

## 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 = 5V, Id = 52.96 mA @ Temperature = +25degC

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)
100	6.43	37.91	0.54	6.97	2.19	1.48	28.41	14.23	12.92
200	13.85	30.41	2.00	7.63	1.43	1.23	26.34	13.95	5.26
300	16.33	27.81	3.80	8.94	1.32	1.04	25.78	13.97	3.52
400	17.38	26.62	5.42	10.17	1.27	0.93	26.66	13.98	2.85
500	17.90	26.02	6.75	11.17	1.25	0.87	26.20	14.02	2.57
1000	18.61	24.98	10.40	13.73	1.21	0.76	25.82	14.46	2.14
1500	18.66	24.84	11.49	14.27	1.21	0.74	26.60	14.40	2.06
2000	18.55	24.92	11.48	14.13	1.22	0.75	26.51	14.23	2.09
2500	18.42	25.06	11.28	14.03	1.24	0.76	26.28	14.18	2.05
3000	18.30	25.20	11.25	14.60	1.26	0.79	26.34	14.13	2.05
3500	18.22	25.27	11.43	15.94	1.28	0.81	26.42	14.28	2.11
4000	18.11	25.38	11.40	17.41	1.31	0.83	26.00	14.15	2.13
4500	17.98	25.48	11.43	19.09	1.33	0.86	26.01	14.18	2.13
5000	17.84	25.64	11.53	21.19	1.36	0.88	26.77	14.52	2.16
5500	17.67	25.73	11.80	24.25	1.39	0.89	25.92	14.22	2.20
6000	17.45	25.90	11.88	27.47	1.43	0.91	26.44	14.32	2.29
6500	17.17	26.09	11.59	30.71	1.48	0.94	25.81	14.18	2.33
7000	16.93	26.30	11.05	32.96	1.52	0.96	25.35	13.98	2.40
7500	16.68	26.52	10.57	31.24	1.57	0.99	24.91	13.80	2.43
8000	16.49	26.68	9.92	27.19	1.59	1.01	25.27	13.78	2.51
8500	16.34	26.74	9.36	23.98	1.59	1.03	25.26	13.78	2.60
9000	16.23	26.82	9.05	21.69	1.59	1.04	25.22	13.70	2.64
9500	16.15	26.89	9.23	19.60	1.61	1.04	25.48	13.75	2.69
10000	15.87	27.12	9.63	17.88	1.70	1.04	25.55	13.70	2.89
10500	15.89	27.10	10.06	15.46	1.68	1.02	25.69	13.74	2.75
11000	15.65	27.26	11.07	13.49	1.75	0.99	25.70	13.45	2.74
11500	15.35	27.52	11.46	11.80	1.82	0.97	25.47	13.32	2.83
12000	14.99	27.92	10.79	10.40	1.88	0.97	24.91	12.94	3.00
12500	14.53	28.34	9.32	9.35	1.91	0.99	24.47	12.46	3.23
13000	14.01	28.86	7.76	8.59	1.92	1.03	24.21	12.18	3.45
13500	13.51	29.26	6.52	8.09	1.91	1.07	23.92	11.78	3.68
14000	13.05	29.72	5.72	7.65	1.93	1.09	23.47	11.76	3.88
14500	12.63	30.05	5.34	7.39	2.00	1.10	23.22	11.51	4.04
15000	11.96	30.75	5.46	7.08	2.34	1.07	22.34	11.01	4.41
15500	10.57	31.93	6.82	6.82	3.51	0.98	21.17	10.45	5.11
16000	8.41	33.76	12.45	6.29	6.59	0.82	20.32	10.01	6.42

