22.11	21.82	1.06	30.11	20.62	4.29
6000	14.58	45.93	13.03	21.12	17.42	1.04	27.75	21.07	3.76
7000	14.62	44.11	16.90	15.64	14.21	0.99	27.28	20.75	3.44
8000	14.65	42.61	18.07	12.72	11.66	0.96	27.12	21.13	3.47
9000	14.88	41.46	14.88	14.16	9.92	0.99	29.03	20.75	3.40
10000	15.26	40.62	13.55	22.69	8.82	1.04	26.29	20.14	3.33
11000	15.42	39.93	13.75	23.55	8.04	1.03	25.46	20.18	3.12
12000	15.43	39.13	14.29	18.32	7.28	1.02	24.98	20.03	3.12
13000	15.52	38.16	14.49	18.70	6.46	1.02	24.91	20.47	3.20
14000	15.92	37.05	14.61	22.04	5.49	1.02	24.75	20.66	3.29
15000	16.00	35.96	15.15	21.20	4.83	1.01	24.40	20.16	4.24
16000	15.68	35.21	13.22	14.88	4.42	1.00	23.46	19.70	3.62
17000	15.38	34.64	10.69	12.64	4.01	1.02	24.40	19.76	3.94
18000	15.42	33.87	10.09	14.46	3.66	1.06	24.32	19.34	4.19
19000	15.75	32.97	11.61	19.42	3.39	1.04	24.46	19.21	4.28
20000	16.07	32.31	15.18	16.15	3.14	0.98	24.70	18.98	4.23
21000	16.26	31.79	17.72	14.14	2.90	0.95	24.64	18.75	4.41
22000	16.57	31.07	17.30	16.18	2.62	0.97	24.35	18.60	4.57
23000	16.92	30.49	16.18	16.08	2.35	0.97	23.91	17.59	4.62
24000	17.21	29.96	16.72	14.77	2.14	0.95	23.22	17.81	4.75
25000	17.42	29.45	14.54	16.39	1.98	0.96	22.86	17.88	4.82
26000	17.07	29.47	10.79	12.87	1.89	0.99	22.00	16.35	5.06
27000	16.70	29.55	10.49	10.57	1.85	0.98	22.08	16.72	5.30
28000	16.92	29.12	12.02	11.34	1.87	0.94	22.28	17.39	5.47
29000	17.47	28.52	17.73	18.86	1.87	0.93	21.97	17.36	5.54
30000	17.49	28.48	24.47	16.28	1.86	0.91	21.33	17.09	5.74
32000	17.86	28.29	12.65	21.03	1.71	0.96	21.13	17.23	6.40
34000	18.83	28.26	11.71	11.55	1.38	0.93	23.95	17.00	6.76
36000	18.21	29.22	16.34	7.68	1.57	0.77	20.42	16.37	7.07
38000	17.63	29.88	22.31	12.51	2.04	0.89	20.53	17.65	7.29
40000	17.33	30.39	11.27	13.41	2.15	0.95	21.15	17.23	7.96
42000	18.55	30.15	16.45	11.64	1.82	0.90	29.72	15.51	8.73
44000	16.36	33.12	16.89	6.94	2.79	0.79	---	---	9.40
46000	16.38	36.31	26.12	14.37	4.83	0.95	---	---	9.49
48000	14.27	36.09	9.35	10.59	5.11	1.00	---	---	11.69
50000	14.42	32.95	39.03	10.63	3.91	0.90	---	---	12.21

## 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: Vdd = 5V, Idd = 170mA @ 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)
50	19.13	94.96	7.70	24.51	2559.19	1.17	38.14	20.87	7.31
100	17.42	80.30	11.79	26.50	649.01	1.06	37.69	20.78	6.00
500	16.02	66.94	19.81	28.14	173.68	1.01	33.81	20.61	4.98
1000	15.72	61.79	18.33	23.33	98.64	1.01	30.95	20.64	4.93
2000	15.55	55.63	15.17	18.75	48.29	1.02	29.90	20.37	4.87
3000	15.44	52.32	13.43	18.91	32.90	1.03	28.93	20.35	4.88
