

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 = 65mA, Vd = 4.47V @ 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)
20.0	14.43	19.00	42.49	41.48	1.14	0.65	33.49	16.41	4.15
30.0	14.44	19.01	49.93	41.18	1.14	0.65	34.25	16.60	4.17
40.0	14.43	19.05	51.79	40.22	1.14	0.65	35.62	16.87	4.21
50.0	14.43	19.04	52.39	40.38	1.14	0.65	35.47	16.95	4.21
60.0	14.42	19.02	47.59	40.55	1.14	0.65	33.81	18.14	4.14
70.0	14.41	19.04	45.84	40.67	1.15	0.66	36.16	18.06	4.21
80.0	14.41	19.04	45.73	40.54	1.15	0.66	36.85	18.08	4.17
90.0	14.41	19.04	48.10	39.60	1.15	0.66	34.36	18.07	4.14
100.0	14.40	19.06	49.47	39.52	1.15	0.66	34.77	18.03	4.16
200.0	14.35	19.06	41.64	38.42	1.15	0.66	35.39	17.98	4.16
300.0	14.31	19.08	40.00	36.62	1.15	0.67	39.24	18.00	4.32
400.0	14.26	19.07	36.94	34.72	1.16	0.67	40.90	18.10	4.33
500.0	14.21	19.09	35.55	33.01	1.16	0.67	33.60	18.03	4.39
600.0	14.16	19.11	34.10	31.37	1.17	0.68	37.75	18.02	4.34
700.0	14.12	19.12	32.92	30.38	1.17	0.68	35.58	17.97	4.38
800.0	14.07	19.15	31.93	29.17	1.17	0.69	37.49	17.95	4.27
900.0	14.02	19.16	31.17	28.45	1.18	0.69	33.82	17.86	4.33
1000.0	13.97	19.21	30.58	27.70	1.19	0.70	32.69	17.77	4.32
1200.0	13.87	19.26	29.28	26.62	1.20	0.71	34.90	17.72	4.34
1400.0	13.77	19.34	28.21	26.08	1.21	0.72	33.11	17.54	4.39
1600.0	13.66	19.44	27.63	25.95	1.23	0.73	33.76	17.28	4.38
1800.0	13.56	19.54	26.85	26.13	1.24	0.75	32.69	16.84	4.40
2000.0	13.45	19.61	26.06	26.64	1.26	0.76	31.31	16.62	4.39
2200.0	13.35	19.78	25.23	27.63	1.28	0.77	31.86	16.31	4.48
2400.0	13.23	19.86	24.47	28.82	1.30	0.78	30.79	15.78	4.46
2600.0	13.13	20.01	23.58	30.46	1.33	0.80	29.50	15.32	4.52
2800.0	13.02	20.17	22.60	32.39	1.35	0.81	28.86	14.87	4.66
3000.0	12.90	20.35	21.67	34.83	1.38	0.83	28.13	14.45	4.63
3200.0	12.79	20.53	20.72	37.87	1.41	0.84	27.50	14.12	4.65
3400.0	12.71	20.74	19.61	39.95	1.45	0.85	26.74	13.72	4.65
3600.0	12.60	20.91	18.66	38.39	1.48	0.87	26.04	13.28	4.73
3800.0	12.49	21.15	17.79	36.73	1.52	0.88	25.64	12.89	4.77
4000.0	12.40	21.36	16.96	34.37	1.55	0.89	25.16	12.53	4.74
4200.0	12.32	21.66	16.17	32.49	1.60	0.91	24.92	12.17	4.82
4400.0	12.20	21.97	15.64	30.89	1.66	0.92	24.43	11.88	4.91
4600.0	11.97	21.90	15.25	32.87	1.68	0.93	24.17	11.52	4.99
4800.0	11.96	22.25	14.41	31.39	1.73	0.94	23.53	11.10	5.04
5000.0	11.87	22.49	13.99	30.41	1.78	0.95	22.98	10.63	5.10
5200.0	11.97	23.19	13.45	25.58	1.88	0.96	22.67	10.24	5.10
5400.0	11.73	22.80	13.61	27.46	1.86	0.96	21.75	9.65	5.31
5600.0	11.86	23.49	12.81	23.92	1.94	0.97	21.75	9.63	5.25
5800.0	11.77	23.19	13.04	24.24	1.91	0.97	20.90	9.04	5.38
6000.0	11.85	24.02	11.88	21.84	2.02	0.99	20.69	8.59	5.33
6200.0	11.88	24.01	11.94	20.93	2.02	0.99	20.16	8.28	5.39
6400.0	11.85	24.25	11.68	21.06	2.06	0.99	19.62	7.91	5.46
6600.0	11.85	24.51	11.55	20.56	2.11	1.00	19.25	7.51	5.48