## 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 = 6V, Id = 71.67 mA @ Temperature = +25degC

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)
100	7.00	38.69	0.54	6.74	2.20	1.46	29.62	15.39	13.21
200	14.64	30.72	2.08	8.09	1.41	1.25	28.43	14.95	5.58
300	17.16	28.07	4.05	9.87	1.30	1.06	28.04	14.97	3.69
400	18.19	26.98	5.84	11.44	1.26	0.94	28.77	15.19	3.00
500	18.70	26.37	7.33	12.70	1.24	0.87	28.47	15.25	2.69
1000	19.38	25.42	11.58	15.95	1.20	0.75	28.32	15.74	2.21
1500	19.41	25.26	12.93	16.49	1.20	0.73	29.29	15.81	2.13
2000	19.31	25.33	12.91	16.07	1.21	0.74	29.40	15.77	2.16
2500	19.17	25.47	12.65	15.72	1.23	0.76	29.33	15.86	2.12
3000	19.04	25.59	12.57	16.14	1.25	0.77	29.45	15.93	2.11
3500	18.93	25.72	12.75	17.41	1.28	0.80	29.33	16.09	2.17
4000	18.80	25.79	12.66	18.66	1.29	0.82	28.98	15.98	2.16
4500	18.65	25.97	12.63	19.90	1.32	0.84	28.84	16.09	2.22
5000	18.49	26.11	12.70	20.91	1.35	0.86	29.34	16.44	2.22
5500	18.30	26.22	12.95	21.73	1.39	0.87	28.50	16.13	2.30
6000	18.08	26.44	12.97	22.14	1.43	0.89	28.76	16.29	2.36
6500	17.80	26.64	12.58	22.80	1.48	0.92	28.15	16.12	2.38
7000	17.56	26.84	11.93	23.86	1.53	0.94	27.70	15.95	2.43
7500	17.32	27.05	11.40	24.95	1.57	0.97	27.25	15.67	2.53
8000	17.13	27.24	10.65	26.15	1.60	0.99	27.45	15.60	2.59
8500	16.98	27.37	10.01	25.33	1.62	1.01	27.32	15.60	2.68
9000	16.87	27.39	9.65	23.55	1.62	1.03	27.14	15.53	2.73
9500	16.78	27.49	9.83	21.02	1.64	1.03	27.22	15.52	2.77
10000	16.49	27.80	10.22	18.95	1.74	1.03	27.35	15.38	2.97
10500	16.51	27.72	10.64	16.26	1.72	1.01	27.27	15.43	2.82
11000	16.28	27.94	11.67	14.10	1.80	0.98	27.29	15.11	2.84
11500	16.00	28.28	11.94	12.37	1.88	0.97	26.90	14.88	2.96
12000	15.66	28.71	11.11	10.96	1.95	0.97	26.24	14.41	3.13
12500	15.22	29.15	9.53	9.94	1.99	1.00	25.73	13.83	3.33
13000	14.73	29.61	7.90	9.21	2.00	1.04	25.32	13.41	3.60
13500	14.25	30.08	6.64	8.73	2.01	1.08	24.99	13.03	3.82
14000	13.80	30.46	5.82	8.28	2.02	1.11	24.40	12.92	4.07
14500	13.38	30.90	5.41	7.98	2.11	1.12	24.17	12.65	4.24
15000	12.72	31.65	5.50	7.61	2.47	1.10	23.37	11.99	4.57
15500	11.33	32.84	6.84	7.32	3.69	1.01	22.16	11.35	5.34
16000	9.21	34.84	12.59	6.75	7.04	0.84	21.45	10.77	6.62

## 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: Vd = 4.75V, Id =48.39 mA @ Temperature = +25degC

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)
100	6.20	37.66	0.54	7.05	2.18	1.49	27.07	13.70	12.82
200	13.53	30.21	1.96	7.42	1.42	1.22	25.09	13.45	5.17
300	16.00	27.68	3.70	8.57	1.32	1.03	24.47	13.45	3.47
400	17.05	26.51	5.26	9.70	1.28	0.93	25.26	13.45	2.81
500	17.58	25.87	6.53	10.62	1.25	0.86	24.88	13.43	2.58
1000	18.31	24.86	9.99	12.97	1.21	0.76	24.55	13.87	2.11
1500	18.37	24.73	11.01	13.51	1.21	0.74	25.19	13.78	2.03
2000	18.26	24.79	11.01	13.43	1.23	0.75	25.13	13.60	2.07
2500	18.13	24.95	10.85	13.40	1.25	0.77	24.84	13.49	2.00
3000	18.02	25.06	10.83	13.97	1.27	0.79	24.93	13.42	2.01
3500	17.94	25.16	11.01	15.28	1.29	0.81	25.05	13.52	2.08
4000	17.84	25.21	11.01	16.71	1.31	0.84	24.64	13.39	2.08
4500	17.73	25.34	11.04	18.39	1.33	0.86	24.70	13.40	2.13
5000	17.60	25.43	11.17	20.59	1.36	0.88	25.65	13.71	2.09
5500	17.43	25.53	11.46	24.23	1.39	0.90	24.74	13.49	2.17
6000	17.22	25.73	11.57	29.08	1.43	0.92	25.38	13.50	2.25
6500	16.95	25.88	11.32	36.64	1.48	0.94	24.77	13.42	2.29
7000	16.70	26.08	10.82	39.82	1.52	0.97	24.25	13.24	2.32
7500	16.45	26.31	10.37	31.24	1.56	0.99	23.77	13.06	2.41
8000	16.25	26.48	9.73	25.88	1.59	1.02	24.27	12.99	2.48
8500	16.11	26.57	9.18	22.78	1.59	1.04	24.31	13.06	2.55
9000	16.01	26.61	8.89	20.71	1.58	1.05	24.37	12.94	2.60
9500	15.94	26.65	9.07	19.00	1.59	1.05	24.71	13.05	2.65
10000	15.66	26.89	9.51	17.43	1.68	1.04	24.65	13.02	2.87
10500	15.69	26.75	9.94	15.12	1.64	1.02	24.95	13.05	2.67
11000	15.45	26.96	10.98	13.21	1.72	0.99	24.96	12.79	2.69
11500	15.14	27.21	11.40	11.56	1.79	0.97	24.75	12.69	2.82
12000	14.78	27.63	10.81	10.20	1.85	0.97	24.25	12.32	2.95
12500	14.32	27.99	9.38	9.15	1.87	0.98	23.68	11.87	3.18
13000	13.80	28.47	7.82	8.39	1.87	1.02	23.41	11.57	3.38
13500	13.31	28.94	6.58	7.88	1.87	1.06	23.16	11.23	3.64
14000	12.85	29.29	5.76	7.45	1.86	1.08	22.66	11.16	3.84
14500	12.44	29.76	5.38	7.19	1.96	1.09	22.36	11.00	3.99
15000	11.78	30.30	5.48	6.89	2.24	1.06	21.35	10.57	4.33
15500	10.39	31.56	6.82	6.68	3.40	0.98	20.18	10.02	5.00
16000	8.17	33.44	12.75	6.20	6.52	0.81	19.26	9.53	6.37

