

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: Id = 16mA, Vd = 3.49V @ Temperature = +25degC

FREQ (MHz)	Gain (dB)	Isolation (dB)	Input Return Loss (dB)	Output Return Loss (dB)	Stability		IP-3 Output (dBm)	1dB Comp. Output (dBm)	Noise Figure (dB)
					K	Measure			
10.0	21.96	24.11	37.8	30.26	1.03	0.39	18.70	5.10	2.14
20.0	21.93	24.15	34.86	31.43	1.03	0.40	22.49	4.70	2.12
30.0	21.89	24.15	34.16	31.21	1.03	0.41	20.51	4.47	2.14
40.0	21.86	24.15	33.4	31.59	1.03	0.41	19.67	3.55	2.06
50.0	21.86	24.23	33.46	31.79	1.04	0.42	19.89	3.78	2.05
60.0	21.86	24.17	33.71	31.72	1.03	0.41	20.48	4.18	2.15
70.0	21.86	24.23	34.13	31.20	1.04	0.42	18.97	4.24	2.08
80.0	21.86	24.16	33.94	31.12	1.03	0.41	18.68	3.94	2.01
90.0	21.84	24.17	33.35	31.07	1.03	0.42	19.11	4.17	2.01
100.0	21.83	24.19	32.87	31.19	1.04	0.42	18.01	4.26	2.21
200.0	21.74	24.18	31.67	30.76	1.04	0.43	18.25	3.79	1.98
300.0	21.64	24.14	30.92	30.25	1.04	0.44	18.62	3.60	2.24
400.0	21.52	24.14	30.24	29.51	1.04	0.45	18.75	3.89	2.15
500.0	21.35	24.11	29.42	28.58	1.05	0.47	18.06	3.74	2.23
600.0	21.18	24.07	28.86	27.80	1.05	0.49	18.04	3.77	2.21
700.0	20.98	24.00	28.61	26.97	1.06	0.50	18.41	3.96	2.16
800.0	20.76	23.90	28.38	26.07	1.06	0.51	18.79	4.01	2.15
900.0	20.51	23.86	28.45	25.30	1.07	0.54	18.14	3.45	2.18
1000.0	20.27	23.80	28.39	24.63	1.08	0.56	17.52	3.69	2.09
1200.0	19.77	23.58	28.96	23.28	1.09	0.58	19.17	3.88	2.17
1400.0	19.24	23.42	30.03	22.20	1.11	0.62	19.23	4.08	2.23
1600.0	18.70	23.17	30.44	21.28	1.13	0.64	19.27	4.08	2.23
1800.0	18.18	22.94	29.82	20.58	1.14	0.66	20.42	4.69	2.17
2000.0	17.67	22.67	28.21	19.78	1.16	0.68	19.86	4.37	2.17
2200.0	17.17	22.44	26.12	19.28	1.17	0.70	19.86	4.05	2.17
2400.0	16.70	22.18	24.11	18.82	1.18	0.71	20.65	4.89	2.22
2600.0	16.24	21.95	22.44	18.32	1.20	0.73	20.75	5.06	2.27
2800.0	15.79	21.72	21.13	17.96	1.21	0.74	20.79	5.13	2.38
3000.0	15.40	21.44	19.61	17.58	1.22	0.75	20.42	5.44	2.30
3200.0	15.00	21.21	18.49	17.18	1.22	0.76	19.99	5.20	2.32
3400.0	14.57	21.00	17.9	16.89	1.24	0.78	19.62	5.18	2.31
3600.0	14.22	20.77	17.02	16.80	1.24	0.79	19.34	5.14	2.37
3800.0	13.91	20.43	16.01	16.29	1.23	0.79	19.32	5.05	2.37
4000.0	13.59	20.16	15.25	15.67	1.23	0.79	18.90	5.08	2.38
4200.0	13.20	20.17	15.25	15.92	1.27	0.81	18.25	4.92	2.48
4400.0	12.90	19.79	14.29	14.92	1.24	0.81	18.05	4.76	2.51
4600.0	12.58	19.65	14	14.81	1.26	0.82	17.93	4.50	2.61
4800.0	12.26	19.63	13.82	14.73	1.29	0.83	17.83	4.33	2.67
5000.0	11.77	19.43	13.52	13.74	1.31	0.83	17.06	4.31	2.73
5200.0	11.79	19.06	12.33	13.78	1.25	0.84	17.09	3.94	2.80
5400.0	11.53	19.49	12.86	14.80	1.34	0.87	16.31	3.78	2.85
5600.0	11.42	18.79	11.29	13.53	1.23	0.86	16.16	3.31	2.82
5800.0	11.28	18.39	10.45	12.87	1.18	0.86	15.94	3.11	2.89
6000.0	10.85	18.67	10.82	13.15	1.26	0.88	15.31	2.90	3.12

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: Id = 12mA, Vd = 3.48V @ 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)
10.0	19.74	22.77	14.28	16.02	1.05	0.47	21.56	0.68	2.04
20.0	19.68	22.57	13.98	15.73	1.04	0.45	20.23	0.36	2.33
30.0	19.63	22.58	13.85	15.74	1.04	0.46	23.25	0.18	2.27
