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 = 3V, Rbias=432 ohms, Id=80 mA @ Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output(1)	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	24.88	32.57	11.26	10.64	1.30	0.76	34.01	19.38	2.05
100.0	25.87	31.46	12.62	14.29	1.13	0.74	33.94	19.42	1.23
200.0	25.79	30.60	11.64	17.95	1.05	0.75	33.98	19.61	0.82
300.0	25.18	30.14	10.09	19.34	1.04	0.80	34.15	19.47	0.72
400.0	24.42	29.69	8.86	19.83	1.03	0.86	34.13	19.44	0.76
500.0	23.59	29.16	8.00	19.90	1.03	0.90	34.45	19.67	0.70
600.0	22.77	28.69	7.39	19.92	1.03	0.94	34.60	19.65	0.77
700.0	21.96	28.16	6.99	19.94	1.04	0.97	34.57	19.53	0.80
800.0	21.19	27.66	6.72	19.93	1.04	0.99	34.34	19.55	0.78
900.0	20.47	27.13	6.51	20.11	1.05	1.01	34.49	19.52	0.80
1000.0	19.79	26.65	6.37	20.13	1.06	1.02	35.28	19.76	0.88
1100.0	19.14	26.17	6.25	20.19	1.07	1.03	34.77	19.52	0.84
1200.0	18.53	25.77	6.18	20.36	1.08	1.04	34.84	19.97	0.94
1300.0	17.97	25.29	6.13	20.65	1.09	1.05	35.19	19.87	0.89
1400.0	17.44	24.82	6.12	20.87	1.09	1.05	35.00	19.87	0.93
1500.0	16.95	24.37	6.14	21.22	1.09	1.05	35.15	19.79	0.96
1600.0	16.49	23.93	6.18	21.42	1.10	1.05	35.08	19.90	1.09
1700.0	16.05	23.51	6.23	21.65	1.10	1.05	34.91	19.95	0.95
1800.0	15.64	23.11	6.27	21.96	1.11	1.05	34.85	20.00	1.03
1900.0	15.25	22.75	6.34	22.24	1.11	1.05	35.49	20.01	1.02
2000.0	14.88	22.37	6.41	22.52	1.11	1.05	35.62	20.06	1.06
2100.0	14.53	21.95	6.48	22.81	1.11	1.04	35.21	20.10	1.02
2200.0	14.20	21.61	6.59	23.07	1.11	1.04	35.38	20.14	1.07
2300.0	13.89	21.21	6.69	23.26	1.11	1.03	35.40	20.31	1.09
2400.0	13.60	20.89	6.78	23.37	1.11	1.03	35.44	20.32	1.11
2500.0	13.31	20.55	6.89	23.44	1.11	1.02	35.47	20.36	1.17
2600.0	13.05	20.22	6.98	23.51	1.11	1.02	35.97	20.58	1.31
2700.0	12.79	19.89	7.12	23.42	1.11	1.01	35.44	20.53	1.28
2800.0	12.55	19.56	7.26	23.51	1.11	1.00	35.53	20.45	1.39
2900.0	12.30	19.29	7.42	23.36	1.11	0.99	35.62	20.52	1.36
3000.0	12.00	19.08	7.52	23.65	1.13	0.99	35.88	20.73	1.38
3100.0	11.86	18.72	7.50	23.69	1.11	0.99	36.35	20.75	1.31
3200.0	11.66	18.43	7.60	23.50	1.10	0.98	35.57	20.63	1.35
3300.0	11.47	18.16	7.66	23.80	1.10	0.97	35.82	20.58	1.38
3400.0	11.29	17.90	7.71	23.96	1.10	0.97	36.12	20.71	1.40
3500.0	11.10	17.70	7.77	24.32	1.10	0.96	35.12	20.60	1.39
3600.0	10.94	17.47	7.78	24.71	1.10	0.96	35.81	20.67	1.52
3700.0	10.78	17.30	7.76	25.26	1.10	0.96	35.44	20.63	1.45
3800.0	10.63	17.10	7.68	25.67	1.10	0.95	35.64	20.73	1.58
3900.0	10.48	16.94	7.61	26.25	1.10	0.95	35.60	20.60	1.52
4000.0	10.33	16.81	7.55	26.42	1.10	0.95	34.82	20.64	1.60
4200.0	9.95	16.56	7.67	25.78	1.13	0.94	34.75	20.29	1.80
4400.0	8.75	16.65	7.62	21.91	1.24	0.99	34.70	20.39	2.08
4600.0	8.97	16.38	6.19	20.13	1.14	1.01	34.28	20.34	2.39
4800.0	8.66	16.20	5.67	17.84	1.13	1.02	34.04	20.29	2.03
5000.0	8.23	16.09	5.21	15.89	1.13	1.03	35.11	20.44	2.03
5200.0	7.83	15.96	4.85	14.52	1.13	1.04	34.10	19.88	1.90
5400.0	7.37	15.84	4.47	13.15	1.13	1.05	33.39	19.46	2.17
5600.0	6.90	15.75	4.13	12.06	1.13	1.06	33.14	19.80	2.02
5800.0	6.43	15.68	3.85	11.07	1.14	1.06	33.45	19.57	2.37
6000.0	6.00	15.59	3.60	10.33	1.14	1.06	33.68	19.47	2.44
6200.0	5.52	15.53	3.37	9.57	1.14	1.06	32.86	19.24	2.66
6400.0	5.09	15.52	3.17	9.01	1.15	1.06	32.40	18.83	2.68
6600.0	4.61	15.51	3.01	8.43	1.16	1.05	32.98	18.79	2.74
6800.0	4.19	15.45	2.87	7.95	1.16	1.04	33.21	18.98	3.04
7000.0	3.79	15.41	2.77	7.55	1.17	1.03	32.94	18.74	3.45