4000	15.32	49.86	12.54	20.64	24.96	1.05	27.82	20.28	4.70
5000	15.16	47.60	12.18	23.33	19.58	1.06	29.51	20.40	4.39
6000	15.12	45.73	13.72	22.22	16.15	1.04	28.81	20.74	3.87
7000	15.13	44.07	17.98	16.14	13.44	0.99	28.82	20.53	3.58
8000	15.17	42.59	19.06	13.02	11.04	0.96	29.67	21.01	3.56
9000	15.44	41.39	15.48	14.49	9.30	0.99	29.95	20.62	3.54
10000	15.84	40.53	13.93	24.20	8.22	1.04	29.06	19.95	3.49
11000	16.00	39.88	13.97	22.79	7.50	1.03	30.33	19.99	3.28
12000	16.03	39.08	14.54	18.07	6.77	1.02	34.26	19.93	3.21
13000	16.13	38.09	14.87	18.73	6.00	1.02	34.24	20.37	3.39
14000	16.22	37.02	15.46	21.22	5.32	1.02	33.49	20.54	3.36
15000	16.15	36.03	16.29	18.43	4.79	1.00	32.24	20.51	4.32
16000	15.85	35.34	13.98	13.30	4.38	0.98	33.90	20.38	3.66
17000	15.52	34.83	11.20	11.48	4.01	0.99	32.09	20.24	3.98
18000	15.59	34.07	10.44	13.20	3.66	1.03	32.37	19.89	4.30
19000	15.96	33.17	11.91	16.89	3.37	1.03	34.05	19.93	4.34
20000	16.24	32.53	15.54	14.03	3.12	0.97	32.57	19.68	4.29
21000	16.49	31.99	18.16	12.49	2.85	0.93	37.07	19.72	4.51
22000	16.97	31.17	18.52	14.28	2.52	0.94	34.97	19.56	4.63
23000	17.40	30.53	17.39	14.33	2.23	0.94	28.22	18.04	4.72
24000	17.70	29.97	17.52	13.54	2.02	0.93	31.28	18.08	4.84
25000	17.86	29.44	15.68	14.71	1.89	0.94	30.91	18.30	5.11
26000	17.39	29.54	11.18	11.57	1.82	0.96	24.52	17.13	5.52
27000	16.92	29.68	10.29	10.14	1.80	0.98	26.98	17.58	5.96
28000	17.10	29.24	11.56	11.90	1.84	0.96	29.77	18.25	6.32
29000	17.49	28.68	17.38	19.25	1.89	0.94	27.10	18.33	6.45
30000	17.46	28.74	22.56	13.75	1.88	0.89	22.74	18.37	6.61
32000	18.29	28.23	14.41	17.97	1.63	0.93	23.24	18.30	7.11
34000	19.00	28.03	12.18	10.15	1.30	0.89	22.87	17.41	7.47
36000	18.59	28.75	14.99	7.20	1.38	0.76	21.55	17.79	7.76
38000	17.89	29.40	23.23	11.20	1.85	0.87	20.80	18.74	8.12
40000	17.70	30.29	12.81	12.29	2.04	0.92	19.43	18.31	9.04
42000	18.50	29.62	17.21	8.60	1.62	0.83	20.41	16.78	10.14
44000	16.47	32.08	16.77	5.80	2.27	0.72	---	---	10.31
46000	16.38	34.70	26.03	14.50	4.04	0.95	---	---	9.59
48000	14.00	31.48	9.69	10.90	3.22	0.98	---	---	11.54
50000	12.83	30.99	21.07	9.76	3.66	0.88	---	---	12.97

## 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: Vdd =5V, Idd =160mA @ 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)
50	19.37	86.28	8.24	24.97	938.70	1.15	30.58	19.16	3.29
100	17.71	78.70	12.12	27.19	524.98	1.06	31.67	19.09	3.61
500	16.39	66.47	19.12	28.19	157.39	1.01	30.71	18.92	4.06
1000	16.12	61.42	17.35	22.93	89.90	1.01	35.82	18.88	4.23
2000	16.04	55.28	14.88	18.54	43.72	1.02	35.42	18.71	4.08
3000	16.04	51.81	13.85	18.34	29.04	1.03	34.34	18.67	4.16