40.0	19.60	22.61	13.73	15.65	1.05	0.47	26.10	-0.50	2.16
50.0	19.60	22.58	13.78	15.63	1.05	0.46	23.85	-0.38	2.22
60.0	19.60	22.62	13.81	15.66	1.05	0.47	23.99	-0.08	2.32
70.0	19.60	22.59	13.84	15.73	1.05	0.46	19.06	0.03	2.21
80.0	19.60	22.61	13.83	15.78	1.05	0.47	18.35	-0.19	2.13
90.0	19.58	22.63	13.78	15.77	1.05	0.47	19.30	-0.05	2.15
100.0	19.57	22.62	13.75	15.74	1.05	0.47	17.81	0.01	2.40
200.0	19.50	22.55	13.76	15.83	1.05	0.47	17.81	-0.36	2.06
300.0	19.44	22.59	13.88	15.93	1.05	0.49	17.28	-0.53	2.42
400.0	19.38	22.56	14.00	16.14	1.05	0.49	17.85	-0.32	2.26
500.0	19.26	22.55	14.12	16.29	1.06	0.51	16.42	-0.51	2.35
600.0	19.15	22.52	14.33	16.51	1.06	0.52	15.89	-0.45	2.39
700.0	19.04	22.48	14.55	16.80	1.06	0.53	16.04	-0.37	2.27
800.0	18.88	22.44	14.73	17.10	1.06	0.55	15.77	-0.37	2.34
900.0	18.72	22.37	14.95	17.36	1.07	0.56	15.56	-0.84	2.28
1000.0	18.55	22.34	15.20	17.73	1.07	0.58	14.88	-0.61	2.22
1200.0	18.22	22.22	15.65	18.37	1.08	0.61	16.12	-0.57	2.37
1400.0	17.82	22.11	16.05	18.84	1.10	0.64	16.13	-0.46	2.36
1600.0	17.41	21.99	16.21	19.11	1.11	0.67	16.23	-0.47	2.36
1800.0	17.00	21.83	16.35	19.28	1.12	0.69	17.67	0.09	2.28
2000.0	16.58	21.71	16.18	19.22	1.14	0.72	17.04	-0.11	2.23
2200.0	16.16	21.58	15.90	19.02	1.15	0.74	17.39	-0.38	2.26
2400.0	15.76	21.47	15.59	18.76	1.17	0.76	18.45	0.51	2.18
2600.0	15.36	21.36	15.17	18.43	1.18	0.78	18.69	0.75	2.38
2800.0	14.96	21.24	14.82	18.27	1.20	0.80	19.67	0.95	2.47
3000.0	14.60	21.05	14.24	17.76	1.21	0.82	19.82	1.51	2.38
3200.0	14.24	20.92	13.78	17.34	1.22	0.83	19.94	1.33	2.31
3400.0	13.85	20.92	13.58	17.22	1.25	0.85	19.91	1.43	2.33
3600.0	13.52	20.77	13.16	16.99	1.26	0.87	19.76	1.62	2.40
3800.0	13.23	20.55	12.60	16.43	1.25	0.87	20.03	1.65	2.40
4000.0	12.92	20.37	12.17	15.85	1.25	0.88	19.77	1.95	2.33
4200.0	12.54	20.50	12.23	16.19	1.31	0.90	18.93	1.86	2.47
4400.0	12.26	20.19	11.64	15.26	1.29	0.91	18.72	1.98	2.56
4600.0	11.95	20.19	11.49	15.13	1.32	0.92	18.66	1.66	2.65
4800.0	11.63	20.23	11.37	15.09	1.36	0.93	18.49	1.61	2.69
5000.0	11.16	20.09	11.26	14.33	1.39	0.93	17.44	1.99	2.80
5200.0	11.17	19.85	10.32	14.02	1.33	0.95	16.89	1.57	2.82
5400.0	10.88	20.53	10.76	15.03	1.48	0.96	16.26	1.62	2.90
5600.0	10.79	19.75	9.51	13.59	1.32	0.97	16.26	1.14	2.87
5800.0	10.64	19.40	8.85	12.77	1.26	0.98	15.82	0.95	2.90
6000.0	10.20	19.78	9.16	13.21	1.38	0.99	15.24	0.93	3.14

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: Id = 20mA, Vd = 3.5V @ Temperature = +25degC

FREQ (MHz)	Gain (dB)	Isolation (dB)	Input Return Loss (dB)	Output Return Loss (dB)	Stability		IP-3 Output (dBm)	1dB Comp. Output (dBm)	Noise Figure (dB)
					K	Measure			
10.0	23.10	25.06	20.11	16.74	1.02	0.33	22.04	8.22	2.18
20.0	23.08	25.39	20.15	16.70	1.03	0.38	22.44	7.76	2.03
30.0	23.06	25.36	20.37	16.69	1.03	0.38	22.32	7.53	2.07
40.0	23.04	25.29	20.45	16.70	1.03	0.37	20.67	6.46	2.00
50.0	23.03	25.35	20.44	16.74	1.03	0.38	20.58	6.71	2.01
60.0	23.03	25.32	20.44	16.73	1.03	0.38	21.97	7.18	2.04
70.0	23.02	25.31	20.38	16.71	1.03	0.38	20.98	7.20	2.01