6800.0	11.94	24.15	12.04	21.35	2.04	0.99	18.57	7.16	5.59
7000.0	11.93	24.35	12.03	21.26	2.09	0.99	18.36	6.81	5.58

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 = 52mA, Vd = 4.35V @ 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)
20.0	14.31	18.88	46.38	48.52	1.14	0.65	42.36	15.15	4.09
30.0	14.32	18.92	43.18	50.70	1.14	0.65	30.77	15.21	4.10
40.0	14.31	18.93	41.03	54.80	1.14	0.65	38.36	15.21	4.13
50.0	14.31	18.91	39.54	57.22	1.14	0.65	36.51	15.28	4.14
60.0	14.30	18.95	40.63	52.21	1.15	0.66	36.44	16.61	4.07
70.0	14.30	18.94	41.54	54.01	1.15	0.66	32.16	16.58	4.10
80.0	14.29	18.95	43.04	50.29	1.15	0.66	34.37	16.50	4.05
90.0	14.29	18.94	43.71	50.77	1.15	0.66	31.25	16.52	4.08
100.0	14.28	18.97	42.98	50.20	1.15	0.66	31.23	16.51	4.06
200.0	14.24	18.99	39.72	46.15	1.15	0.66	32.29	16.28	4.05
300.0	14.20	18.99	38.89	42.27	1.16	0.67	33.73	16.27	4.18
400.0	14.14	18.99	36.87	38.79	1.16	0.67	33.73	16.45	4.25
500.0	14.10	19.00	36.21	36.18	1.16	0.68	32.32	16.37	4.26
600.0	14.05	19.04	34.70	34.00	1.17	0.68	34.30	16.42	4.26
700.0	14.01	19.05	33.74	32.52	1.17	0.69	31.62	16.42	4.30
800.0	13.96	19.03	32.78	31.23	1.17	0.69	32.24	16.39	4.19
900.0	13.91	19.09	32.01	30.33	1.18	0.70	32.83	16.19	4.24
1000.0	13.86	19.11	31.49	29.49	1.19	0.70	31.02	16.16	4.19
1200.0	13.76	19.18	30.05	28.15	1.20	0.71	32.62	16.31	4.22
1400.0	13.67	19.25	28.79	27.58	1.21	0.72	31.53	16.13	4.29
1600.0	13.56	19.34	28.04	27.42	1.23	0.73	31.58	16.12	4.25
1800.0	13.45	19.43	27.09	27.70	1.24	0.75	30.90	15.92	4.30
2000.0	13.34	19.52	26.17	28.26	1.26	0.76	29.82	15.60	4.32
2200.0	13.24	19.63	25.21	29.54	1.28	0.77	29.81	15.36	4.35
2400.0	13.13	19.78	24.29	30.97	1.30	0.79	28.65	14.96	4.34
2600.0	13.02	19.93	23.32	33.17	1.33	0.80	28.74	14.49	4.43
2800.0	12.91	20.07	22.28	35.90	1.35	0.81	27.57	14.02	4.55
3000.0	12.79	20.24	21.32	39.40	1.38	0.83	26.76	13.62	4.47
3200.0	12.69	20.44	20.33	41.58	1.41	0.84	26.50	13.26	4.47
3400.0	12.60	20.65	19.23	40.06	1.45	0.85	25.74	12.88	4.49
3600.0	12.49	20.83	18.28	36.86	1.48	0.87	25.48	12.45	4.60
3800.0	12.38	21.01	17.44	35.05	1.51	0.88	24.70	12.07	4.60
4000.0	12.28	21.27	16.58	32.94	1.56	0.89	24.12	11.68	4.58
4200.0	12.21	21.56	15.84	31.06	1.60	0.91	23.75	11.34	4.67
4400.0	12.08	21.86	15.29	29.72	1.66	0.92	23.45	11.03	4.75
4600.0	11.84	21.82	14.92	32.01	1.69	0.93	22.98	10.66	4.79
4800.0	11.83	22.17	14.10	29.88	1.73	0.94	22.51	10.25	4.88
5000.0	11.73	22.37	13.67	28.94	1.78	0.95	21.88	9.80	4.92
5200.0	11.82	23.09	13.12	24.76	1.88	0.97	21.58	9.41	4.90
5400.0	11.58	22.70	13.27	26.59	1.86	0.96	20.72	8.79	5.13
5600.0	11.71	23.33	12.50	23.18	1.93	0.98	20.62	8.76	5.04
5800.0	11.60	23.08	12.70	23.64	1.91	0.97	19.84	8.19	5.18
6000.0	11.67	23.91	11.61	21.27	2.02	0.99	19.50	7.74	5.13
6200.0	11.70	23.86	11.67	20.51	2.01	0.99	19.13	7.43	5.22