4000	16.06	49.26	13.41	19.41	21.57	1.03	33.17	18.63	4.00
5000	16.04	47.05	13.26	22.85	16.84	1.04	34.06	18.84	3.81
6000	16.03	45.36	15.36	22.08	14.13	1.02	34.90	19.04	3.33
7000	16.18	43.54	21.38	15.29	11.25	0.98	32.88	18.96	3.29
8000	16.15	42.63	21.02	12.68	9.92	0.95	28.74	18.97	3.18
9000	16.40	41.72	16.38	13.95	8.66	0.98	32.13	19.03	3.25
10000	16.91	40.82	14.66	20.50	7.52	1.02	31.11	18.99	3.10
11000	17.13	40.26	14.51	26.14	6.93	1.03	32.68	19.07	2.94
12000	17.20	39.62	14.81	17.85	6.31	1.01	32.37	19.15	2.87
13000	17.36	38.69	15.20	16.90	5.55	1.01	32.13	19.37	2.92
14000	17.56	37.54	16.02	21.43	4.87	1.01	31.65	19.56	2.85
15000	17.60	36.38	17.08	21.59	4.28	1.00	30.82	19.63	3.82
16000	17.36	35.55	13.95	14.82	3.84	0.99	29.93	19.27	3.18
17000	17.07	34.88	10.84	12.77	3.44	1.01	30.34	19.26	3.41
18000	17.07	34.09	10.18	13.80	3.11	1.04	29.40	18.82	3.74
19000	17.41	33.14	11.55	19.13	2.87	1.04	29.12	18.94	3.74
20000	17.68	32.45	14.30	17.16	2.68	0.98	28.65	19.03	3.84
21000	17.86	31.98	16.38	14.15	2.49	0.94	27.74	19.12	3.96
22000	18.28	31.24	18.99	17.03	2.26	0.94	27.80	18.86	4.11
23000	18.74	30.68	21.90	16.85	2.04	0.93	27.43	18.82	4.11
24000	19.08	30.18	21.64	14.26	1.84	0.90	26.10	18.49	4.20
25000	19.49	29.51	19.62	18.23	1.69	0.90	25.10	18.88	4.27
26000	19.14	29.53	11.81	11.38	1.57	0.90	24.48	18.70	4.48
27000	18.66	29.68	10.08	9.72	1.48	0.95	23.59	18.25	4.58
28000	18.94	29.10	10.27	12.65	1.48	0.97	24.11	18.24	4.78
29000	19.30	28.51	14.48	18.85	1.53	0.92	23.68	18.89	4.84
30000	19.27	28.47	17.54	15.82	1.54	0.88	23.01	18.79	5.31
32000	19.75	28.25	19.62	15.77	1.46	0.85	23.27	18.35	6.18
34000	20.71	27.85	11.55	10.78	1.16	0.82	20.91	18.22	6.61
36000	21.04	27.87	13.24	7.58	1.03	0.72	19.79	19.33	7.10
38000	20.41	28.13	17.89	7.61	1.15	0.71	19.28	18.96	7.99
40000	20.23	28.90	15.56	6.61	1.18	0.69	19.21	18.82	8.79
42000	21.20	27.46	17.71	4.48	0.82	0.49	15.28	16.91	9.10
44000	19.12	30.12	15.70	4.90	1.24	0.65	---	---	9.54
46000	18.95	32.04	33.06	13.39	2.26	0.91	---	---	9.05
48000	19.70	24.78	9.12	8.11	0.96	0.62	---	---	10.92
50000	17.74	26.58	17.46	13.13	1.47	0.84	---	---	10.70

## 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: Vdd = 5V, Idd = 150mA @ 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)
50	19.30	90.11	8.24	25.06	1470.79	1.15	33.76	19.10	3.16
100	17.64	80.11	12.13	27.34	622.63	1.06	34.72	19.04	3.54
500	16.32	66.73	19.17	28.21	163.51	1.01	30.99	18.90	4.03
1000	16.05	61.49	17.33	22.83	91.34	1.01	34.85	18.84	4.17
2000	15.96	55.31	14.89	18.48	44.27	1.02	34.74	18.70	4.03