(1) Current increases at P1dB

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 = 3V, Rbias=432 ohms, Id=89 mA @ Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output(1)	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	25.19	31.88	12.21	10.73	1.21	0.71	35.45	19.40	1.57
100.0	25.94	31.11	15.06	13.85	1.11	0.70	35.88	19.45	1.19
200.0	25.79	30.45	13.55	16.72	1.06	0.72	35.86	19.62	0.64
300.0	25.22	30.11	11.39	17.71	1.06	0.76	35.63	19.48	0.57
400.0	24.52	29.66	9.86	17.95	1.05	0.80	35.57	19.41	0.61
500.0	23.75	29.19	8.78	18.00	1.05	0.84	35.66	19.62	0.57
600.0	22.97	28.76	8.02	18.23	1.06	0.88	35.51	19.60	0.62
700.0	22.20	28.20	7.49	18.39	1.06	0.91	35.33	19.49	0.66
800.0	21.46	27.79	7.14	18.49	1.07	0.94	35.12	19.48	0.62
900.0	20.76	27.29	6.89	18.67	1.08	0.95	34.97	19.44	0.64
1000.0	20.10	26.76	6.69	18.75	1.08	0.97	35.83	19.67	0.70
1100.0	19.47	26.24	6.54	18.89	1.08	0.98	35.23	19.44	0.66
1200.0	18.87	25.74	6.45	19.10	1.09	0.99	35.17	19.86	0.70
1300.0	18.32	25.28	6.36	19.43	1.09	1.00	35.43	19.74	0.71
1400.0	17.80	24.81	6.34	19.65	1.09	1.00	35.36	19.76	0.74
1500.0	17.32	24.37	6.34	19.96	1.10	1.01	35.40	19.68	0.79
1600.0	16.87	23.89	6.37	20.32	1.10	1.01	35.36	19.80	0.85
1700.0	16.43	23.43	6.41	20.70	1.10	1.00	35.03	19.84	0.73
1800.0	16.02	23.02	6.43	21.12	1.10	1.00	35.14	19.88	0.81
1900.0	15.63	22.62	6.49	21.40	1.10	1.00	35.37	19.89	0.77
2000.0	15.27	22.22	6.54	21.91	1.10	1.00	35.77	19.94	0.81
2100.0	14.92	21.86	6.61	22.45	1.10	1.00	35.34	19.98	0.80
2200.0	14.60	21.47	6.72	23.00	1.10	1.00	35.57	20.03	0.81
2300.0	14.30	21.10	6.84	23.53	1.09	0.99	35.84	20.19	0.82
2400.0	14.01	20.74	6.95	23.85	1.09	0.98	35.58	20.22	0.82
2500.0	13.73	20.40	7.07	24.04	1.09	0.98	35.36	20.24	0.85
2600.0	13.46	20.01	7.17	24.35	1.09	0.97	36.21	20.46	0.96
2700.0	13.21	19.71	7.32	24.58	1.09	0.96	35.53	20.46	1.03
2800.0	12.97	19.40	7.47	24.83	1.09	0.96	35.67	20.36	1.08
2900.0	12.73	19.08	7.63	24.78	1.09	0.95	35.81	20.45	0.99
3000.0	12.40	18.93	7.82	24.78	1.11	0.95	35.97	20.64	1.00
3100.0	12.28	18.53	7.70	25.27	1.08	0.94	36.56	20.67	0.99
3200.0	12.09	18.25	7.81	25.20	1.08	0.93	35.72	20.57	1.02
3300.0	11.90	17.98	7.88	25.48	1.08	0.93	36.06	20.55	0.99
3400.0	11.72	17.72	7.93	25.39	1.07	0.92	36.22	20.65	1.12
3500.0	11.54	17.53	7.98	25.60	1.08	0.92	35.23	20.56	1.06
3600.0	11.38	17.26	7.98	25.91	1.07	0.91	35.75	20.65	1.25
3700.0	11.22	17.09	7.96	26.48	1.07	0.91	35.41	20.59	1.07
3800.0	11.08	16.87	7.92	26.72	1.07	0.90	35.89	20.70	1.11
3900.0	10.93	16.72	7.85	26.59	1.07	0.90	35.82	20.56	1.13
4000.0	10.79	16.54	7.76	26.20	1.07	0.90	35.03	20.59	1.35
4200.0	10.45	16.29	7.75	25.16	1.08	0.89	34.85	20.27	1.38
4400.0	8.98	16.41	8.27	20.43	1.23	0.94	34.74	20.33	1.51
4600.0	9.43	16.12	6.24	18.51	1.10	0.96	34.40	20.24	1.38
4800.0	9.12	15.95	5.74	16.63	1.09	0.96	34.12	20.21	1.59
5000.0	8.70	15.82	5.28	14.75	1.09	0.97	34.90	20.34	1.52
5200.0	8.29	15.69	4.89	13.50	1.09	0.98	34.04	19.79	1.59
5400.0	7.82	15.58	4.47	12.17	1.09	0.99	33.50	19.38	1.65
5600.0	7.36	15.50	4.12	11.12	1.09	0.99	33.26	19.63	1.67
5800.0	6.91	15.41	3.85	10.39	1.09	1.00	33.38	19.46	1.88
6000.0	6.45	15.35	3.56	9.58	1.09	1.00	33.65	19.40	1.83
6200.0	5.97	15.29	3.30	8.93	1.09	1.00	32.94	19.15	1.94
6400.0	5.54	15.26	3.12	8.45	1.10	1.00	32.56	18.80	2.08
6600.0	5.07	15.25	2.92	7.88	1.10	0.99	32.81	18.66	2.11
6800.0	4.67	15.17	2.79	7.45	1.11	0.98	33.26	18.91	2.37
7000.0	4.26	15.14	2.66	7.08	1.11	0.97	33.01	18.70	2.75