80.0	23.02	25.34	20.36	16.67	1.03	0.38	20.41	6.93	1.98
90.0	23.00	25.30	20.43	16.68	1.03	0.38	21.24	7.16	1.95
100.0	22.99	25.33	20.53	16.70	1.03	0.38	19.85	7.29	2.07
200.0	22.89	25.30	20.66	16.74	1.03	0.39	20.33	6.72	1.95
300.0	22.76	25.31	20.62	16.83	1.04	0.41	20.46	6.52	2.15
400.0	22.61	25.24	20.60	16.89	1.04	0.43	20.92	6.89	2.11
500.0	22.40	25.15	20.57	16.96	1.04	0.44	20.28	6.81	2.15
600.0	22.18	25.06	20.56	17.01	1.04	0.46	20.69	6.76	2.19
700.0	21.94	25.01	20.63	17.03	1.05	0.49	21.21	6.99	2.10
800.0	21.67	24.87	20.72	17.04	1.06	0.50	21.20	7.07	2.09
900.0	21.38	24.76	21.03	17.07	1.06	0.52	20.93	6.46	2.11
1000.0	21.09	24.63	21.21	17.08	1.07	0.54	20.36	6.68	2.06
1200.0	20.50	24.32	22.02	17.03	1.08	0.57	21.99	6.96	2.17
1400.0	19.89	24.08	23.20	16.96	1.10	0.60	21.69	7.09	2.15
1600.0	19.30	23.75	25.06	16.93	1.12	0.62	22.04	7.11	2.16
1800.0	18.71	23.41	27.58	16.89	1.13	0.64	22.58	7.67	2.15
2000.0	18.16	23.10	31.78	16.70	1.15	0.66	22.25	7.28	2.09
2200.0	17.63	22.78	41.67	16.64	1.16	0.67	22.19	6.91	2.16
2400.0	17.13	22.47	40.54	16.54	1.17	0.69	22.32	7.63	2.20
2600.0	16.65	22.13	31.72	16.36	1.18	0.69	22.01	7.62	2.27
2800.0	16.18	21.86	27.82	16.24	1.20	0.71	21.61	7.58	2.39
3000.0	15.77	21.48	24.38	16.11	1.20	0.71	21.08	7.66	2.32
3200.0	15.36	21.20	22.38	15.89	1.20	0.72	20.71	7.31	2.35
3400.0	14.92	20.99	21.24	15.68	1.22	0.73	20.30	7.13	2.29
3600.0	14.56	20.69	19.87	15.71	1.22	0.74	19.75	6.93	2.40
3800.0	14.24	20.32	18.44	15.37	1.21	0.74	19.61	6.71	2.39
4000.0	13.91	20.02	17.29	14.85	1.20	0.74	19.27	6.61	2.39
4200.0	13.51	19.93	17.28	15.08	1.23	0.76	18.46	6.29	2.47
4400.0	13.21	19.53	15.98	14.18	1.21	0.75	18.29	6.01	2.52
4600.0	12.89	19.35	15.56	14.10	1.22	0.76	18.07	5.80	2.63
4800.0	12.57	19.26	15.35	14.02	1.24	0.78	17.99	5.52	2.64
5000.0	12.08	19.03	14.80	13.01	1.25	0.77	17.15	5.28	2.69
5200.0	12.09	18.68	13.53	13.20	1.20	0.78	17.42	5.02	2.79
5400.0	11.82	19.02	14.29	14.14	1.28	0.81	16.55	4.77	2.83
5600.0	11.73	18.31	12.38	13.04	1.19	0.79	16.35	4.35	2.82
5800.0	11.59	17.93	11.41	12.49	1.14	0.79	16.15	4.10	2.90
6000.0	11.16	18.16	11.82	12.63	1.21	0.81	15.66	3.86	3.17

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: Id = 16mA, Vd = 3.69V @ 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)
10.0	22.72	24.78	25.31	19.43	1.02	0.36	17.78	5.02	1.70
20.0	22.67	24.86	26.74	20.00	1.03	0.38	20.99	4.68	1.70
30.0	22.62	24.90	27.54	20.05	1.03	0.39	19.11	4.44	1.69
40.0	22.58	24.88	28.47	20.26	1.03	0.40	17.99	3.49	1.58
50.0	22.58	24.92	28.61	20.44	1.03	0.40	18.30	3.72	1.61
60.0	22.58	24.85	28.70	20.53	1.03	0.40	19.33	4.14	1.70
70.0	22.58	24.90	28.70	20.49	1.03	0.40	17.99	4.18	1.62
80.0	22.58	24.89	28.93	20.62	1.03	0.40	18.26	3.89	1.56
90.0	22.56	24.91	29.57	20.75	1.03	0.41	18.35	4.11	1.57
100.0	22.54	24.90	30.35	20.93	1.03	0.41	17.25	4.20	1.76
200.0	22.46	24.88	31.02	21.34	1.04	0.42	17.61	3.64	1.53
300.0	22.35	24.79	27.42	20.13	1.04	0.42	17.73	3.55	1.75
400.0	22.24	24.82	25.62	19.40	1.04	0.43	18.42	3.92	1.69
500.0	22.06	24.81	25.55	19.47	1.04	0.45	17.68	3.81	1.75
600.0	21.88	24.72	25.48	19.66	1.05	0.47	17.49	3.80	1.76