3000	15.97	51.88	13.85	18.30	29.50	1.03	33.83	18.65	4.10
4000	15.99	49.35	13.41	19.45	21.97	1.03	33.12	18.62	3.92
5000	15.97	47.12	13.27	22.73	17.11	1.04	34.11	18.79	3.72
6000	15.96	45.45	15.43	21.75	14.40	1.02	34.39	19.01	3.18
7000	16.11	43.63	21.48	15.17	11.46	0.98	33.08	18.90	2.99
8000	16.08	42.70	20.86	12.57	10.06	0.95	29.41	18.94	3.06
9000	16.34	41.80	16.27	13.93	8.79	0.98	32.60	18.96	3.12
10000	16.84	40.93	14.61	20.78	7.68	1.02	31.55	18.91	3.29
11000	17.08	40.31	14.53	25.95	7.01	1.03	30.91	19.05	2.84
12000	17.15	39.67	14.92	17.65	6.38	1.01	33.54	19.06	2.75
13000	17.31	38.72	15.20	16.82	5.60	1.01	33.25	19.24	2.74
14000	17.52	37.55	16.06	21.79	4.90	1.01	32.55	19.42	2.77
15000	17.55	36.38	17.11	21.83	4.31	1.00	31.96	19.15	3.64
16000	17.30	35.54	13.82	14.83	3.85	0.99	30.79	19.08	2.97
17000	17.01	34.88	10.69	12.63	3.44	1.01	31.05	19.03	3.36
18000	17.01	34.08	10.10	13.70	3.12	1.04	29.80	18.88	3.57
19000	17.36	33.11	11.45	19.55	2.88	1.04	29.44	19.03	3.61
20000	17.63	32.43	14.42	17.18	2.69	0.98	29.13	18.94	3.65
21000	17.80	31.97	16.59	13.82	2.50	0.94	27.94	19.04	3.79
22000	18.23	31.23	18.99	16.77	2.27	0.94	28.19	18.90	3.93
23000	18.70	30.67	21.40	17.10	2.05	0.93	27.93	18.42	3.98
24000	19.04	30.16	21.47	14.50	1.85	0.90	26.52	18.01	4.01
25000	19.44	29.51	19.40	18.12	1.70	0.91	25.34	18.21	4.08
26000	19.07	29.56	11.62	11.23	1.58	0.91	24.80	17.72	4.28
27000	18.63	29.69	9.95	9.70	1.48	0.96	23.74	17.36	4.35
28000	18.94	29.07	10.48	12.47	1.48	0.96	24.26	17.30	4.52
29000	19.28	28.51	14.79	18.56	1.53	0.91	24.05	18.19	4.60
30000	19.20	28.52	16.83	15.79	1.55	0.89	23.18	18.34	4.69
32000	19.69	28.31	19.96	15.28	1.47	0.85	23.11	18.16	5.82
34000	20.62	27.95	11.29	10.92	1.17	0.83	20.96	18.32	6.38
36000	21.03	27.90	13.52	7.39	1.03	0.71	20.49	18.88	6.73
38000	20.27	28.39	17.51	7.95	1.20	0.74	20.29	18.07	7.52
40000	19.99	29.26	14.82	7.02	1.27	0.73	19.06	17.76	8.20
42000	20.99	27.94	17.80	5.53	0.95	0.59	15.17	17.59	8.65
44000	19.16	30.43	15.36	4.88	1.27	0.66	---	---	9.04
46000	18.93	32.36	29.08	12.69	2.32	0.90	---	---	8.67
48000	19.49	25.16	9.37	9.46	1.04	0.70	---	---	10.36
50000	17.72	26.81	16.57	12.64	1.49	0.85	---	---	10.32

## 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: Vdd =5V, Idd = 170mA @ 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)
50	19.36	83.64	8.23	24.69	693.05	1.15	28.44	19.24	3.42
100	17.70	80.85	12.10	26.80	672.87	1.06	29.08	19.17	3.76
500	16.38	66.38	19.19	27.81	155.96	1.01	30.16	19.05	4.20
1000	16.11	61.26	17.35	22.94	88.36	1.01	37.33	18.93	4.33