(1) Current increases at P1dB

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 = 3V, Rbias=432 ohms,Id=78 mA @ Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output(1)	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	24.46	32.59	10.52	10.17	1.33	0.76	32.76	19.28	2.67
100.0	25.65	31.61	11.09	13.70	1.14	0.76	32.88	19.30	1.69
200.0	25.64	30.61	10.35	17.31	1.05	0.78	32.91	19.48	0.97
300.0	25.01	30.00	9.17	18.67	1.01	0.83	33.16	19.36	0.90
400.0	24.22	29.49	8.16	19.36	1.00	0.89	33.56	19.35	0.87
500.0	23.37	28.91	7.43	19.83	0.99	0.93	33.70	19.60	0.85
600.0	22.52	28.43	6.93	20.06	0.99	0.97	34.13	19.61	0.94
700.0	21.70	27.92	6.62	20.06	1.00	1.00	34.40	19.48	0.98
800.0	20.92	27.46	6.42	19.92	1.01	1.03	34.31	19.51	0.94
900.0	20.19	26.98	6.26	20.15	1.03	1.04	34.33	19.51	1.00
1000.0	19.50	26.55	6.14	20.29	1.04	1.06	35.07	19.75	0.86
1100.0	18.84	26.02	6.04	20.42	1.05	1.07	34.89	19.53	1.03
1200.0	18.23	25.67	6.01	20.52	1.07	1.08	34.94	19.96	1.01
1300.0	17.66	25.20	5.97	20.73	1.07	1.08	35.22	19.87	1.10
1400.0	17.14	24.73	5.99	20.95	1.08	1.08	35.29	19.90	1.13
1500.0	16.64	24.35	6.02	21.23	1.09	1.09	35.41	19.80	1.22
1600.0	16.18	23.91	6.04	21.34	1.09	1.09	35.36	19.92	1.22
1700.0	15.74	23.57	6.10	21.43	1.11	1.09	35.22	19.97	1.16
1800.0	15.32	23.15	6.14	21.54	1.11	1.09	35.10	20.03	1.29
1900.0	14.93	22.72	6.22	21.73	1.11	1.08	35.70	20.03	1.22
2000.0	14.57	22.39	6.29	22.01	1.12	1.08	36.08	20.09	1.28
2100.0	14.21	22.02	6.36	22.12	1.12	1.08	35.52	20.11	1.32
2200.0	13.88	21.66	6.45	22.23	1.12	1.07	36.04	20.15	1.32
2300.0	13.57	21.33	6.55	22.17	1.13	1.07	36.06	20.29	1.34
2400.0	13.27	21.00	6.65	22.14	1.13	1.06	35.94	20.30	1.37
2500.0	12.98	20.64	6.75	22.18	1.13	1.06	35.75	20.32	1.43
2600.0	12.71	20.33	6.83	22.23	1.13	1.05	36.53	20.52	1.51