700.0	21.69	24.59	25.53	19.71	1.05	0.48	18.04	3.95	1.68
800.0	21.46	24.50	25.87	19.84	1.05	0.49	18.23	3.99	1.66
900.0	21.21	24.40	25.97	19.96	1.06	0.51	17.66	3.38	1.47
1000.0	20.96	24.29	25.55	19.87	1.07	0.53	17.20	3.58	1.64
1200.0	20.45	24.07	26.06	19.12	1.08	0.55	18.76	3.89	1.72
1400.0	19.90	23.83	26.15	18.37	1.09	0.58	18.77	4.07	1.73
1600.0	19.36	23.54	28.07	18.19	1.11	0.60	19.00	4.11	1.72
1800.0	18.83	23.23	31.81	18.27	1.12	0.62	20.02	4.67	1.69
2000.0	18.31	22.94	35.58	17.75	1.13	0.64	19.26	4.31	1.65
2200.0	17.82	22.67	34.78	17.38	1.15	0.65	19.47	4.12	1.66
2400.0	17.34	22.34	31.80	17.33	1.16	0.66	20.30	4.99	1.71
2600.0	16.89	22.05	28.12	17.27	1.16	0.68	20.56	5.07	1.78
2800.0	16.46	21.80	25.60	17.53	1.18	0.69	20.74	5.21	1.89
3000.0	16.06	21.42	23.70	17.34	1.17	0.70	20.83	5.58	1.76
3200.0	15.68	21.13	22.29	17.07	1.18	0.70	20.50	5.33	1.76
3400.0	15.29	20.89	21.11	16.54	1.19	0.71	20.46	5.47	1.81
3600.0	14.92	20.63	19.91	16.48	1.19	0.72	20.10	5.53	1.81
3800.0	14.62	20.28	18.73	16.19	1.18	0.72	19.94	5.49	1.79
4000.0	14.30	20.01	17.86	15.96	1.18	0.72	19.77	5.61	1.80
4200.0	13.98	19.77	17.29	15.64	1.18	0.73	19.15	5.42	1.89
4400.0	13.65	19.49	16.47	14.85	1.18	0.73	18.83	5.35	1.87
4600.0	13.35	19.31	15.66	14.57	1.19	0.74	18.76	5.09	1.99
4800.0	13.11	19.12	15.27	14.34	1.18	0.74	18.82	5.06	2.01
5000.0	12.65	19.15	15.23	13.99	1.23	0.76	18.13	5.20	2.09
5200.0	12.56	18.63	13.74	13.31	1.17	0.74	18.18	4.80	2.13
5400.0	12.25	18.64	14.04	13.55	1.20	0.76	17.54	4.82	2.18
5600.0	12.17	18.15	12.42	12.77	1.14	0.75	17.45	4.34	2.19
5800.0	12.02	18.04	11.99	12.88	1.14	0.76	17.21	4.10	2.29
6000.0	11.70	17.87	11.70	12.58	1.15	0.76	16.54	3.97	2.43

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: Id = 12mA, Vd = 3.67V @ 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)
10.0	20.57	23.28	17.30	21.30	1.04	0.46	17.85	0.54	1.57
20.0	20.50	23.32	16.72	20.69	1.05	0.47	25.13	0.20	1.89
30.0	20.42	23.20	16.44	20.48	1.04	0.47	19.99	0.02	1.83
40.0	20.37	23.18	16.16	20.24	1.04	0.47	19.77	-0.66	1.71
50.0	20.38	23.11	16.17	20.09	1.04	0.46	20.32	-0.55	1.80
60.0	20.38	23.18	16.16	20.02	1.04	0.47	19.80	-0.25	1.95
70.0	20.38	23.17	16.15	20.06	1.04	0.47	16.98	-0.17	1.80
80.0	20.38	23.22	16.07	20.05	1.05	0.47	16.65	-0.38	1.69
90.0	20.35	23.21	15.91	19.90	1.05	0.47	17.00	-0.25	1.75
100.0	20.33	23.19	15.78	19.68	1.05	0.47	15.80	-0.19	2.04
200.0	20.26	23.19	15.53	19.48	1.05	0.48	15.76	-0.60	1.62
300.0	20.23	23.15	16.37	20.71	1.05	0.48	15.73	-0.71	2.00
400.0	20.18	23.14	17.12	21.82	1.05	0.49	15.93	-0.44	1.82
500.0	20.06	23.07	17.15	21.81	1.05	0.50	15.00	-0.61	1.93
600.0	19.95	23.04	17.31	21.81	1.06	0.51	14.60	-0.62	1.92
700.0	19.83	22.98	17.54	22.05	1.06	0.52	14.95	-0.52	1.86
800.0	19.66	22.98	17.54	22.26	1.06	0.54	14.74	-0.56	1.88
900.0	19.49	22.91	17.67	22.23	1.07	0.55	14.22	-1.05	1.79
1000.0	19.32	22.89	18.04	22.75	1.07	0.56	13.82	-0.85	1.74
1200.0	18.99	22.71	19.06	24.08	1.08	0.58	14.89	-0.74	1.86
1400.0	18.59	22.60	20.29	23.88	1.10	0.61	14.84	-0.61	1.88
1600.0	18.16	22.45	20.41	23.15	1.11	0.64	15.02	-0.63	1.91