2000	16.02	55.06	14.90	18.70	42.75	1.02	36.58	18.79	4.22
3000	16.02	51.63	13.86	18.58	28.53	1.03	34.79	18.74	4.27
4000	16.04	49.12	13.42	19.80	21.29	1.03	33.12	18.71	4.11
5000	16.01	46.94	13.23	23.39	16.69	1.04	33.89	18.91	4.01
6000	16.00	45.22	15.39	22.24	13.96	1.02	33.53	19.13	3.41
7000	16.16	43.33	21.39	15.38	11.02	0.98	32.56	19.07	3.44
8000	16.11	42.51	20.82	12.83	9.84	0.95	27.94	19.07	3.30
9000	16.35	41.61	16.20	14.25	8.62	0.98	31.30	19.15	3.34
10000	16.85	40.95	14.54	22.29	7.71	1.03	30.50	19.10	37.02
11000	17.05	40.20	14.41	25.94	6.94	1.03	34.77	19.28	3.05
12000	17.12	39.60	14.90	17.74	6.35	1.01	31.10	19.28	3.07
13000	17.28	38.71	15.28	17.04	5.63	1.01	30.95	19.53	3.13
14000	17.47	37.60	16.21	22.44	4.96	1.01	30.49	19.79	3.13
15000	17.49	36.47	17.28	21.34	4.39	1.00	29.77	19.42	4.02
16000	17.23	35.67	13.92	14.77	3.94	0.99	29.08	19.44	3.44
17000	16.94	35.02	10.78	12.69	3.53	1.01	29.53	19.39	3.75
18000	16.95	34.21	10.17	13.88	3.20	1.04	29.25	19.28	4.06
19000	17.30	33.26	11.54	20.11	2.95	1.04	28.70	19.29	4.07
20000	17.56	32.59	14.55	17.41	2.76	0.98	28.30	19.38	21.60
21000	17.73	32.10	16.72	13.90	2.56	0.94	27.39	19.47	4.21
22000	18.16	31.35	18.97	17.20	2.32	0.95	27.43	19.35	4.37
23000	18.61	30.78	21.34	17.25	2.09	0.93	27.08	19.05	4.34
24000	18.94	30.28	21.71	14.77	1.89	0.91	25.76	18.55	4.45
25000	19.30	29.64	19.62	18.33	1.74	0.91	24.79	18.73	4.54
26000	18.92	29.69	11.87	11.18	1.62	0.91	24.33	18.24	4.76
27000	18.50	29.80	10.12	9.96	1.53	0.96	23.51	18.00	4.93
28000	18.79	29.18	10.59	13.04	1.54	0.97	23.97	18.14	5.14
29000	19.13	28.61	14.99	19.68	1.58	0.92	23.88	18.91	5.20
30000	19.06	28.58	17.16	16.67	1.59	0.89	23.43	18.92	13.46
32000	19.62	28.27	19.40	16.18	1.48	0.86	22.79	18.93	6.48
34000	20.42	27.98	11.60	10.16	1.18	0.82	20.68	19.00	7.08
36000	20.79	27.90	13.68	7.96	1.08	0.73	19.98	19.10	7.49
38000	20.23	28.00	17.49	7.97	1.17	0.73	19.47	18.64	8.54
40000	20.19	28.55	14.82	6.00	1.10	0.65	18.87	17.89	17.52
42000	21.00	27.11	17.87	3.86	0.75	0.43	15.94	17.77	9.59
44000	18.75	29.70	16.02	5.06	1.27	0.66	---	---	10.14
46000	18.57	31.63	32.57	16.23	2.31	0.93	---	---	9.62
48000	19.00	24.95	8.42	7.04	0.96	0.64	---	---	11.46
50000	17.23	26.50	18.73	12.58	1.51	0.85	---	---	11.62



## Typical Performance Data

### Definitions:

Input Return Loss = -S11 (dB)  
 Gain(Power Gain) = S21 (dB)  
 Reverse Isolation = -S12 (dB)  
 Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vdd = 5V, Idd = 160mA @ 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)
50	18.82	84.01	7.35	25.10	739.25	1.18	34.03	20.76	8.85