2700.0	12.46	19.99	6.96	22.13	1.13	1.04	35.89	20.48	1.58
2800.0	12.21	19.72	7.08	22.19	1.13	1.04	35.90	20.40	1.55
2900.0	11.96	19.39	7.23	22.01	1.13	1.03	36.10	20.44	1.65
3000.0	11.67	19.20	7.33	22.34	1.15	1.03	36.34	20.64	1.60
3100.0	11.51	18.84	7.31	22.24	1.13	1.02	36.87	20.66	1.63
3200.0	11.31	18.56	7.40	22.24	1.13	1.01	36.29	20.54	1.64
3300.0	11.11	18.34	7.45	22.47	1.13	1.01	36.20	20.51	1.67
3400.0	10.93	18.08	7.49	22.75	1.12	1.00	36.51	20.60	1.77
3500.0	10.75	17.85	7.52	23.07	1.12	1.00	35.66	20.52	1.81
3600.0	10.58	17.66	7.53	23.60	1.13	1.00	36.31	20.58	1.90
3700.0	10.41	17.46	7.48	24.13	1.12	0.99	35.93	20.52	1.85
3800.0	10.26	17.27	7.42	24.71	1.12	0.99	36.14	20.64	1.86
3900.0	10.10	17.12	7.36	25.55	1.12	0.99	36.23	20.52	1.94
4000.0	9.95	16.98	7.28	26.04	1.13	0.99	35.51	20.52	1.94
4200.0	9.55	16.74	7.40	25.81	1.15	0.98	35.31	20.25	2.18
4400.0	8.43	16.80	7.52	23.10	1.28	1.02	35.27	20.36	2.50
4600.0	8.57	16.59	6.09	21.30	1.18	1.05	34.95	20.33	2.44
4800.0	8.28	16.42	5.58	18.93	1.16	1.06	34.68	20.28	2.55
5000.0	7.86	16.30	5.16	16.96	1.17	1.08	35.79	20.45	2.40
5200.0	7.47	16.13	4.83	15.53	1.16	1.09	34.63	19.92	2.58
5400.0	7.02	16.03	4.47	14.05	1.17	1.10	34.00	19.51	2.55
5600.0	6.57	15.93	4.15	12.86	1.17	1.10	33.91	19.87	2.82
5800.0	6.11	15.84	3.89	11.86	1.17	1.10	34.25	19.66	2.85
6000.0	5.67	15.76	3.65	10.96	1.18	1.10	34.22	19.52	2.87
6200.0	5.19	15.71	3.42	10.18	1.18	1.10	33.42	19.29	3.10
6400.0	4.74	15.69	3.23	9.56	1.19	1.10	33.07	18.92	3.17
6600.0	4.26	15.67	3.07	8.96	1.20	1.10	33.72	18.91	3.35
6800.0	3.82	15.63	2.93	8.43	1.21	1.09	33.90	19.03	3.73
7000.0	3.41	15.60	2.83	7.98	1.22	1.08	33.39	18.78	4.21

(1) Current increases at P1dB

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 = 3V, Id=80mA @ Temperature = +25degC (1)