## 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 = 6.25V, Id = 76.53 mA @ Temperature = +25degC

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)
100	6.98	38.80	0.54	6.78	2.23	1.47	28.73	15.35	13.43
200	14.61	30.72	2.08	8.13	1.41	1.25	27.93	14.91	5.78
300	17.13	28.14	4.05	9.90	1.31	1.06	27.47	14.96	3.90
400	18.18	27.00	5.86	11.49	1.27	0.94	28.22	15.17	3.13
500	18.69	26.44	7.37	12.76	1.25	0.87	28.00	15.27	2.80
1000	19.39	25.44	11.71	16.07	1.20	0.75	28.00	15.75	2.30
1500	19.43	25.31	13.10	16.62	1.20	0.74	28.61	15.85	2.19
2000	19.33	25.37	13.08	16.16	1.21	0.74	28.85	15.81	2.25
2500	19.19	25.49	12.82	15.78	1.23	0.75	28.86	15.93	2.18
3000	19.06	25.63	12.74	16.15	1.25	0.77	29.08	16.04	2.17
3500	18.94	25.74	12.90	17.36	1.28	0.80	28.95	16.20	2.22
4000	18.81	25.89	12.81	18.55	1.30	0.82	28.65	16.12	2.26
4500	18.66	26.00	12.77	19.69	1.33	0.84	28.51	16.24	2.27
5000	18.50	26.14	12.82	20.56	1.36	0.86	28.96	16.61	2.29
5500	18.31	26.26	13.07	21.29	1.39	0.87	28.21	16.31	2.32
6000	18.09	26.47	13.07	21.71	1.44	0.89	28.43	16.50	2.43
6500	17.82	26.67	12.66	22.46	1.49	0.91	27.88	16.33	2.45
7000	17.58	26.87	12.01	23.57	1.53	0.94	27.46	16.10	2.51
7500	17.34	27.16	11.45	24.84	1.59	0.97	27.03	15.83	2.60
8000	17.15	27.36	10.70	26.43	1.62	0.99	27.21	15.78	2.68
8500	17.00	27.45	10.06	25.97	1.63	1.01	27.01	15.77	2.73
9000	16.89	27.48	9.71	24.17	1.63	1.03	26.90	15.69	2.81
9500	16.79	27.57	9.88	21.48	1.66	1.03	26.91	15.66	2.84
10000	16.52	27.92	10.25	19.34	1.76	1.03	27.00	15.50	3.07
10500	16.53	27.87	10.68	16.59	1.74	1.01	26.92	15.56	2.91
11000	16.30	28.06	11.68	14.39	1.82	0.99	26.80	15.25	2.90
11500	16.02	28.36	11.94	12.61	1.90	0.97	26.37	15.01	3.04
12000	15.68	28.77	11.09	11.15	1.97	0.98	25.66	14.52	3.21
12500	15.25	29.32	9.48	10.10	2.03	1.00	25.16	13.91	3.43
13000	14.75	29.75	7.86	9.33	2.04	1.04	24.87	13.44	3.70
13500	14.27	30.27	6.60	8.84	2.05	1.09	24.43	13.03	3.93
14000	13.81	30.69	5.79	8.36	2.07	1.11	23.89	12.96	4.17
14500	13.39	31.15	5.39	8.06	2.18	1.12	23.64	12.61	4.35
15000	12.71	31.81	5.51	7.66	2.53	1.10	22.83	11.98	4.69
15500	11.31	33.17	6.89	7.33	3.87	1.01	21.65	11.19	5.49
16000	9.24	34.85	12.48	6.74	7.01	0.84	20.99	10.70	6.75