100	17.10	81.50	11.58	27.46	770.74	1.07	34.25	20.65	7.40
500	15.64	69.85	20.28	28.89	254.00	1.01	30.85	20.40	5.66
1000	15.34	63.64	18.97	22.98	127.72	1.01	30.97	20.42	5.44
2000	15.14	57.20	15.26	18.20	60.58	1.01	32.05	20.16	5.32
3000	14.98	53.40	13.13	18.14	39.05	1.03	32.47	20.12	5.37
4000	14.82	50.41	12.03	19.70	27.90	1.05	32.56	20.05	5.20
5000	14.66	47.84	11.75	21.81	21.14	1.06	33.24	20.11	4.92
6000	14.64	45.64	13.23	20.26	16.74	1.04	31.80	20.44	4.31
7000	14.65	43.83	17.10	15.20	13.68	0.99	32.18	20.19	3.97
8000	14.62	42.51	17.85	12.70	11.55	0.96	31.54	20.62	3.97
9000	14.80	41.53	14.87	14.05	10.08	0.99	31.34	20.29	3.95
10000	15.20	40.63	13.80	21.57	8.90	1.03	30.86	19.72	3.82
11000	15.39	39.92	14.24	21.76	8.07	1.03	30.53	19.73	3.68
12000	15.40	39.13	14.82	17.60	7.31	1.01	30.11	19.54	3.59
13000	15.50	38.11	14.82	17.86	6.44	1.01	29.84	19.95	3.79
14000	15.62	36.94	14.86	20.24	5.60	1.02	29.49	20.08	3.80
15000	15.60	35.80	15.25	22.04	4.97	1.02	29.04	19.91	4.70
16000	15.36	34.98	13.40	16.72	4.51	1.01	28.71	19.44	4.12
17000	15.10	34.33	11.14	14.24	4.09	1.03	28.29	19.46	4.39
18000	15.13	33.53	10.56	15.89	3.72	1.06	27.99	19.06	4.64
19000	15.42	32.68	12.12	20.49	3.44	1.04	27.62	19.01	4.73
20000	15.69	32.01	15.01	18.94	3.20	1.00	27.35	18.75	4.72
21000	15.89	31.48	16.80	17.67	2.97	0.98	26.88	18.50	4.93
22000	16.17	30.82	16.52	19.72	2.69	0.98	26.25	18.30	5.01
23000	16.45	30.30	16.45	17.61	2.45	0.97	26.40	17.48	5.11
24000	16.70	29.76	17.96	15.97	2.25	0.95	25.99	17.80	5.26
25000	16.84	29.23	15.78	18.98	2.11	0.96	25.80	17.90	5.32
26000	16.45	29.25	11.06	13.94	2.01	1.00	25.63	16.67	5.60
27000	16.07	29.30	10.52	10.97	1.95	0.99	25.66	16.83	5.91
28000	16.27	28.82	11.61	11.16	1.93	0.94	25.34	17.23	6.05
29000	16.82	28.11	17.89	19.36	1.93	0.93	25.01	17.16	5.96
30000	16.94	28.01	26.47	16.94	1.88	0.91	24.78	17.12	6.23
32000	17.35	27.79	11.90	22.25	1.70	0.97	24.73	17.21	6.86
34000	17.81	27.67	13.41	11.73	1.49	0.91	25.25	16.23	7.26
36000	17.31	28.41	17.41	8.27	1.64	0.79	24.79	16.25	7.49
38000	16.73	28.83	18.97	12.15	2.00	0.89	23.64	17.13	7.78
40000	16.87	28.76	11.89	15.84	1.96	0.95	23.61	16.36	8.29
42000	16.97	28.69	19.08	12.15	1.89	0.90	23.30	14.86	9.11
44000	14.72	31.66	14.78	7.32	2.88	0.81	---	---	9.73
46000	15.43	33.39	26.30	19.08	3.96	0.97	---	---	10.06
48000	11.96	32.35	10.47	10.44	4.46	0.97	---	---	12.00
50000	11.47	30.88	28.76	10.26	4.28	0.90	---	---	12.54

## 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: Vdd = 5V, Idd = 150mA @ 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)
50	18.74	86.96	7.33	25.24	1046.81	1.18	34.13	20.61	8.47