6400.0	11.66	24.13	11.42	20.61	2.07	1.00	18.59	7.09	5.23
6600.0	11.65	24.37	11.31	20.15	2.12	1.00	18.21	6.70	5.27
6800.0	11.73	24.08	11.76	21.01	2.06	0.99	17.55	6.33	5.36
7000.0	11.70	24.21	11.77	20.95	2.09	0.99	17.35	6.02	5.34



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 = 78mA, Vd = 4.59V @ 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)
20.0	14.50	19.00	37.52	36.32	1.14	0.64	33.16	16.76	4.27
30.0	14.51	19.09	40.68	36.31	1.14	0.65	30.39	16.98	4.29
40.0	14.51	19.12	43.06	35.84	1.14	0.65	39.98	17.55	4.31
50.0	14.50	19.09	45.31	35.96	1.14	0.65	35.88	17.60	4.34
60.0	14.49	19.11	42.22	35.81	1.14	0.65	38.89	18.56	4.27
70.0	14.49	19.11	40.44	35.90	1.15	0.66	34.54	18.44	4.33
80.0	14.48	19.11	39.81	35.97	1.14	0.65	42.19	18.54	4.26
90.0	14.48	19.12	39.95	35.48	1.15	0.66	37.32	18.50	4.25
100.0	14.47	19.11	41.17	35.53	1.15	0.66	38.04	18.46	4.26
200.0	14.43	19.13	38.75	34.79	1.15	0.66	40.69	18.67	4.25
300.0	14.38	19.13	37.76	33.97	1.15	0.66	37.13	18.83	4.46
400.0	14.33	19.17	35.29	32.33	1.16	0.67	41.12	18.88	4.45
500.0	14.28	19.15	34.08	30.96	1.16	0.67	37.42	18.94	4.48
600.0	14.23	19.18	32.83	29.77	1.17	0.68	37.78	18.94	4.46
700.0	14.19	19.20	31.84	28.84	1.17	0.68	37.36	18.86	4.47
800.0	14.14	19.22	30.87	28.01	1.18	0.69	37.67	18.80	4.38
900.0	14.08	19.23	30.17	27.26	1.18	0.69	35.56	18.88	4.41
1000.0	14.04	19.25	29.69	26.62	1.18	0.70	34.35	18.74	4.42
1200.0	13.94	19.31	28.48	25.64	1.20	0.71	36.03	18.44	4.38
1400.0	13.84	19.38	27.54	25.14	1.21	0.72	34.30	18.26	4.50
1600.0	13.73	19.49	27.03	24.99	1.23	0.73	34.14	17.87	4.49
1800.0	13.63	19.59	26.44	25.11	1.24	0.74	32.17	17.35	4.53
2000.0	13.52	19.70	25.75	25.60	1.26	0.76	34.70	17.23	4.58
2200.0	13.42	19.82	25.04	26.52	1.28	0.77	33.15	16.89	4.58
2400.0	13.31	19.93	24.39	27.50	1.30	0.78	30.87	16.36	4.63
2600.0	13.20	20.07	23.68	29.03	1.33	0.80	30.75	15.93	4.67
2800.0	13.09	20.23	22.76	30.62	1.35	0.81	30.21	15.51	4.78
3000.0	12.98	20.41	21.87	32.64	1.38	0.82	28.82	15.15	4.70
3200.0	12.87	20.57	20.99	34.90	1.41	0.84	28.51	14.83	4.73
3400.0	12.79	20.80	19.90	37.78	1.44	0.85	27.48	14.42	4.77
3600.0	12.68	20.94	18.95	37.50	1.47	0.86	27.24	13.99	4.83
3800.0	12.58	21.20	18.09	36.59	1.52	0.88	26.76	13.64	4.92
4000.0	12.49	21.38	17.24	35.09	1.55	0.89	26.06	13.26	4.91
4200.0	12.42	21.68	16.46	33.17	1.59	0.90	25.66	12.91	4.97
4400.0	12.30	22.01	15.95	31.48	1.66	0.92	25.49	12.65	5.03
4600.0	12.07	21.97	15.52	33.12	1.68	0.92	25.15	12.31	5.11
4800.0	12.07	22.35	14.70	32.14	1.73	0.94	24.65	11.90	5.16
5000.0	11.98	22.55	14.27	31.29	1.78	0.95	23.95	11.46	5.25
5200.0	12.09	23.22	13.77	26.19	1.87	0.96	23.72	11.05	5.24
5400.0	11.85	22.86	13.93	28.09	1.85	0.96	22.88	10.45	5.48
5600.0	11.99	23.50	13.13	24.34	1.92	0.97	22.73	10.45	5.44
5800.0	11.91	23.25	13.36	24.77	1.90	0.96	22.01	9.85	5.49