## 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 = 5V, Id =52.20 mA @ Temperature = -45degC

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)
100	6.91	38.47	0.50	6.77	2.05	1.47	28.06	14.44	11.51
200	14.45	30.74	1.96	7.73	1.39	1.24	25.95	13.98	4.18
300	16.97	28.06	3.83	9.31	1.29	1.05	25.34	13.90	2.65
400	18.03	26.86	5.53	10.71	1.24	0.93	26.21	13.91	2.19
500	18.55	26.34	6.94	11.84	1.23	0.86	25.83	13.87	1.94
1000	19.25	25.27	10.84	14.73	1.19	0.74	25.37	14.40	1.57
1500	19.32	25.10	12.11	15.49	1.19	0.72	25.98	14.27	1.51
2000	19.24	25.11	12.27	15.46	1.19	0.73	25.95	14.11	1.57
2500	19.12	25.23	12.13	15.39	1.21	0.74	25.79	14.00	1.45
3000	18.99	25.35	11.91	15.71	1.23	0.76	25.92	13.95	1.45
3500	18.90	25.47	12.06	17.02	1.25	0.79	26.08	14.09	1.51
4000	18.81	25.55	12.12	18.75	1.26	0.81	25.84	13.94	1.52
4500	18.69	25.62	12.20	20.59	1.28	0.83	25.95	14.04	1.53
5000	18.56	25.73	12.37	22.70	1.30	0.85	26.94	14.36	1.52
5500	18.40	25.83	12.88	24.17	1.33	0.86	26.02	14.11	1.55
6000	18.22	25.93	13.35	24.23	1.36	0.87	26.98	14.28	1.63
6500	17.97	26.11	13.30	22.34	1.40	0.89	26.43	14.20	1.62
7000	17.74	26.30	12.11	22.51	1.42	0.93	25.86	14.01	1.69
7500	17.47	26.55	10.90	24.12	1.46	0.97	25.46	13.88	1.76
8000	17.29	26.72	9.80	25.91	1.48	1.00	25.55	13.70	1.82
8500	17.16	26.73	9.34	26.08	1.48	1.01	25.58	13.81	1.85
9000	17.13	26.74	9.44	23.42	1.48	1.01	25.97	13.78	1.85
9500	17.11	26.79	10.21	18.52	1.49	1.00	26.15	13.82	1.84
10000	16.76	27.01	12.16	14.98	1.59	0.96	26.30	13.87	2.12
10500	16.68	27.12	11.82	13.41	1.58	0.96	26.81	13.85	1.93
11000	16.48	27.18	12.89	11.96	1.61	0.93	26.89	13.63	1.93
11500	16.28	27.44	13.10	10.64	1.65	0.91	26.61	13.56	2.01
12000	16.01	27.65	11.98	9.26	1.64	0.91	26.05	13.25	2.15
12500	15.64	28.08	10.01	8.15	1.61	0.92	25.76	12.76	2.35
13000	15.23	28.41	8.21	7.64	1.56	0.97	25.17	12.38	2.54
13500	14.94	28.66	7.01	7.62	1.53	1.03	24.94	12.12	2.68
14000	14.76	28.80	6.35	7.85	1.52	1.07	24.52	12.22	2.80
14500	14.58	28.93	6.06	8.03	1.55	1.09	24.15	12.11	2.86
15000	13.96	29.60	5.71	7.54	1.69	1.09	22.98	11.56	3.15
15500	12.69	30.91	5.33	6.63	2.06	1.06	21.82	10.76	3.61
16000	10.44	33.09	6.34	5.95	3.68	0.95	20.92	10.20	4.89

## 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 = 6V, Id = 72.49 mA @ Temperature = -45degC

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)
100	7.58	39.45	0.50	6.36	2.07	1.43	34.23	16.66	11.73
200	15.41	31.17	2.06	8.21	1.37	1.25	31.60	16.22	4.32
300	17.97	28.53	4.15	10.49	1.28	1.06	31.11	16.23	2.80
400	19.00	27.36	6.08	12.45	1.24	0.94	32.15	16.33	2.26
500	19.49	26.72	7.68	13.99	1.21	0.86	31.37	16.35	2.00
1000	20.14	25.72	12.31	17.97	1.17	0.73	30.67	16.87	1.62
1500	20.18	25.54	13.91	18.76	1.17	0.71	31.90	16.86	1.54
2000	20.09	25.60	14.08	18.24	1.18	0.72	31.87	16.77	1.61
2500	19.96	25.67	13.84	17.74	1.19	0.73	31.65	16.84	1.52
3000	19.81	25.82	13.51	17.77	1.21	0.75	31.81	16.83	1.54
3500	19.70	25.93	13.62	18.76	1.23	0.77	31.91	16.97	1.56
4000	19.57	26.05	13.62	20.02	1.25	0.79	31.58	16.87	1.58
4500	19.42	26.17	13.63	20.57	1.28	0.81	31.50	16.93	1.56
5000	19.26	26.29	13.77	20.77	1.30	0.82	32.14	17.21	1.57
5500	19.07	26.43	14.25	19.84	1.33	0.84	31.13	16.98	1.59
6000	18.87	26.56	14.62	18.95	1.36	0.85	31.49	17.08	1.68
6500	18.61	26.75	14.39	18.04	1.41	0.87	30.86	16.99	1.67
7000	18.39	26.94	12.97	18.79	1.43	0.90	30.33	16.86	1.74
7500	18.14	27.13	11.70	20.87	1.47	0.94	29.80	16.69	1.81
8000	17.98	27.36	10.54	24.72	1.50	0.98	29.80	16.46	1.86
8500	17.84	27.34	10.04	25.30	1.49	0.99	29.80	16.54	1.92
9000	17.78	27.35	10.14	21.98	1.50	0.99	29.64	16.46	1.92
9500	17.73	27.46	10.95	17.67	1.52	0.98	29.75	16.42	1.92
10000	17.35	27.76	13.06	14.53	1.64	0.94	30.07	16.40	2.19
10500	17.28	27.78	12.59	13.39	1.62	0.94	30.15	16.32	2.01
11000	17.10	27.92	13.64	12.07	1.66	0.92	30.21	16.04	1.99
11500	16.91	28.07	13.59	10.82	1.68	0.91	30.11	15.91	2.10
12000	16.65	28.44	12.12	9.49	1.70	0.90	29.79	15.52	2.23
12500	16.29	28.90	10.02	8.47	1.69	0.93	29.26	15.02	2.44
13000	15.90	29.21	8.25	8.05	1.64	0.98	28.79	14.61	2.65
13500	15.62	29.51	7.07	8.15	1.62	1.04	28.43	14.34	2.78
14000	15.45	29.62	6.43	8.47	1.61	1.08	27.75	14.38	2.88
14500	15.27	29.81	6.11	8.68	1.65	1.11	27.17	14.22	2.99
15000	14.65	30.43	5.70	8.10	1.78	1.11	26.58	13.59	3.25
15500	13.40	31.84	5.31	7.09	2.19	1.08	25.06	12.73	3.79
16000	11.17	33.70	6.31	6.36	3.75	0.98	24.15	12.12	5.03