1800.0	17.75	22.28	20.20	23.01	1.12	0.66	16.07	-0.09	1.81
2000.0	17.31	22.04	19.90	22.28	1.13	0.68	15.49	-0.37	1.72
2200.0	16.90	21.94	19.23	21.20	1.15	0.70	15.75	-0.52	1.69
2400.0	16.48	21.76	18.72	20.57	1.16	0.72	16.90	0.34	1.85
2600.0	16.08	21.58	17.80	20.00	1.17	0.74	17.04	0.52	1.84
2800.0	15.69	21.43	17.00	19.95	1.18	0.76	17.78	0.73	1.89
3000.0	15.34	21.24	16.47	19.31	1.19	0.77	18.45	1.24	1.82
3200.0	14.99	21.04	16.00	18.67	1.20	0.78	18.39	1.06	1.78
3400.0	14.63	20.87	15.64	18.03	1.21	0.79	18.92	1.31	1.74
3600.0	14.28	20.71	15.09	17.77	1.22	0.80	19.19	1.50	1.79
3800.0	14.00	20.46	14.48	17.20	1.21	0.81	19.53	1.62	1.82
4000.0	13.70	20.33	14.05	16.96	1.22	0.82	19.83	1.99	1.75
4200.0	13.39	20.17	13.76	16.61	1.23	0.83	19.23	1.86	1.87
4400.0	13.07	19.94	13.39	15.79	1.23	0.83	19.08	1.97	1.91
4600.0	12.79	19.79	12.93	15.45	1.24	0.84	19.51	1.74	2.02
4800.0	12.55	19.69	12.62	15.14	1.24	0.85	19.67	1.88	2.09
5000.0	12.10	19.79	12.84	15.05	1.31	0.86	18.95	2.28	2.13
5200.0	11.99	19.32	11.62	13.99	1.23	0.86	18.45	2.01	2.21
5400.0	11.65	19.45	12.01	14.34	1.30	0.87	17.79	2.30	2.24
5600.0	11.59	18.97	10.57	13.33	1.21	0.87	18.03	1.63	2.24
5800.0	11.45	18.90	10.19	13.34	1.20	0.89	17.40	1.49	2.31
6000.0	11.14	18.83	10.11	13.19	1.22	0.89	16.76	1.73	2.38

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: Id = 20mA, Vd = 3.7V @ Temperature = -45degC

FREQ (MHz)	Gain (dB)	Isolation (dB)	Input Return Loss (dB)	Output Return Loss (dB)	Stability		IP-3 Output (dBm)	1dB Comp. Output (dBm)	Noise Figure (dB)
					K	Measure			
10.0	23.74	25.92	15.71	13.26	1.02	0.32	19.05	8.25	1.75
20.0	23.72	26.20	15.98	13.37	1.03	0.36	25.92	7.78	1.59
30.0	23.68	26.06	16.22	13.44	1.03	0.35	20.93	7.57	1.65
40.0	23.66	26.09	16.37	13.50	1.03	0.36	20.42	6.45	1.56
50.0	23.65	26.03	16.43	13.56	1.03	0.35	20.26	6.72	1.53
60.0	23.65	26.04	16.47	13.61	1.03	0.35	21.30	7.21	1.60
70.0	23.65	26.06	16.49	13.63	1.03	0.36	20.26	7.23	1.57
80.0	23.65	26.08	16.57	13.68	1.03	0.36	20.54	6.91	1.54
90.0	23.63	26.08	16.73	13.74	1.03	0.36	21.14	7.18	1.50
100.0	23.62	26.06	16.87	13.81	1.03	0.36	19.77	7.28	1.63
200.0	23.52	26.00	17.22	14.04	1.03	0.37	20.18	6.66	1.56
300.0	23.37	25.92	16.51	13.62	1.03	0.38	20.59	6.52	1.71
400.0	23.21	25.92	16.13	13.38	1.03	0.40	21.06	7.00	1.66
500.0	23.01	25.81	16.32	13.56	1.03	0.42	20.54	6.94	1.71
600.0	22.79	25.66	16.54	13.81	1.03	0.43	20.52	6.82	1.72
700.0	22.55	25.55	16.75	13.99	1.04	0.45	20.85	7.08	1.68
800.0	22.28	25.41	17.14	14.23	1.04	0.47	21.23	7.13	1.64
900.0	21.99	25.21	17.49	14.47	1.04	0.49	20.51	6.48	1.64
1000.0	21.69	25.09	17.57	14.60	1.05	0.51	20.21	6.66	1.57
1200.0	21.09	24.74	18.17	14.56	1.06	0.54	21.71	7.04	1.68
1400.0	20.47	24.41	18.48	14.48	1.07	0.57	21.77	7.18	1.68
1600.0	19.88	23.99	19.62	14.70	1.08	0.58	22.34	7.22	1.72
1800.0	19.30	23.65	21.32	15.04	1.10	0.60	23.08	7.74	1.65
2000.0	18.74	23.24	22.97	14.93	1.11	0.61	22.31	7.33	1.61
2200.0	18.22	22.87	24.99	14.92	1.12	0.62	22.56	7.12	1.66
2400.0	17.72	22.52	27.22	15.10	1.13	0.63	22.92	7.90	1.68
2600.0	17.25	22.13	30.07	15.24	1.14	0.64	22.79	7.89	1.76