100	17.00	80.07	11.58	27.69	661.38	1.07	33.19	20.48	7.09
500	15.55	70.11	20.23	29.16	264.43	1.01	32.28	20.29	5.44
1000	15.25	64.23	18.93	23.07	138.12	1.01	34.73	20.29	5.46
2000	15.04	57.66	15.21	18.27	64.60	1.02	34.51	20.04	5.32
3000	14.87	53.82	13.04	18.23	41.47	1.03	34.14	20.00	5.33
4000	14.70	50.85	11.93	19.83	29.72	1.05	33.67	19.93	5.16
5000	14.53	48.21	11.65	22.09	22.36	1.06	33.49	19.98	4.84
6000	14.50	45.94	13.11	20.59	17.60	1.04	33.20	20.31	4.22
7000	14.52	44.08	16.93	15.39	14.30	0.99	32.85	20.08	3.93
8000	14.49	42.75	17.64	12.86	12.07	0.96	32.52	20.47	3.89
9000	14.66	41.74	14.74	14.24	10.50	1.00	31.85	20.17	3.85
10000	15.05	40.86	13.70	22.02	9.30	1.04	31.29	19.62	3.77
11000	15.24	40.16	14.22	22.07	8.44	1.03	31.09	19.61	3.63
12000	15.24	39.36	14.78	17.78	7.65	1.02	30.67	19.40	3.56
13000	15.34	38.33	14.78	18.07	6.73	1.02	30.44	19.80	3.71
14000	15.45	37.16	14.85	20.53	5.86	1.02	30.15	19.92	3.70
15000	15.43	36.02	15.23	22.26	5.20	1.02	29.64	19.72	4.68
16000	15.19	35.19	13.38	16.80	4.71	1.02	29.31	19.26	4.06
17000	14.93	34.53	11.12	14.40	4.27	1.03	29.25	19.27	4.37
18000	14.97	33.72	10.56	16.17	3.87	1.06	28.71	18.85	4.63
19000	15.26	32.86	12.11	21.01	3.58	1.04	28.49	18.78	4.69
20000	15.52	32.20	14.95	19.52	3.33	1.00	28.29	18.55	4.63
21000	15.71	31.65	16.69	18.29	3.09	0.99	27.62	18.31	4.84
22000	15.98	31.01	16.24	20.49	2.81	0.99	26.93	18.13	4.97
23000	16.23	30.50	16.29	18.14	2.56	0.98	27.06	17.34	5.05
24000	16.47	29.95	17.86	16.52	2.36	0.96	26.66	17.66	5.18
25000	16.58	29.45	15.74	19.59	2.22	0.97	26.39	17.78	5.26
26000	16.18	29.46	11.15	14.14	2.12	1.00	26.21	16.60	5.57
27000	15.81	29.49	10.56	11.19	2.06	1.00	26.24	16.78	5.82
28000	16.02	29.02	11.52	11.39	2.03	0.95	26.21	17.10	6.03
29000	16.56	28.30	17.64	20.09	2.02	0.94	25.72	17.03	6.00
30000	16.69	28.18	26.33	17.50	1.97	0.92	25.23	17.04	6.11
32000	17.04	28.00	11.69	23.62	1.79	0.98	25.22	17.08	6.79
34000	17.40	27.95	13.72	11.89	1.61	0.92	25.93	16.05	7.17
36000	16.90	28.67	17.07	8.68	1.78	0.81	24.89	16.04	7.45
38000	16.35	29.04	18.08	12.88	2.14	0.91	23.84	16.92	7.71
40000	16.43	28.96	12.16	16.97	2.10	0.97	23.97	16.09	8.34
42000	16.27	29.09	19.99	12.77	2.14	0.92	23.55	14.66	9.11
44000	14.11	31.89	14.16	7.76	3.21	0.84	---	---	9.70
46000	14.70	33.62	27.35	20.12	4.43	0.98	---	---	10.07
48000	11.14	33.44	10.80	10.56	5.56	0.97	---	---	12.24
50000	10.43	31.70	29.63	10.02	5.25	0.89	---	---	12.42