6000.0	12.00	24.06	12.16	22.17	2.01	0.99	21.62	9.40	5.52
6200.0	12.04	24.03	12.23	21.23	2.00	0.98	21.17	9.08	5.55
6400.0	12.03	24.30	11.94	21.32	2.04	0.99	20.72	8.73	5.63
6600.0	12.04	24.55	11.80	20.74	2.09	0.99	20.28	8.31	5.61
6800.0	12.14	24.25	12.28	21.55	2.02	0.98	19.54	7.97	5.78
7000.0	12.15	24.41	12.26	21.32	2.06	0.98	19.32	7.61	5.79

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 = 65mA, Vd = 4.7V @ 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)
20.0	14.51	19.02	44.21	42.81	1.14	0.65	34.68	16.85	3.61
30.0	14.52	19.06	55.49	43.36	1.14	0.65	32.22	16.99	3.64
40.0	14.51	19.05	46.56	44.04	1.14	0.65	41.29	17.11	3.60
50.0	14.51	19.06	41.86	45.27	1.14	0.65	39.39	17.20	3.63
60.0	14.50	19.05	41.31	47.30	1.14	0.65	42.36	18.47	3.57
70.0	14.49	19.05	40.13	51.80	1.14	0.65	42.44	18.43	3.60
80.0	14.49	19.05	40.70	59.47	1.14	0.65	32.88	18.40	3.58
90.0	14.49	19.07	40.38	59.78	1.14	0.65	38.05	18.41	3.59
100.0	14.48	19.07	38.90	56.32	1.14	0.65	35.04	18.38	3.54
200.0	14.45	19.10	38.04	43.78	1.15	0.66	35.45	18.19	3.50
300.0	14.41	19.05	40.08	34.93	1.15	0.66	40.98	18.23	3.60
400.0	14.37	19.09	36.56	32.56	1.15	0.66	38.09	18.36	3.69
500.0	14.33	19.07	36.82	32.42	1.15	0.66	36.08	18.30	3.68
600.0	14.28	19.08	34.25	31.27	1.16	0.67	37.39	18.33	3.68
700.0	14.24	19.10	33.37	31.11	1.16	0.67	36.82	18.30	3.66
800.0	14.20	19.13	33.14	30.04	1.16	0.68	37.26	18.27	3.62
900.0	14.15	19.15	31.67	28.42	1.17	0.68	36.22	18.14	3.67
1000.0	14.11	19.17	30.91	27.24	1.17	0.69	33.12	18.09	3.65
1200.0	14.02	19.23	29.19	25.35	1.18	0.70	36.55	18.19	3.61
1400.0	13.93	19.30	27.49	25.01	1.20	0.71	35.05	18.05	3.66
1600.0	13.82	19.36	26.70	24.45	1.21	0.72	36.31	17.94	3.67
1800.0	13.72	19.44	26.22	24.73	1.22	0.73	35.04	17.61	3.68
2000.0	13.62	19.53	25.20	25.35	1.24	0.74	33.80	17.42	3.68
2200.0	13.52	19.67	24.57	25.92	1.26	0.76	33.88	17.13	3.73
2400.0	13.42	19.75	23.94	27.06	1.27	0.77	32.71	16.64	3.71
2600.0	13.32	19.91	23.35	29.48	1.30	0.78	31.29	16.19	3.80
2800.0	13.21	20.02	22.67	31.58	1.32	0.79	30.45	15.78	3.89
3000.0	13.12	20.22	22.17	34.73	1.35	0.81	30.80	15.39	3.84
3200.0	13.03	20.36	21.24	35.70	1.37	0.82	29.48	15.03	3.85
3400.0	12.93	20.51	20.33	36.18	1.40	0.83	28.72	14.58	3.85
3600.0	12.83	20.77	19.63	36.46	1.44	0.85	28.08	14.16	3.93
3800.0	12.73	20.95	18.75	34.05	1.47	0.86	27.41	13.86	3.95
4000.0	12.63	21.12	18.01	34.05	1.50	0.87	27.39	13.50	3.90
4200.0	12.59	21.34	17.17	37.36	1.53	0.88	26.85	13.15	4.00
4400.0	12.50	21.59	16.31	37.79	1.57	0.90	26.28	12.93	4.02
4600.0	12.37	21.93	16.35	31.70	1.64	0.91	26.30	12.61	4.09
4800.0	12.29	21.98	15.39	34.43	1.65	0.92	25.47	12.23	4.14
5000.0	12.32	22.42	14.73	31.65	1.71	0.93	25.08	11.85	4.17
5200.0	12.15	22.40	14.17	34.59	1.72	0.94	24.82	11.34	4.20
5400.0	12.24	22.90	13.96	28.27	1.79	0.95	23.92	10.86	4.36