2800.0	16.80	21.81	32.82	15.60	1.15	0.65	22.70	7.92	1.85
3000.0	16.38	21.44	30.28	15.64	1.15	0.66	22.50	8.10	1.74
3200.0	15.99	21.09	27.51	15.56	1.15	0.66	21.60	7.78	1.75
3400.0	15.58	20.83	25.16	15.22	1.16	0.67	21.38	7.75	1.77
3600.0	15.21	20.52	23.44	15.28	1.17	0.68	20.92	7.60	1.80
3800.0	14.90	20.14	21.64	15.15	1.16	0.67	20.60	7.44	1.83
4000.0	14.57	19.83	20.36	14.98	1.16	0.67	20.39	7.39	1.80
4200.0	14.24	19.59	19.49	14.72	1.16	0.68	19.80	7.09	1.87
4400.0	13.91	19.31	18.34	14.02	1.16	0.68	19.29	6.85	1.92
4600.0	13.60	19.04	17.32	13.75	1.16	0.68	19.30	6.65	2.01
4800.0	13.36	18.82	16.83	13.62	1.15	0.68	19.12	6.56	2.03
5000.0	12.91	18.82	16.67	13.23	1.19	0.70	18.38	6.28	2.08
5200.0	12.80	18.30	14.95	12.67	1.14	0.68	18.54	6.01	2.15
5400.0	12.48	18.28	15.29	12.85	1.17	0.70	17.78	5.84	2.21
5600.0	12.41	17.79	13.45	12.17	1.12	0.68	17.81	5.46	2.17
5800.0	12.26	17.65	13.03	12.30	1.11	0.69	17.43	5.18	2.26
6000.0	11.95	17.52	12.76	12.12	1.12	0.70	16.87	4.99	2.44

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: Id = 16mA, Vd = 3.33V @ Temperature = +85degC

FREQ (MHz)	Gain (dB)	Isolation (dB)	Input Return Loss (dB)	Output Return Loss (dB)	Stability		IP-3 Output (dBm)	1dB Comp. Output (dBm)	Noise Figure (dB)
					K	Measure			
10.0	21.37	23.72	24.81	33.12	1.04	0.42	20.40	5.13	2.55
20.0	21.35	23.64	24.09	31.23	1.03	0.41	22.59	4.77	2.56
30.0	21.32	23.70	24.09	31.91	1.04	0.42	21.13	4.58	2.57
40.0	21.30	23.71	23.86	31.93	1.04	0.43	21.14	3.63	2.51
50.0	21.30	23.67	24.04	32.10	1.04	0.42	20.88	3.86	2.47
60.0	21.29	23.73	24.23	32.56	1.04	0.43	21.84	4.27	2.54
70.0	21.29	23.67	24.49	33.33	1.04	0.42	19.70	4.36	2.47
80.0	21.29	23.68	24.61	34.17	1.04	0.42	19.47	4.05	2.44
90.0	21.27	23.69	24.64	34.60	1.04	0.43	19.79	4.28	2.42
100.0	21.26	23.69	24.67	34.93	1.04	0.43	18.48	4.36	2.55
200.0	21.18	23.67	25.44	36.33	1.04	0.44	19.08	3.96	2.34
300.0	21.08	23.70	24.70	32.91	1.04	0.46	19.13	3.72	2.64
400.0	20.95	23.64	23.80	31.34	1.05	0.46	19.85	3.98	2.54
500.0	20.78	23.69	23.19	30.29	1.05	0.49	18.51	3.81	2.65
600.0	20.61	23.62	23.04	29.19	1.06	0.50	18.65	3.82	2.64
700.0	20.41	23.55	22.85	28.32	1.06	0.52	18.95	4.00	2.59
800.0	20.19	23.51	22.60	27.59	1.07	0.54	19.02	4.04	2.59
900.0	19.95	23.45	22.37	26.97	1.08	0.56	18.48	3.47	2.89
1000.0	19.70	23.39	22.30	26.55	1.09	0.58	17.92	3.72	2.51
1200.0	19.21	23.23	22.37	25.22	1.10	0.61	19.27	3.88	2.60
1400.0	18.68	23.09	22.76	24.15	1.12	0.64	19.54	4.06	2.63
1600.0	18.15	22.92	22.82	22.84	1.14	0.67	19.81	4.08	2.66
1800.0	17.63	22.70	22.48	21.85	1.16	0.69	20.75	4.69	2.65
2000.0	17.11	22.44	21.86	20.79	1.17	0.71	20.16	4.46	2.59
2200.0	16.62	22.27	21.04	19.69	1.19	0.73	20.24	4.04	2.59
2400.0	16.13	22.05	20.05	19.14	1.21	0.75	20.67	4.83	2.64
2600.0	15.67	21.80	18.96	18.59	1.22	0.77	20.31	4.98	2.78
2800.0	15.23	21.64	17.98	18.13	1.24	0.78	20.21	4.99	2.87
3000.0	14.80	21.41	17.07	17.72	1.25	0.80	19.68	5.26	2.80
3200.0	14.41	21.16	16.20	17.25	1.25	0.81	19.25	4.97	2.78
3400.0	13.99	21.06	15.67	17.08	1.28	0.83	18.75	4.86	2.83
3600.0	13.63	20.84	14.94	16.82	1.28	0.84	18.51	4.77	2.84