## 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 = 47.80 mA @ Temperature = -45degC

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)
100	6.61	38.26	0.49	6.91	2.07	1.48	26.18	13.78	11.48
200	14.05	30.55	1.91	7.50	1.39	1.23	24.32	13.15	4.16
300	16.54	27.83	3.70	8.84	1.29	1.04	23.72	13.04	2.68
400	17.62	26.77	5.33	10.08	1.26	0.93	24.59	12.97	2.17
500	18.14	26.09	6.67	11.09	1.23	0.86	24.12	12.98	1.91
1000	18.88	25.07	10.32	13.66	1.19	0.74	23.76	13.50	1.57
1500	18.95	24.89	11.49	14.38	1.19	0.73	24.21	13.38	1.50
2000	18.87	24.90	11.64	14.42	1.20	0.73	24.27	13.20	1.54
2500	18.75	25.04	11.54	14.43	1.22	0.75	24.05	13.03	1.48
3000	18.63	25.16	11.34	14.78	1.23	0.77	24.18	12.92	1.48
3500	18.56	25.24	11.50	16.05	1.25	0.79	24.37	13.10	1.51
4000	18.47	25.31	11.58	17.73	1.27	0.81	24.09	12.96	1.53
4500	18.37	25.41	11.68	19.59	1.29	0.83	24.21	13.00	1.55
5000	18.25	25.47	11.86	22.05	1.30	0.85	25.28	13.34	1.53
5500	18.10	25.57	12.35	25.24	1.33	0.87	24.32	13.11	1.54
6000	17.94	25.69	12.85	27.65	1.36	0.88	25.41	13.29	1.62
6500	17.69	25.89	12.85	25.14	1.40	0.90	24.89	13.22	1.63
7000	17.46	26.04	11.75	24.36	1.42	0.93	24.28	13.01	1.69
7500	17.18	26.28	10.58	24.91	1.45	0.97	23.89	12.85	1.75
8000	17.00	26.42	9.50	24.61	1.46	1.00	24.04	12.71	1.82
8500	16.88	26.56	9.05	24.67	1.48	1.02	24.07	12.86	1.84
9000	16.86	26.45	9.14	23.16	1.46	1.02	24.47	12.83	1.84
9500	16.85	26.55	9.88	18.83	1.48	1.01	24.78	12.93	1.85
10000	16.51	26.77	11.80	15.22	1.59	0.97	24.86	12.96	2.13
10500	16.43	26.81	11.48	13.44	1.56	0.97	25.48	12.97	1.96
11000	16.22	26.96	12.54	12.01	1.61	0.94	25.58	12.77	1.96
11500	16.02	27.17	12.85	10.61	1.64	0.92	25.31	12.74	2.01
12000	15.76	27.40	11.83	9.20	1.62	0.91	24.75	12.41	2.16
12500	15.38	27.74	9.96	8.06	1.58	0.92	24.35	11.92	2.36
13000	14.96	28.12	8.17	7.51	1.54	0.97	23.72	11.60	2.56
13500	14.66	28.45	6.94	7.45	1.51	1.02	23.55	11.28	2.67
14000	14.48	28.55	6.27	7.64	1.50	1.06	23.16	11.39	2.78
14500	14.30	28.63	6.01	7.81	1.52	1.08	22.71	11.23	2.86
15000	13.68	29.32	5.67	7.37	1.66	1.08	21.44	10.79	3.09
15500	12.40	30.62	5.32	6.48	2.03	1.05	20.27	10.03	3.61
16000	10.12	32.81	6.37	5.80	3.66	0.94	19.39	9.37	4.85