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output(2)	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	24.88	32.57	11.26	10.64	1.30	0.76	34.01	19.38	2.05
100.0	25.87	31.46	12.62	14.29	1.13	0.74	33.94	19.42	1.23
200.0	25.79	30.60	11.64	17.95	1.05	0.75	33.98	19.61	0.82
300.0	25.18	30.14	10.09	19.34	1.04	0.80	34.15	19.47	0.72
400.0	24.42	29.69	8.86	19.83	1.03	0.86	34.13	19.44	0.76
500.0	23.59	29.16	8.00	19.90	1.03	0.90	34.45	19.67	0.70
600.0	22.77	28.69	7.39	19.92	1.03	0.94	34.60	19.65	0.77
700.0	21.96	28.16	6.99	19.94	1.04	0.97	34.57	19.53	0.80
800.0	21.19	27.66	6.72	19.93	1.04	0.99	34.34	19.55	0.78
900.0	20.47	27.13	6.51	20.11	1.05	1.01	34.49	19.52	0.80
1000.0	19.79	26.65	6.37	20.13	1.06	1.02	35.28	19.76	0.88
1100.0	19.14	26.17	6.25	20.19	1.07	1.03	34.77	19.52	0.84
1200.0	18.53	25.77	6.18	20.36	1.08	1.04	34.84	19.97	0.94
1300.0	17.97	25.29	6.13	20.65	1.09	1.05	35.19	19.87	0.89
1400.0	17.44	24.82	6.12	20.87	1.09	1.05	35.00	19.87	0.93
1500.0	16.95	24.37	6.14	21.22	1.09	1.05	35.15	19.79	0.96
1600.0	16.49	23.93	6.18	21.42	1.10	1.05	35.08	19.90	1.09
1700.0	16.05	23.51	6.23	21.65	1.10	1.05	34.91	19.95	0.95
1800.0	15.64	23.11	6.27	21.96	1.11	1.05	34.85	20.00	1.03
1900.0	15.25	22.75	6.34	22.24	1.11	1.05	35.49	20.01	1.02
2000.0	14.88	22.37	6.41	22.52	1.11	1.05	35.62	20.06	1.06
2100.0	14.53	21.95	6.48	22.81	1.11	1.04	35.21	20.10	1.02
2200.0	14.20	21.61	6.59	23.07	1.11	1.04	35.38	20.14	1.07
2300.0	13.89	21.21	6.69	23.26	1.11	1.03	35.40	20.31	1.09
2400.0	13.60	20.89	6.78	23.37	1.11	1.03	35.44	20.32	1.11
2500.0	13.31	20.55	6.89	23.44	1.11	1.02	35.47	20.36	1.17
2600.0	13.05	20.22	6.98	23.51	1.11	1.02	35.97	20.58	1.31
2700.0	12.79	19.89	7.12	23.42	1.11	1.01	35.44	20.53	1.28
2800.0	12.55	19.56	7.26	23.51	1.11	1.00	35.53	20.45	1.39
2900.0	12.30	19.29	7.42	23.36	1.11	0.99	35.62	20.52	1.36
3000.0	12.00	19.08	7.52	23.65	1.13	0.99	35.88	20.73	1.38
3100.0	11.86	18.72	7.50	23.69	1.11	0.99	36.35	20.75	1.31
3200.0	11.66	18.43	7.60	23.50	1.10	0.98	35.57	20.63	1.35
3300.0	11.47	18.16	7.66	23.80	1.10	0.97	35.82	20.58	1.38
3400.0	11.29	17.90	7.71	23.96	1.10	0.97	36.12	20.71	1.40
3500.0	11.10	17.70	7.77	24.32	1.10	0.96	35.12	20.60	1.39
3600.0	10.94	17.47	7.78	24.71	1.10	0.96	35.81	20.67	1.52
3700.0	10.78	17.30	7.76	25.26	1.10	0.96	35.44	20.63	1.45
3800.0	10.63	17.10	7.68	25.67	1.10	0.95	35.64	20.73	1.58
3900.0	10.48	16.94	7.61	26.25	1.10	0.95	35.60	20.60	1.52
4000.0	10.33	16.81	7.55	26.42	1.10	0.95	34.82	20.64	1.60
4200.0	9.95	16.56	7.67	25.78	1.13	0.94	34.75	20.29	1.80
4400.0	8.75	16.65	7.62	21.91	1.24	0.99	34.70	20.39	2.08
4600.0	8.97	16.38	6.19	20.13	1.14	1.01	34.28	20.34	2.39
4800.0	8.66	16.20	5.67	17.84	1.13	1.02	34.04	20.29	2.03
5000.0	8.23	16.09	5.21	15.89	1.13	1.03	35.11	20.44	2.03
5200.0	7.83	15.96	4.85	14.52	1.13	1.04	34.10	19.88	1.90
5400.0	7.37	15.84	4.47	13.15	1.13	1.05	33.39	19.46	2.17
5600.0	6.90	15.75	4.13	12.06	1.13	1.06	33.14	19.80	2.02
5800.0	6.43	15.68	3.85	11.07	1.14	1.06	33.45	19.57	2.37
6000.0	6.00	15.59	3.60	10.33	1.14	1.06	33.68	19.47	2.44
6200.0	5.52	15.53	3.37	9.57	1.14	1.06	32.86	19.24	2.66
6400.0	5.09	15.52	3.17	9.01	1.15	1.06	32.40	18.83	2.68
6600.0	4.61	15.51	3.01	8.43	1.16	1.05	32.98	18.79	2.74
6800.0	4.19	15.45	2.87	7.95	1.16	1.04	33.21	18.98	3.04
7000.0	3.79	15.41	2.77	7.55	1.17	1.03	32.94	18.74	3.45