3800.0	13.31	20.53	14.15	16.36	1.27	0.84	18.29	4.54	2.87
4000.0	12.96	20.33	13.60	15.88	1.28	0.85	17.96	4.49	2.90
4200.0	12.64	20.10	13.05	15.37	1.28	0.86	17.40	4.38	2.96
4400.0	12.31	19.98	12.64	15.25	1.29	0.87	17.19	4.15	3.08
4600.0	12.00	19.74	11.98	14.77	1.28	0.88	16.91	3.81	3.15
4800.0	11.72	19.59	11.63	14.38	1.28	0.89	16.68	3.60	3.21
5000.0	11.43	19.48	11.29	14.16	1.29	0.90	15.85	3.46	3.19
5200.0	11.19	19.25	10.62	13.59	1.27	0.91	15.91	3.12	3.35
5400.0	10.83	19.12	10.39	13.02	1.28	0.91	15.42	2.87	3.42
5600.0	10.71	18.82	9.53	12.56	1.23	0.92	15.14	2.52	3.42
5800.0	10.49	18.69	9.09	12.22	1.21	0.94	14.76	2.15	3.52
6000.0	10.26	18.18	8.39	11.40	1.14	0.94	14.50	1.99	3.67

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: Id = 12mA, Vd = 3.31V @ Temperature = +85degC

FREQ (MHz)	Gain (dB)	Isolation (dB)	Input Return Loss (dB)	Output Return Loss (dB)	Stability		IP-3 Output (dBm)	1dB Comp. Output (dBm)	Noise Figure (dB)
					K	Measure			
10.0	19.11	22.24	12.72	13.71	1.05	0.46	21.59	0.87	2.52
20.0	19.08	22.12	12.53	13.57	1.04	0.44	18.56	0.56	2.78
30.0	19.04	22.29	12.50	13.61	1.05	0.47	19.79	0.37	2.74
40.0	19.02	22.24	12.45	13.57	1.05	0.47	20.15	-0.32	2.62
50.0	19.02	22.22	12.50	13.60	1.05	0.46	19.47	-0.19	2.65
60.0	19.02	22.21	12.55	13.64	1.05	0.46	20.52	0.10	2.73
70.0	19.02	22.21	12.60	13.74	1.05	0.46	19.51	0.22	2.62
80.0	19.02	22.20	12.62	13.82	1.05	0.46	18.66	0.00	2.54
90.0	19.00	22.24	12.64	13.87	1.05	0.47	20.47	0.13	2.55
100.0	19.00	22.19	12.65	13.89	1.05	0.47	19.01	0.21	2.77
200.0	18.95	22.19	12.93	14.27	1.05	0.48	18.99	-0.11	2.47
300.0	18.88	22.21	12.89	14.18	1.05	0.49	17.80	-0.28	2.80
400.0	18.79	22.22	12.75	14.07	1.06	0.50	18.64	-0.12	2.69
500.0	18.67	22.18	12.72	14.11	1.06	0.51	17.19	-0.34	2.77
600.0	18.55	22.15	12.83	14.24	1.06	0.52	16.66	-0.31	2.79
700.0	18.43	22.12	12.95	14.43	1.06	0.54	16.66	-0.24	2.69
800.0	18.27	22.09	13.03	14.59	1.07	0.56	16.25	-0.22	2.74
900.0	18.11	22.06	13.14	14.76	1.07	0.57	16.09	-0.72	2.76
1000.0	17.94	22.00	13.27	15.03	1.07	0.59	15.57	-0.47	2.64
1200.0	17.61	21.88	13.60	15.59	1.08	0.62	16.73	-0.41	2.73
1400.0	17.22	21.79	13.97	16.23	1.10	0.65	17.00	-0.29	2.78
1600.0	16.81	21.71	14.21	16.74	1.11	0.69	17.12	-0.28	2.82
1800.0	16.42	21.55	14.32	17.17	1.13	0.72	18.63	0.32	2.72
2000.0	16.00	21.40	14.29	17.47	1.14	0.74	18.35	0.17	2.68
2200.0	15.59	21.31	14.13	17.45	1.15	0.77	18.75	-0.16	2.69
2400.0	15.17	21.24	13.92	17.47	1.18	0.80	19.87	0.68	2.78
2600.0	14.76	21.16	13.56	17.23	1.19	0.82	19.58	0.98	2.85
2800.0	14.36	21.06	13.20	17.08	1.21	0.84	20.39	1.14	2.92
3000.0	13.98	20.97	12.82	16.82	1.23	0.86	19.72	1.66	2.87
3200.0	13.62	20.86	12.41	16.42	1.24	0.88	19.37	1.58	2.81
3400.0	13.22	20.84	12.20	16.42	1.27	0.89	19.08	1.50	2.84
3600.0	12.88	20.78	11.81	16.17	1.29	0.91	18.73	1.69	2.90
3800.0	12.58	20.64	11.32	15.82	1.29	0.92	18.73	1.57	2.93
4000.0	12.25	20.49	11.02	15.50	1.30	0.93	18.20	1.76	2.86
4200.0	11.94	20.39	10.66	15.04	1.31	0.95	17.70	1.78	3.02
4400.0	11.61	20.41	10.42	14.94	1.34	0.96	17.28	1.79	3.17