## 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 = 6.25V, Id = 77.79 mA @ Temperature = -45degC

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)
100	7.66	39.18	0.49	6.30	1.99	1.42	34.41	16.91	11.81
200	15.52	31.17	2.08	8.24	1.36	1.25	32.45	16.46	4.51
300	18.08	28.54	4.19	10.64	1.27	1.07	31.55	16.49	2.81
400	19.12	27.33	6.16	12.67	1.23	0.94	32.70	16.61	2.28
500	19.61	26.80	7.78	14.29	1.21	0.86	31.99	16.69	2.05
1000	20.24	25.80	12.52	18.44	1.17	0.73	31.34	17.21	1.64
1500	20.28	25.60	14.19	19.21	1.17	0.71	32.68	17.23	1.59
2000	20.19	25.65	14.35	18.55	1.18	0.72	32.83	17.17	1.62
2500	20.06	25.72	14.09	17.94	1.19	0.73	32.75	17.25	1.54
3000	19.91	25.87	13.75	17.91	1.21	0.75	32.81	17.27	1.56
3500	19.79	25.99	13.84	18.78	1.23	0.77	32.97	17.39	1.59
4000	19.66	26.09	13.82	19.85	1.25	0.79	32.39	17.31	1.57
4500	19.51	26.20	13.83	20.26	1.27	0.80	32.26	17.39	1.59
5000	19.35	26.35	13.94	20.26	1.30	0.82	32.83	17.68	1.59
5500	19.15	26.46	14.41	19.31	1.33	0.83	31.98	17.46	1.63
6000	18.96	26.60	14.74	18.49	1.36	0.84	32.39	17.54	1.71
6500	18.69	26.79	14.48	17.65	1.40	0.86	31.60	17.45	1.71
7000	18.48	26.97	13.06	18.47	1.43	0.90	30.95	17.32	1.77
7500	18.23	27.22	11.78	20.52	1.47	0.94	30.43	17.16	1.83
8000	18.06	27.40	10.63	24.48	1.49	0.97	30.51	16.92	1.89
8500	17.92	27.44	10.13	25.05	1.50	0.99	30.29	16.98	1.94
9000	17.85	27.41	10.27	21.80	1.50	0.99	30.27	16.92	1.94
9500	17.80	27.52	11.05	17.60	1.52	0.97	30.29	16.86	1.97
10000	17.42	27.86	13.14	14.52	1.64	0.94	30.57	16.82	2.21
10500	17.36	27.83	12.66	13.44	1.61	0.94	30.62	16.72	2.03
11000	17.18	27.97	13.65	12.15	1.66	0.92	30.73	16.47	2.03
11500	17.00	28.24	13.59	10.91	1.70	0.91	30.45	16.32	2.13
12000	16.74	28.61	12.07	9.60	1.71	0.91	29.95	15.90	2.26
12500	16.39	28.91	9.98	8.57	1.68	0.93	29.56	15.37	2.48
13000	16.00	29.31	8.20	8.16	1.65	0.98	28.85	14.95	2.69
13500	15.72	29.59	7.04	8.27	1.62	1.04	28.46	14.65	2.83
14000	15.55	29.75	6.40	8.60	1.63	1.09	27.72	14.69	2.95
14500	15.37	29.92	6.08	8.80	1.66	1.11	27.18	14.51	3.01
15000	14.74	30.61	5.66	8.20	1.80	1.12	26.54	13.86	3.35
15500	13.49	31.83	5.26	7.16	2.17	1.09	25.02	13.00	3.77
16000	11.25	33.95	6.29	6.42	3.84	0.98	24.16	12.33	5.15



## 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 = 5V, Id = 53.64 mA @ Temperature = +85degC

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)
100	6.09	37.91	0.56	7.10	2.32	1.49	27.26	13.43	13.78
200	13.43	30.21	1.99	7.57	1.45	1.23	25.68	13.09	5.96
300	15.92	27.59	3.77	8.81	1.33	1.04	25.23	13.07	4.03
400	16.98	26.45	5.39	9.94	1.29	0.93	25.93	13.17	3.34
500	17.50	25.84	6.68	10.82	1.26	0.87	25.66	13.22	3.01
1000	18.22	24.84	10.10	13.01	1.22	0.76	25.42	13.72	2.49
1500	18.27	24.71	11.10	13.52	1.22	0.75	26.15	13.70	2.43
2000	18.19	24.77	11.21	13.56	1.23	0.75	26.10	13.59	2.46
2500	18.06	24.91	11.03	13.49	1.25	0.77	25.85	13.55	2.41
3000	17.94	25.03	10.93	13.95	1.28	0.79	25.92	13.54	2.42
3500	17.85	25.13	11.09	15.14	1.30	0.82	25.95	13.70	2.45
4000	17.75	25.26	11.11	16.58	1.32	0.84	25.52	13.54	2.47
4500	17.63	25.37	11.18	18.28	1.35	0.86	25.53	13.62	2.52
5000	17.50	25.47	11.22	20.38	1.37	0.89	26.29	13.99	2.53
5500	17.31	25.59	11.36	23.55	1.41	0.91	25.50	13.69	2.61
6000	17.07	25.81	11.32	26.89	1.46	0.93	25.85	13.75	2.70
6500	16.80	25.98	10.92	30.66	1.50	0.95	25.25	13.60	2.73
7000	16.57	26.18	10.43	35.50	1.55	0.98	24.80	13.41	2.79
7500	16.32	26.42	10.26	43.92	1.60	1.00	24.33	13.17	2.83
8000	16.14	26.58	9.85	28.78	1.63	1.02	24.82	13.21	2.94
8500	15.97	26.68	9.41	23.21	1.64	1.04	24.76	13.20	3.03
9000	15.81	26.79	8.89	19.93	1.64	1.05	24.69	13.02	3.11
9500	15.70	26.95	8.65	18.74	1.66	1.06	24.88	13.10	3.15
10000	15.48	27.02	8.74	18.43	1.71	1.07	24.86	13.00	3.32
10500	15.53	27.00	9.09	16.77	1.69	1.05	24.89	13.05	3.19
11000	15.30	27.17	10.30	14.25	1.78	1.02	24.84	12.75	3.19
11500	14.96	27.45	10.88	12.11	1.86	0.99	24.51	12.59	3.31
12000	14.52	27.89	10.26	10.70	1.95	0.99	23.93	12.18	3.49
12500	14.02	28.45	8.85	9.87	2.03	1.02	23.35	11.56	3.72
13000	13.49	28.83	7.50	9.22	2.06	1.06	23.17	11.28	3.94
13500	12.94	29.41	6.36	8.48	2.09	1.09	22.81	10.89	4.21
14000	12.35	29.85	5.56	7.58	2.08	1.09	22.30	10.77	4.48
14500	11.75	30.33	5.05	6.80	2.13	1.08	22.02	10.35	4.73
15000	11.00	31.12	5.12	6.18	2.47	1.03	21.06	9.79	5.12
15500	9.80	32.10	6.57	6.02	3.64	0.94	19.83	9.18	5.70
16000	8.19	33.35	11.03	6.00	6.14	0.82	19.10	8.97	6.70