## 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: Vdd = 5V, Idd = 170mA @ 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)
50	18.92	85.03	7.33	24.86	820.83	1.18	29.74	21.05	9.38
100	17.20	79.80	11.58	27.06	626.38	1.07	30.46	20.93	7.81
500	15.75	68.92	20.33	28.39	225.32	1.01	31.52	20.67	5.58
1000	15.45	62.94	19.01	22.84	116.35	1.01	31.25	20.68	5.50
2000	15.25	56.40	15.32	18.13	54.56	1.01	32.02	20.39	5.37
3000	15.10	52.66	13.25	18.02	35.40	1.03	33.33	20.31	5.43
4000	14.96	49.86	12.15	19.49	25.81	1.05	33.18	20.19	5.20
5000	14.80	47.32	11.89	21.48	19.63	1.06	39.76	20.23	4.93
6000	14.79	45.20	13.40	19.83	15.66	1.04	31.64	20.56	4.33
7000	14.80	43.43	17.30	14.95	12.83	0.99	31.18	20.28	4.04
8000	14.77	42.16	18.09	12.52	10.89	0.96	30.81	20.72	4.04
9000	14.97	41.16	15.05	13.83	9.47	0.99	35.42	20.34	3.98
10000	15.37	40.29	13.92	20.90	8.40	1.03	28.77	19.74	3.95
11000	15.57	39.56	14.27	21.26	7.59	1.03	27.97	19.78	3.76
12000	15.58	38.76	14.76	17.24	6.85	1.01	27.46	19.63	3.71
13000	15.69	37.74	14.79	17.48	6.03	1.01	27.08	20.09	3.84
14000	15.81	36.56	14.88	19.78	5.25	1.02	26.84	20.29	3.85
15000	15.80	35.45	15.24	21.73	4.67	1.02	26.59	19.81	4.76
16000	15.56	34.64	13.34	16.52	4.24	1.01	26.20	19.29	4.17
17000	15.28	34.03	11.08	13.98	3.87	1.03	26.87	19.40	4.43
18000	15.32	33.23	10.57	15.49	3.51	1.05	26.68	18.96	4.71
19000	15.61	32.39	12.15	19.58	3.26	1.04	26.68	18.93	4.80
20000	15.87	31.75	15.02	18.14	3.04	0.99	26.87	18.69	4.77
21000	16.07	31.21	16.93	16.84	2.82	0.97	26.94	18.48	4.97
22000	16.39	30.55	16.82	18.56	2.55	0.97	26.44	18.23	5.11
23000	16.69	30.03	16.67	16.80	2.31	0.96	25.81	17.28	5.20
24000	16.97	29.48	18.00	15.16	2.11	0.94	25.22	17.62	5.34
25000	17.15	28.93	15.82	17.84	1.97	0.95	25.10	17.70	5.40
26000	16.76	28.95	10.97	13.58	1.88	0.99	24.23	16.33	5.70
27000	16.35	29.04	10.44	10.66	1.82	0.98	24.12	16.55	5.94
28000	16.54	28.61	11.62	10.75	1.81	0.93	24.29	17.05	6.06
29000	17.11	27.89	17.95	18.06	1.82	0.92	23.72	16.96	6.04
30000	17.20	27.82	26.62	15.93	1.79	0.89	22.97	16.88	6.15
32000	17.71	27.57	12.09	20.10	1.60	0.95	22.70	17.00	6.93
34000	18.30	27.35	13.09	11.19	1.36	0.89	27.31	16.14	7.29
36000	17.77	28.14	17.56	7.63	1.49	0.75	22.20	16.02	7.54
38000	17.16	28.68	20.40	11.17	1.86	0.86	21.36	16.95	7.84
40000	17.35	28.67	11.65	13.91	1.82	0.93	21.69	16.28	8.38
42000	17.88	28.28	17.77	11.12	1.62	0.87	22.01	14.70	9.16
44000	15.44	31.57	15.71	6.59	2.54	0.77	---	---	9.74
46000	16.22	33.47	24.58	16.03	3.62	0.96	---	---	9.62
48000	13.05	30.85	9.84	10.38	3.32	0.96	---	---	11.93
50000	12.92	29.79	27.58	10.63	3.26	0.89	---	---	12.29