5600.0	12.23	23.10	13.05	26.59	1.81	0.96	23.95	10.81	4.33
5800.0	12.19	23.24	12.97	25.83	1.84	0.96	22.96	10.15	4.43
6000.0	12.29	23.65	12.42	23.32	1.88	0.97	22.52	9.75	4.41
6200.0	12.41	23.96	12.00	22.08	1.91	0.98	22.02	9.44	4.42
6400.0	12.25	23.60	12.21	24.08	1.87	0.98	21.53	9.08	4.55
6600.0	12.41	23.84	12.24	22.65	1.89	0.97	21.15	8.71	4.50
6800.0	12.49	24.27	11.87	21.87	1.95	0.98	20.51	8.27	4.59
7000.0	12.61	24.05	12.51	21.69	1.90	0.97	20.12	7.96	4.60

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 = 52mA, Vd = 4.58V @ 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)
20.0	14.41	18.99	44.30	53.44	1.14	0.65	30.85	15.32	3.52
30.0	14.41	18.98	41.30	52.51	1.14	0.65	32.75	15.36	3.55
40.0	14.41	18.98	38.37	52.72	1.14	0.65	33.86	15.28	3.53
50.0	14.40	18.97	36.05	48.97	1.14	0.65	32.53	15.35	3.55
60.0	14.39	18.97	35.94	46.08	1.14	0.65	35.47	16.70	3.46
70.0	14.39	18.97	35.70	43.77	1.14	0.65	37.74	16.69	3.52
80.0	14.39	18.97	35.97	41.83	1.14	0.65	31.97	16.58	3.44
90.0	14.38	18.99	35.47	41.01	1.14	0.65	33.08	16.60	3.47
100.0	14.38	18.99	34.39	40.01	1.14	0.65	34.12	16.57	3.45
200.0	14.34	19.01	34.23	38.25	1.15	0.66	33.31	16.31	3.43
300.0	14.31	19.01	39.60	37.80	1.15	0.66	33.25	16.35	3.57
400.0	14.27	18.99	37.35	35.72	1.15	0.66	35.77	16.58	3.58
500.0	14.23	19.00	38.31	35.66	1.15	0.67	32.57	16.48	3.60
600.0	14.19	19.01	35.28	33.92	1.16	0.67	32.93	16.54	3.58
700.0	14.14	19.03	33.87	33.17	1.16	0.67	33.91	16.55	3.60
800.0	14.11	19.03	33.47	31.87	1.16	0.68	34.73	16.53	3.54
900.0	14.05	19.07	32.14	29.96	1.17	0.68	33.56	16.27	3.57
1000.0	14.01	19.09	31.53	28.64	1.17	0.69	32.49	16.26	3.57
1200.0	13.92	19.13	30.18	26.59	1.18	0.70	33.53	16.54	3.52
1400.0	13.83	19.21	28.36	26.27	1.20	0.71	32.91	16.34	3.60
1600.0	13.73	19.29	27.41	25.64	1.21	0.72	34.04	16.49	3.58
1800.0	13.63	19.36	26.77	26.00	1.22	0.73	32.99	16.40	3.59
2000.0	13.53	19.47	25.55	26.67	1.24	0.74	32.01	16.04	3.61
2200.0	13.43	19.56	24.76	27.40	1.26	0.76	31.91	15.93	3.64
2400.0	13.33	19.70	23.93	28.59	1.28	0.77	30.04	15.69	3.83
2600.0	13.22	19.83	23.19	31.83	1.30	0.78	29.70	15.29	3.69
2800.0	13.12	19.96	22.37	34.17	1.32	0.80	29.71	14.90	3.81
3000.0	13.02	20.13	21.77	38.38	1.35	0.81	29.17	14.50	3.71
3200.0	12.94	20.25	20.88	38.76	1.37	0.82	28.33	14.14	3.74
3400.0	12.84	20.46	19.96	39.49	1.40	0.84	27.61	13.75	3.70
3600.0	12.73	20.68	19.28	37.36	1.44	0.85	26.89	13.37	3.81
3800.0	12.63	20.87	18.38	34.34	1.47	0.86	26.67	13.06	3.82
4000.0	12.53	21.07	17.69	34.62	1.50	0.87	26.00	12.69	3.77
4200.0	12.49	21.27	16.82	37.47	1.53	0.89	25.50	12.32	3.85
4400.0	12.39	21.49	15.95	36.12	1.57	0.90	25.43	12.09	3.94
4600.0	12.27	21.84	15.94	31.32	1.64	0.91	24.94	11.73	3.96
4800.0	12.18	21.91	15.06	33.19	1.65	0.92	24.38	11.38	3.99
5000.0	12.20	22.35	14.36	30.44	1.71	0.94	23.95	10.99	4.04