(1) External Rbias resistor is adjusted to obtain desired current

(2) Current increases at P1dB

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 = 3V, Id=65mA @ Temperature = +25degC (1)

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output(2)	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	24.62	32.81	11.20	10.44	1.35	0.77	33.09	19.25	2.05
100.0	25.66	31.26	12.39	14.09	1.13	0.74	33.06	19.35	1.12
200.0	25.61	30.38	11.38	17.90	1.05	0.75	33.24	19.55	0.82
300.0	25.02	29.92	9.91	19.40	1.03	0.80	33.78	19.43	0.76
400.0	24.27	29.34	8.75	19.97	1.01	0.85	34.03	19.40	0.73
500.0	23.45	28.92	7.91	20.09	1.01	0.90	34.04	19.63	0.70
600.0	22.64	28.51	7.32	20.10	1.02	0.94	34.47	19.62	0.77
700.0	21.83	27.98	6.94	20.06	1.02	0.97	34.89	19.50	0.81
800.0	21.07	27.54	6.66	20.07	1.04	1.00	34.71	19.52	0.77
900.0	20.35	27.08	6.45	20.23	1.05	1.02	34.88	19.52	0.80
1000.0	19.67	26.56	6.30	20.30	1.05	1.03	35.37	19.73	0.78
1100.0	19.02	26.10	6.19	20.37	1.06	1.04	35.43	19.52	0.84
1200.0	18.42	25.67	6.14	20.49	1.07	1.05	35.63	19.92	0.96
1300.0	17.86	25.13	6.10	20.72	1.07	1.05	35.69	19.83	0.88
1400.0	17.34	24.78	6.10	20.99	1.09	1.06	35.66	19.84	0.98
1500.0	16.84	24.33	6.09	21.28	1.09	1.06	35.72	19.77	0.94
1600.0	16.38	23.95	6.11	21.47	1.10	1.07	35.90	19.87	0.88
1700.0	15.94	23.51	6.17	21.70	1.10	1.06	35.73	19.92	0.96
1800.0	15.54	23.11	6.22	21.98	1.10	1.06	35.60	19.98	1.00
1900.0	15.15	22.72	6.29	22.22	1.11	1.06	36.20	19.97	1.02
2000.0	14.78	22.31	6.35	22.49	1.11	1.06	36.56	20.02	1.05
2100.0	14.43	21.96	6.42	22.69	1.11	1.06	35.89	20.04	1.06
2200.0	14.10	21.61	6.52	22.91	1.11	1.05	36.32	20.08	1.05
2300.0	13.80	21.22	6.62	23.03	1.11	1.04	36.45	20.22	1.10
2400.0	13.50	20.90	6.71	23.05	1.11	1.04	36.40	20.23	1.12
2500.0	13.21	20.57	6.82	23.11	1.11	1.03	36.20	20.26	1.15
2600.0	12.95	20.21	6.92	23.06	1.11	1.03	37.14	20.45	1.23
2700.0	12.69	19.90	7.04	22.99	1.11	1.02	36.65	20.41	1.29
2800.0	12.45	19.62	7.18	23.09	1.11	1.01	36.43	20.34	1.23
2900.0	12.20	19.28	7.32	22.92	1.11	1.00	36.51	20.39	1.27
3000.0	11.90	19.11	7.43	23.26	1.13	1.00	36.78	20.58	1.36
3100.0	11.76	18.75	7.43	23.09	1.11	1.00	37.18	20.58	1.31
3200.0	11.57	18.45	7.51	22.97	1.10	0.99	36.82	20.46	1.32
3300.0	11.38	18.20	7.57	23.10	1.10	0.98	37.00	20.45	1.38
3400.0	11.19	17.94	7.63	23.36	1.10	0.98	37.02	20.53	1.42
3500.0	11.02	17.70	7.66	23.72	1.10	0.97	36.17	20.46	1.47
3600.0	10.85	17.50	7.67	24.05	1.10	0.97	37.11	20.52	1.50
3700.0	10.69	17.32	7.66	24.79	1.10	0.97	36.38	20.46	1.52
3800.0	10.54	17.13	7.62	25.10	1.10	0.96	36.93	20.54	1.56
3900.0	10.39	17.00	7.55	25.85	1.10	0.96	36.60	20.44	1.54
4000.0	10.24	16.83	7.48	26.06	1.10	0.96	35.97	20.47	1.69
4200.0	9.85	16.59	7.61	25.66	1.13	0.95	35.97	20.22	1.78
4400.0	8.67	16.66	7.54	22.21	1.24	1.00	35.83	20.33	2.04
4600.0	8.88	16.42	6.10	20.38	1.14	1.02	35.47	20.29	1.75
4800.0	8.57	16.28	5.62	18.24	1.14	1.04	35.27	20.24	2.09
5000.0	8.16	16.12	5.20	16.31	1.13	1.05	36.33	20.39	1.99
5200.0	7.73	16.00	4.80	14.75	1.14	1.06	35.25	19.87	2.03
5400.0	7.28	15.89	4.44	13.37	1.14	1.06	34.63	19.48	2.11
5600.0	6.84	15.80	4.11	12.31	1.14	1.07	34.37	19.81	2.11
5800.0	6.33	15.72	3.80	11.20	1.14	1.07	34.75	19.64	2.31
6000.0	5.93	15.65	3.60	10.53	1.15	1.07	34.80	19.52	2.45
6200.0	5.44	15.59	3.35	9.68	1.15	1.07	34.07	19.27	2.74
6400.0	4.98	15.55	3.14	9.11	1.15	1.07	33.60	18.90	2.65
6600.0	4.52	15.54	2.99	8.53	1.16	1.06	34.17	18.83	2.72
6800.0	4.10	15.50	2.84	8.03	1.17	1.06	34.50	19.00	2.90
7000.0	3.69	15.48	2.73	7.63	1.18	1.05	34.23	18.79	3.46