## 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 = 6V, Id = 71.17 mA @ Temperature = +85degC

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)
100	6.35	37.81	0.56	7.14	2.24	1.49	26.87	14.30	14.35
200	13.79	30.37	2.03	7.96	1.45	1.25	26.44	13.90	6.57
300	16.33	27.72	3.91	9.42	1.33	1.06	26.10	13.89	4.43
400	17.40	26.72	5.64	10.71	1.30	0.94	26.57	14.08	3.66
500	17.93	26.10	7.06	11.71	1.27	0.87	26.35	14.16	3.28
1000	18.67	25.18	11.00	14.31	1.23	0.76	26.21	14.54	2.71
1500	18.74	25.05	12.22	14.84	1.23	0.75	26.57	14.62	2.60
2000	18.66	25.12	12.40	14.78	1.24	0.76	26.80	14.61	2.64
2500	18.54	25.23	12.18	14.59	1.26	0.77	26.84	14.73	2.53
3000	18.41	25.41	12.04	14.95	1.28	0.79	26.95	14.82	2.53
3500	18.31	25.52	12.19	16.09	1.31	0.81	26.87	15.01	2.60
4000	18.20	25.60	12.18	17.43	1.33	0.83	26.64	14.93	2.58
4500	18.06	25.82	12.20	18.88	1.37	0.86	26.53	15.08	2.65
5000	17.91	25.90	12.19	20.48	1.39	0.87	27.09	15.50	2.68
5500	17.72	26.01	12.27	22.48	1.42	0.89	26.43	15.13	2.73
6000	17.48	26.29	12.15	24.16	1.48	0.92	26.60	15.30	2.83
6500	17.21	26.43	11.67	26.17	1.53	0.94	26.03	15.12	2.85
7000	16.99	26.65	11.12	27.88	1.57	0.96	25.69	14.87	2.90
7500	16.74	26.86	10.94	28.56	1.63	0.98	25.28	14.56	3.01
8000	16.57	27.02	10.47	28.59	1.66	1.00	25.51	14.65	3.09
8500	16.40	27.21	9.95	25.18	1.68	1.02	25.36	14.63	3.18
9000	16.23	27.30	9.41	22.21	1.69	1.04	25.31	14.48	3.25
9500	16.12	27.46	9.10	21.09	1.71	1.06	25.31	14.47	3.33
10000	15.89	27.67	9.16	20.81	1.79	1.06	25.30	14.29	3.49
10500	15.93	27.65	9.53	18.42	1.78	1.05	25.21	14.43	3.33
11000	15.72	27.83	10.73	15.29	1.86	1.02	25.12	14.06	3.33
11500	15.40	28.21	11.20	12.93	1.97	1.00	24.69	13.83	3.49
12000	14.97	28.72	10.43	11.41	2.08	1.00	24.03	13.30	3.67
12500	14.49	29.10	8.96	10.57	2.13	1.03	23.45	12.55	3.94
13000	13.97	29.65	7.60	9.86	2.20	1.07	23.21	12.23	4.17
13500	13.43	30.20	6.44	9.07	2.24	1.10	22.80	11.73	4.43
14000	12.83	30.71	5.61	8.07	2.26	1.11	22.35	11.53	4.72
14500	12.21	31.26	5.07	7.18	2.31	1.10	22.07	11.10	4.98
15000	11.46	32.02	5.10	6.47	2.66	1.05	21.21	10.32	5.41
15500	10.28	32.91	6.51	6.26	3.84	0.96	19.89	9.78	5.98
16000	8.71	34.07	10.98	6.23	6.39	0.83	19.23	9.52	7.03