5200.0	12.03	22.33	13.85	32.57	1.72	0.95	23.53	10.49	4.07
5400.0	12.09	22.78	13.62	27.17	1.78	0.95	22.74	10.01	4.25
5600.0	12.08	23.05	12.73	25.76	1.82	0.97	22.85	9.95	4.21
5800.0	12.05	23.13	12.64	25.18	1.83	0.97	21.88	9.33	4.27
6000.0	12.13	23.58	12.08	22.70	1.89	0.98	21.45	8.92	4.26
6200.0	12.24	23.91	11.61	21.59	1.92	0.99	20.97	8.60	4.31
6400.0	12.11	23.48	11.99	23.28	1.87	0.98	20.43	8.26	4.38
6600.0	12.24	23.73	11.88	22.13	1.89	0.98	20.08	7.88	4.36
6800.0	12.28	24.21	11.54	21.39	1.97	0.99	19.46	7.45	4.44
7000.0	12.41	23.96	12.16	21.39	1.91	0.97	19.04	7.13	4.42

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: Id = 78mA, Vd = 4.83V @ 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)
20.0	14.57	19.12	39.41	37.17	1.14	0.65	34.05	17.36	3.71
30.0	14.59	19.13	44.80	37.85	1.14	0.65	34.11	17.59	3.72
40.0	14.58	19.12	55.16	37.96	1.14	0.65	38.12	18.12	3.73
50.0	14.58	19.13	47.42	38.67	1.14	0.65	37.74	18.20	3.74
60.0	14.57	19.08	44.40	39.98	1.14	0.65	41.19	19.19	3.67
70.0	14.56	19.11	42.94	41.35	1.14	0.65	37.84	19.08	3.71
80.0	14.56	19.13	44.03	42.76	1.14	0.65	33.13	19.16	3.67
90.0	14.56	19.12	46.27	43.82	1.14	0.65	35.01	19.12	3.67
100.0	14.55	19.12	43.94	45.38	1.14	0.65	40.68	19.08	3.65
200.0	14.51	19.12	42.66	42.44	1.14	0.65	40.23	19.26	3.64
300.0	14.48	19.14	38.22	32.77	1.15	0.66	37.78	19.35	3.72
400.0	14.43	19.16	35.08	30.75	1.15	0.66	37.52	19.38	3.79
500.0	14.39	19.15	34.62	30.61	1.15	0.66	37.07	19.45	3.81
600.0	14.35	19.16	32.99	29.65	1.16	0.67	41.80	19.46	3.79
700.0	14.31	19.16	32.52	29.55	1.16	0.67	38.81	19.39	3.80
800.0	14.27	19.16	32.31	28.98	1.16	0.67	44.18	19.38	3.72
900.0	14.22	19.19	30.90	27.44	1.17	0.68	37.93	19.36	3.50
1000.0	14.17	19.22	30.25	26.31	1.17	0.68	39.49	19.27	3.70
1200.0	14.08	19.25	28.34	24.57	1.18	0.69	37.90	19.14	3.66
1400.0	13.99	19.34	26.86	24.23	1.19	0.70	41.33	19.00	3.77
1600.0	13.88	19.39	26.08	23.65	1.20	0.71	36.40	18.66	3.77
1800.0	13.79	19.50	25.72	23.96	1.22	0.73	37.54	18.19	3.76
2000.0	13.69	19.60	24.86	24.51	1.24	0.74	36.96	18.06	3.77
2200.0	13.59	19.71	24.29	25.10	1.26	0.75	34.80	17.74	3.83
2400.0	13.49	19.85	23.78	26.06	1.28	0.77	33.12	17.22	3.84
2600.0	13.38	19.97	23.38	28.27	1.30	0.78	33.27	16.79	3.90
2800.0	13.28	20.12	22.79	30.07	1.32	0.80	31.57	16.41	3.99
3000.0	13.18	20.24	22.37	32.71	1.34	0.81	31.26	16.08	3.99
3200.0	13.10	20.40	21.48	33.66	1.37	0.82	30.67	15.73	3.95
3400.0	13.00	20.59	20.57	34.19	1.40	0.83	29.58	15.29	3.96
3600.0	12.90	20.81	19.90	34.86	1.43	0.85	28.74	14.89	4.08
3800.0	12.80	20.98	19.01	33.09	1.46	0.86	28.45	14.58	4.05
4000.0	12.71	21.18	18.24	33.07	1.50	0.87	28.06	14.20	4.06
4200.0	12.67	21.41	17.43	36.02	1.53	0.88	27.41	13.87	4.11
4400.0	12.58	21.61	16.54	37.29	1.56	0.90	27.33	13.68	4.21
4600.0	12.45	21.99	16.64	31.36	1.64	0.91	26.99	13.36	4.21