4600.0	11.32	20.27	9.97	14.53	1.34	0.97	16.98	1.45	3.22
4800.0	11.04	20.21	9.72	14.14	1.35	0.98	16.75	1.32	3.25
5000.0	10.75	20.29	9.50	13.94	1.39	1.00	15.87	1.45	3.28
5200.0	10.51	20.11	8.97	13.35	1.36	1.01	15.52	1.05	3.41
5400.0	10.18	19.97	8.74	12.82	1.36	1.01	15.19	0.97	3.50
5600.0	10.03	19.76	8.10	12.26	1.31	1.03	15.11	0.60	3.47
5800.0	9.80	19.74	7.78	11.85	1.30	1.04	14.48	0.29	3.56
6000.0	9.57	19.22	7.19	11.04	1.21	1.05	14.29	0.31	3.64

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: Id = 20mA, Vd = 3.34V @ 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)
10.0	22.57	24.68	24.95	20.42	1.03	0.37	22.55	8.21	2.60
20.0	22.56	24.88	25.61	20.56	1.03	0.40	22.76	7.76	2.44
30.0	22.54	24.75	25.82	20.45	1.03	0.38	23.12	7.55	2.49
40.0	22.53	24.78	25.80	20.39	1.03	0.39	21.25	6.50	2.45
50.0	22.52	24.77	25.56	20.34	1.03	0.39	21.47	6.71	2.43
60.0	22.52	24.79	25.43	20.28	1.03	0.39	22.39	7.21	2.45
70.0	22.51	24.81	25.09	20.11	1.03	0.40	21.19	7.26	2.43
80.0	22.51	24.75	24.93	20.00	1.03	0.39	21.52	6.95	2.40
90.0	22.49	24.79	24.78	19.84	1.03	0.40	21.53	7.21	2.34
100.0	22.48	24.79	24.77	19.77	1.03	0.40	19.96	7.38	2.45
200.0	22.37	24.78	23.78	19.20	1.03	0.41	20.60	6.86	2.35
300.0	22.24	24.76	24.29	19.65	1.04	0.42	20.65	6.59	2.54
400.0	22.09	24.70	25.02	20.18	1.04	0.44	21.35	6.90	2.51
500.0	21.89	24.66	25.09	20.32	1.05	0.46	20.76	6.82	2.51
600.0	21.67	24.58	24.73	20.37	1.05	0.48	20.71	6.75	2.57
700.0	21.43	24.50	24.52	20.34	1.06	0.50	21.11	6.95	2.51
800.0	21.17	24.43	24.41	20.39	1.06	0.52	21.54	7.01	2.51
900.0	20.88	24.35	24.53	20.42	1.07	0.54	21.12	6.40	2.49
1000.0	20.58	24.28	24.33	20.34	1.08	0.57	20.35	6.64	2.45
1200.0	20.00	23.99	24.93	19.95	1.10	0.59	21.92	6.91	2.54
1400.0	19.39	23.82	25.97	19.50	1.12	0.63	21.93	7.05	2.58
1600.0	18.79	23.53	27.64	18.99	1.14	0.66	21.94	6.99	2.60
1800.0	18.21	23.25	29.60	18.60	1.16	0.68	22.82	7.57	2.56
2000.0	17.65	22.93	30.63	18.05	1.17	0.69	21.99	7.26	2.55
2200.0	17.12	22.66	29.77	17.50	1.19	0.71	22.06	6.77	2.59
2400.0	16.60	22.36	26.84	17.22	1.20	0.72	21.88	7.44	2.55
2600.0	16.12	22.10	24.26	17.00	1.22	0.74	21.27	7.33	2.70
2800.0	15.65	21.81	22.22	16.76	1.23	0.75	21.09	7.17	2.81
3000.0	15.21	21.52	20.56	16.52	1.24	0.76	20.33	7.15	2.73
3200.0	14.81	21.25	19.16	16.28	1.24	0.77	19.67	6.78	2.75
3400.0	14.37	21.01	18.24	16.17	1.25	0.78	19.29	6.54	2.81
3600.0	14.00	20.76	17.19	16.00	1.26	0.79	18.83	6.26	2.84
3800.0	13.68	20.41	16.11	15.69	1.25	0.80	18.48	5.98	2.86
4000.0	13.32	20.19	15.35	15.24	1.25	0.80	18.18	5.83	2.85
4200.0	12.99	19.89	14.62	14.78	1.25	0.81	17.61	5.56	3.00
4400.0	12.66	19.70	14.11	14.73	1.25	0.82	17.32	5.28	3.05
4600.0	12.36	19.42	13.27	14.28	1.24	0.82	17.05	5.02	3.16
4800.0	12.07	19.22	12.85	13.92	1.24	0.83	16.91	4.67	3.19
5000.0	11.76	19.11	12.43	13.70	1.25	0.84	16.05	4.41	3.23
5200.0	11.54	18.81	11.63	13.23	1.22	0.85	16.22	4.08	3.32
5400.0	11.16	18.76	11.53	12.79	1.25	0.85	15.61	3.85	3.44
5600.0	11.05	18.34	10.45	12.29	1.19	0.86	15.28	3.39	3.46
5800.0	10.86	18.16	9.90	12.02	1.17	0.87	15.01	3.09	3.58
6000.0	10.61	17.67	9.14	11.25	1.11	0.87	14.69	2.85	3.69