## 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 = 49.51 mA @ Temperature = +85degC

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)
100	5.90	37.34	0.56	7.13	2.25	1.49	26.61	12.99	13.68
200	13.16	30.12	1.96	7.40	1.46	1.22	25.00	12.69	5.92
300	15.64	27.52	3.70	8.54	1.34	1.04	24.43	12.71	4.07
400	16.71	26.34	5.25	9.58	1.29	0.93	25.20	12.77	3.30
500	17.24	25.73	6.50	10.40	1.27	0.86	24.87	12.81	3.00
1000	17.96	24.72	9.77	12.47	1.22	0.76	24.65	13.25	2.49
1500	18.02	24.58	10.71	12.97	1.22	0.75	25.30	13.23	2.40
2000	17.94	24.67	10.83	13.03	1.24	0.76	25.24	13.11	2.47
2500	17.81	24.78	10.66	13.00	1.26	0.77	24.97	13.03	2.39
3000	17.69	24.91	10.56	13.46	1.28	0.79	24.99	13.00	2.40
3500	17.61	25.03	10.72	14.64	1.30	0.82	25.07	13.11	2.47
4000	17.52	25.09	10.75	16.05	1.32	0.84	24.64	12.96	2.48
4500	17.41	25.21	10.83	17.73	1.35	0.87	24.62	13.04	2.53
5000	17.28	25.31	10.89	19.82	1.37	0.89	25.53	13.35	2.51
5500	17.10	25.45	11.05	23.05	1.41	0.91	24.69	13.07	2.59
6000	16.86	25.63	11.05	26.72	1.46	0.93	25.17	13.09	2.68
6500	16.59	25.81	10.70	30.51	1.50	0.96	24.52	12.95	2.71
7000	16.36	26.00	10.22	34.34	1.54	0.98	24.05	12.76	2.75
7500	16.11	26.18	10.02	38.43	1.59	1.00	23.58	12.54	2.83
8000	15.93	26.39	9.62	27.52	1.62	1.02	24.13	12.53	2.92
8500	15.75	26.52	9.21	22.32	1.63	1.04	24.10	12.57	3.03
9000	15.61	26.63	8.74	19.39	1.63	1.06	24.08	12.46	3.08
9500	15.50	26.71	8.57	18.12	1.64	1.06	24.33	12.50	3.18
10000	15.29	26.74	8.63	17.67	1.68	1.07	24.31	12.42	3.29
10500	15.34	26.81	9.02	16.28	1.68	1.05	24.35	12.47	3.16
11000	15.09	26.97	10.19	13.94	1.77	1.02	24.34	12.23	3.15
11500	14.75	27.23	10.82	11.88	1.85	0.99	24.04	12.05	3.30
12000	14.31	27.67	10.21	10.48	1.93	0.99	23.43	11.66	3.47
12500	13.82	28.16	8.83	9.61	1.99	1.02	22.83	11.15	3.66
13000	13.27	28.65	7.46	8.91	2.03	1.05	22.67	10.85	3.89
13500	12.72	29.04	6.33	8.20	2.02	1.08	22.34	10.43	4.19
14000	12.14	29.58	5.56	7.37	2.04	1.08	21.86	10.39	4.45
14500	11.57	30.03	5.10	6.69	2.10	1.07	21.57	10.02	4.68
15000	10.81	30.79	5.23	6.14	2.45	1.02	20.53	9.41	5.04
15500	9.54	31.83	6.78	6.00	3.69	0.93	19.29	8.96	5.69
16000	7.96	33.11	11.15	5.89	6.10	0.81	18.55	8.67	6.70

## 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 = 6.25V, Id = 75.48 mA @ Temperature = +85degC

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)
100	6.21	37.76	0.56	7.26	2.27	1.50	26.82	14.72	14.69
200	13.63	30.42	2.01	7.99	1.47	1.26	26.70	14.25	6.90
300	16.17	27.82	3.88	9.38	1.35	1.06	26.48	14.17	4.75
400	17.26	26.68	5.60	10.63	1.30	0.95	26.82	14.32	3.87
500	17.81	26.09	7.03	11.63	1.28	0.88	26.53	14.32	3.45
1000	18.59	25.21	11.09	14.25	1.24	0.77	26.21	14.63	2.82
1500	18.67	25.10	12.37	14.81	1.24	0.75	26.30	14.72	2.69
2000	18.60	25.15	12.57	14.79	1.25	0.76	26.45	14.70	2.71
2500	18.48	25.29	12.37	14.58	1.27	0.77	26.52	14.82	2.63
3000	18.36	25.43	12.22	14.92	1.29	0.79	26.68	14.98	2.66
3500	18.26	25.57	12.37	16.04	1.32	0.81	26.56	15.15	2.70
4000	18.14	25.67	12.35	17.32	1.34	0.83	26.36	15.05	2.71
4500	18.01	25.80	12.36	18.74	1.37	0.86	26.29	15.21	2.76
5000	17.87	25.97	12.35	20.27	1.40	0.88	26.76	15.68	2.77
5500	17.67	26.08	12.40	22.18	1.44	0.89	26.16	15.30	2.84
6000	17.44	26.32	12.27	23.88	1.49	0.92	26.36	15.49	2.93
6500	17.17	26.47	11.77	25.80	1.54	0.94	25.76	15.28	2.97
7000	16.94	26.67	11.23	27.40	1.58	0.96	25.42	15.03	3.00
7500	16.70	27.00	11.05	28.26	1.66	0.98	25.05	14.73	3.10
8000	16.53	27.13	10.59	28.97	1.68	1.00	25.26	14.82	3.18
8500	16.36	27.31	10.05	25.78	1.71	1.02	25.15	14.83	3.28
9000	16.19	27.40	9.50	22.66	1.72	1.04	25.02	14.68	3.35
9500	16.07	27.52	9.20	21.51	1.74	1.05	24.97	14.68	3.42
10000	15.86	27.76	9.23	21.23	1.82	1.06	24.96	14.48	3.57
10500	15.89	27.72	9.62	18.76	1.81	1.05	24.93	14.61	3.43
11000	15.69	27.96	10.82	15.57	1.90	1.02	24.80	14.27	3.44
11500	15.37	28.35	11.27	13.10	2.02	1.00	24.31	13.99	3.59
12000	14.93	28.81	10.47	11.57	2.12	1.00	23.57	13.48	3.79
12500	14.45	29.22	8.98	10.67	2.18	1.03	23.04	12.76	4.02
13000	13.93	29.79	7.63	9.93	2.26	1.07	22.85	12.32	4.28
13500	13.38	30.34	6.47	9.11	2.30	1.10	22.49	11.88	4.59
14000	12.78	31.01	5.63	8.09	2.36	1.11	21.99	11.65	4.89
14500	12.16	31.44	5.08	7.18	2.38	1.10	21.70	11.19	5.15
15000	11.39	32.17	5.11	6.45	2.73	1.05	20.67	10.38	5.48
15500	10.22	33.16	6.55	6.23	3.99	0.96	19.40	9.74	6.18
16000	8.68	34.34	10.99	6.20	6.61	0.83	18.82	9.56	7.17