(1) External Rbias resistor is adjusted to obtain desired current

(2) Current increases at P1dB

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 = 3V, Id=98mA @ Temperature = +25degC (1)

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output(2)	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	25.15	32.64	10.96	10.91	1.27	0.76	34.90	19.50	2.14
100.0	26.10	31.74	12.84	14.49	1.13	0.75	34.91	19.47	1.31
200.0	25.99	30.88	11.91	17.97	1.06	0.76	34.51	19.65	0.82
300.0	25.36	30.36	10.25	19.23	1.04	0.80	34.37	19.49	0.75
400.0	24.58	30.02	8.98	19.65	1.05	0.86	33.97	19.44	0.78
500.0	23.75	29.41	8.09	19.73	1.04	0.90	34.17	19.69	0.74
600.0	22.92	28.86	7.46	19.79	1.04	0.93	33.95	19.67	0.80
700.0	22.10	28.41	7.06	19.80	1.05	0.96	33.97	19.55	0.85
800.0	21.32	27.89	6.78	19.82	1.06	0.99	33.61	19.54	0.81
900.0	20.60	27.30	6.57	19.99	1.06	1.00	33.55	19.51	0.83
1000.0	19.92	26.77	6.42	20.04	1.07	1.01	34.22	19.76	0.78
1100.0	19.26	26.31	6.31	20.13	1.08	1.02	33.71	19.52	0.87
1200.0	18.65	25.85	6.24	20.29	1.09	1.03	33.77	20.00	0.90
1300.0	18.09	25.37	6.18	20.57	1.09	1.04	33.95	19.88	0.94
1400.0	17.56	24.90	6.18	20.85	1.10	1.04	33.75	19.88	0.84
1500.0	17.07	24.44	6.20	21.19	1.10	1.04	33.86	19.78	1.01
1600.0	16.60	24.01	6.24	21.43	1.10	1.04	33.94	19.92	0.97
1700.0	16.16	23.58	6.29	21.73	1.11	1.04	33.53	19.97	1.07
1800.0	15.75	23.18	6.34	22.06	1.11	1.04	33.71	20.01	1.00
1900.0	15.36	22.77	6.41	22.36	1.11	1.04	33.92	20.03	1.05
2000.0	14.99	22.36	6.47	22.73	1.11	1.04	34.24	20.09	1.10
2100.0	14.64	21.98	6.55	23.03	1.11	1.04	33.96	20.13	1.05
2200.0	14.31	21.62	6.67	23.40	1.11	1.03	34.02	20.16	1.11
2300.0	14.00	21.25	6.77	23.68	1.11	1.03	34.21	20.36	1.15
2400.0	13.70	20.95	6.87	23.76	1.12	1.02	34.14	20.38	1.22
2500.0	13.42	20.56	6.98	23.93	1.11	1.01	34.10	20.41	1.20