4800.0	12.38	22.05	15.67	34.43	1.65	0.92	26.78	13.01	4.27
5000.0	12.41	22.48	14.99	32.07	1.70	0.93	25.92	12.62	4.28
5200.0	12.25	22.49	14.41	35.68	1.72	0.94	25.57	12.10	4.35
5400.0	12.34	22.90	14.27	28.90	1.77	0.95	24.89	11.62	4.52
5600.0	12.34	23.15	13.33	27.16	1.80	0.96	24.96	11.59	4.52
5800.0	12.31	23.22	13.21	26.36	1.82	0.96	24.00	10.93	4.57
6000.0	12.41	23.73	12.71	23.73	1.88	0.97	23.61	10.51	4.58
6200.0	12.54	24.06	12.29	22.35	1.91	0.98	23.03	10.19	4.60
6400.0	12.38	23.62	12.44	24.14	1.86	0.97	22.64	9.85	4.69
6600.0	12.55	23.85	12.54	22.89	1.87	0.97	22.22	9.45	4.68
6800.0	12.65	24.38	12.17	22.28	1.95	0.98	21.44	9.02	4.77
7000.0	12.78	24.08	12.77	21.75	1.88	0.96	21.05	8.69	4.81

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 = 65mA, Vd = 4.28V @ 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)
20.0	14.34	18.98	42.09	43.89	1.15	0.66	35.09	15.99	4.60
30.0	14.35	18.97	49.17	43.52	1.14	0.65	34.39	16.21	4.70
40.0	14.34	19.02	46.96	41.53	1.15	0.66	33.16	16.61	4.68
50.0	14.34	19.02	62.62	41.07	1.15	0.66	34.69	16.67	4.69
60.0	14.33	19.01	47.96	40.03	1.15	0.66	36.02	17.76	4.62
70.0	14.32	19.02	42.99	39.22	1.15	0.66	33.60	17.66	4.66
80.0	14.32	19.00	41.14	38.31	1.15	0.66	36.70	17.72	4.62
90.0	14.32	19.02	40.02	36.94	1.15	0.66	35.83	17.69	4.64
100.0	14.31	19.01	40.00	36.18	1.15	0.66	34.23	17.65	4.60
200.0	14.26	19.04	34.72	33.20	1.15	0.67	33.86	17.73	4.64
300.0	14.22	19.03	36.19	34.62	1.16	0.67	34.73	17.77	4.74
400.0	14.16	19.05	36.42	35.63	1.16	0.68	36.01	17.79	4.83
500.0	14.11	19.05	34.65	34.20	1.17	0.68	34.05	17.78	4.87
600.0	14.05	19.09	33.35	32.69	1.17	0.69	33.14	17.70	4.87
700.0	14.01	19.11	32.81	32.04	1.18	0.69	35.41	17.64	4.89
800.0	13.96	19.14	32.29	31.25	1.18	0.70	33.80	17.59	4.83
900.0	13.90	19.16	31.64	30.54	1.19	0.70	32.49	17.56	4.87
1000.0	13.85	19.20	31.67	29.76	1.19	0.71	31.99	17.45	4.80
1200.0	13.75	19.25	30.60	28.42	1.21	0.72	33.82	17.26	4.84
1400.0	13.64	19.36	29.43	27.55	1.22	0.73	32.91	17.05	4.93
1600.0	13.53	19.43	28.55	27.14	1.24	0.74	32.24	16.73	4.91
1800.0	13.41	19.56	27.50	26.93	1.26	0.76	30.53	16.21	4.97
2000.0	13.30	19.64	26.36	27.40	1.28	0.77	30.24	16.01	4.99
2200.0	13.19	19.78	25.40	28.62	1.30	0.78	29.79	15.65	5.02
2400.0	13.07	19.92	24.61	30.43	1.32	0.80	28.99	15.12	5.06
2600.0	12.95	20.07	23.58	32.61	1.35	0.81	28.35	14.64	5.13
2800.0	12.83	20.24	22.59	35.22	1.38	0.82	27.24	14.18	5.19
3000.0	12.71	20.43	21.53	39.81	1.41	0.84	26.88	13.78	5.21
3200.0	12.61	20.60	20.34	40.74	1.44	0.85	26.01	13.42	5.21
3400.0	12.48	20.82	19.39	38.64	1.48	0.86	25.36	13.05	5.24
3600.0	12.36	21.04	18.43	35.20	1.52	0.88	25.02	12.59	5.36
3800.0	12.27	21.31	17.31	33.72	1.57	0.89	24.43	12.18	5.38
4000.0	12.14	21.52	16.47	31.95	1.61	0.90	23.83	11.77	5.37
4200.0	12.04	21.79	15.62	30.85	1.66	0.92	23.66	11.36	5.46