2600.0	13.15	20.21	7.08	23.95	1.11	1.01	34.63	20.66	1.29
2700.0	12.90	19.90	7.22	23.93	1.11	1.00	34.15	20.63	1.36
2800.0	12.65	19.60	7.36	24.01	1.11	0.99	34.22	20.51	1.45
2900.0	12.40	19.29	7.52	23.91	1.11	0.98	34.18	20.59	1.30
3000.0	12.11	19.09	7.61	24.20	1.13	0.98	34.41	20.84	1.28
3100.0	11.96	18.72	7.61	24.23	1.11	0.98	34.89	20.89	1.36
3200.0	11.76	18.47	7.70	24.05	1.11	0.97	34.25	20.75	1.37
3300.0	11.56	18.20	7.76	24.31	1.10	0.96	34.29	20.70	1.47
3400.0	11.39	17.93	7.81	24.47	1.10	0.96	34.60	20.84	1.49
3500.0	11.20	17.71	7.86	24.83	1.10	0.95	33.78	20.71	1.55
3600.0	11.04	17.49	7.86	25.23	1.10	0.95	34.25	20.79	1.63
3700.0	10.88	17.29	7.86	25.81	1.10	0.95	33.88	20.74	1.58
3800.0	10.73	17.08	7.77	26.14	1.09	0.94	34.23	20.87	1.64
3900.0	10.57	16.93	7.71	26.73	1.10	0.94	34.28	20.69	1.62
4000.0	10.43	16.79	7.64	26.72	1.10	0.94	33.56	20.72	1.77
4200.0	10.04	16.54	7.75	25.91	1.12	0.93	33.27	20.32	1.81
4400.0	8.85	16.62	7.68	21.79	1.23	0.98	33.34	20.40	2.20
4600.0	9.07	16.36	6.24	19.98	1.13	1.00	32.91	20.35	2.08
4800.0	8.75	16.21	5.73	17.74	1.13	1.01	32.63	20.29	2.15
5000.0	8.32	16.07	5.25	15.78	1.13	1.02	33.52	20.45	2.17
5200.0	7.92	15.92	4.89	14.43	1.12	1.03	32.68	19.85	2.12
5400.0	7.46	15.82	4.50	13.08	1.13	1.04	32.12	19.38	2.28
5600.0	6.99	15.73	4.16	12.00	1.13	1.05	31.98	19.74	2.40
5800.0	6.52	15.64	3.88	11.01	1.13	1.05	32.22	19.52	2.52
6000.0	6.08	15.57	3.64	10.26	1.13	1.05	32.36	19.40	2.62
6200.0	5.61	15.52	3.40	9.52	1.14	1.05	31.64	19.13	2.41
6400.0	5.18	15.48	3.21	8.96	1.14	1.05	31.26	18.77	2.90
6600.0	4.71	15.48	3.04	8.38	1.15	1.04	31.73	18.75	2.93
6800.0	4.29	15.40	2.89	7.93	1.16	1.03	31.91	18.97	3.18
7000.0	3.89	15.38	2.79	7.53	1.16	1.03	31.65	18.69	3.84

(1) External Rbias resistor is adjusted to obtain desired current

(2) Current increases at P1dB