4400.0	11.93	22.08	14.88	29.86	1.71	0.93	23.27	11.04	5.54
4600.0	11.79	22.20	14.08	29.93	1.75	0.95	22.75	10.68	5.62
4800.0	11.69	22.49	13.48	28.30	1.80	0.96	22.36	10.29	5.71
5000.0	11.57	22.74	12.91	26.96	1.86	0.97	21.60	9.74	5.76
5200.0	11.40	22.85	12.66	26.98	1.90	0.98	21.51	9.41	5.79
5400.0	11.42	23.27	12.44	24.11	1.97	0.98	20.66	8.79	5.98
5600.0	11.36	23.37	12.42	23.74	2.01	0.98	20.39	8.70	5.99
5800.0	11.24	23.79	11.58	22.62	2.09	1.00	19.88	8.26	6.05
6000.0	11.37	24.31	11.30	20.14	2.16	1.01	19.51	7.73	6.07
6200.0	11.25	23.82	11.72	21.67	2.10	1.00	18.95	7.42	6.17
6400.0	11.22	24.57	11.16	20.57	2.25	1.01	18.48	7.10	6.22
6600.0	11.27	24.76	11.30	19.86	2.29	1.01	18.11	6.71	6.22
6800.0	11.38	23.95	12.31	20.23	2.12	0.98	17.47	6.43	6.38
7000.0	11.35	23.85	12.38	18.90	2.11	0.98	17.27	6.01	6.33

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 = 52mA, Vd = 4.16V @ 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)
20.0	14.22	18.94	47.55	43.42	1.15	0.66	31.96	14.94	4.52
30.0	14.23	18.90	43.50	45.70	1.15	0.66	39.70	15.06	4.57
40.0	14.22	18.92	40.06	48.36	1.15	0.66	35.24	15.11	4.56
50.0	14.21	18.88	40.48	51.06	1.15	0.66	35.23	15.18	4.58
60.0	14.20	18.88	42.76	49.24	1.15	0.66	34.27	16.47	4.49
70.0	14.20	18.89	45.88	49.92	1.15	0.66	30.99	16.44	4.56
80.0	14.19	18.92	51.90	47.99	1.15	0.66	31.43	16.40	4.49
90.0	14.19	18.93	60.37	46.01	1.15	0.66	32.88	16.41	4.51
100.0	14.19	18.91	58.88	44.78	1.15	0.66	31.26	16.38	4.52
200.0	14.14	18.92	38.35	38.60	1.16	0.67	31.92	16.22	4.49
300.0	14.09	18.94	38.43	41.67	1.16	0.67	31.95	16.23	4.76
400.0	14.04	18.94	37.07	42.17	1.16	0.68	32.95	16.34	4.71
500.0	13.99	18.97	35.26	38.48	1.17	0.68	32.60	16.26	4.74
600.0	13.93	19.00	33.54	35.90	1.18	0.69	32.46	16.27	4.74
700.0	13.89	18.99	32.96	34.69	1.18	0.69	32.01	16.23	4.76
800.0	13.84	19.03	32.28	33.41	1.18	0.70	32.01	16.21	4.75
900.0	13.78	19.05	31.65	32.56	1.19	0.70	31.50	16.04	4.72
1000.0	13.73	19.09	31.44	31.63	1.20	0.71	30.46	15.98	4.72
1200.0	13.63	19.15	30.62	30.16	1.21	0.72	32.39	16.06	4.78
1400.0	13.53	19.25	29.58	29.29	1.22	0.73	31.03	15.87	4.79
1600.0	13.41	19.33	28.69	28.91	1.24	0.74	30.68	15.75	4.81
1800.0	13.30	19.43	27.56	28.83	1.26	0.76	30.51	15.44	4.84
2000.0	13.19	19.54	26.30	29.47	1.28	0.77	28.75	15.15	4.83
2200.0	13.08	19.69	25.25	31.00	1.30	0.78	28.90	14.83	4.88
2400.0	12.96	19.80	24.25	33.41	1.32	0.80	27.54	14.35	4.85
2600.0	12.84	19.97	23.19	36.72	1.35	0.81	27.05	13.86	4.99
2800.0	12.71	20.16	22.14	41.02	1.38	0.83	26.27	13.39	5.09
3000.0	12.60	20.33	21.09	45.63	1.41	0.84	25.88	12.96	5.03
3200.0	12.49	20.50	19.92	40.72	1.44	0.85	24.86	12.57	5.05
3400.0	12.36	20.72	18.96	37.13	1.48	0.87	24.51	12.22	5.09
3600.0	12.24	20.97	18.03	33.32	1.53	0.88	24.01	11.79	5.14
3800.0	12.14	21.17	16.95	31.86	1.56	0.89	23.61	11.36	5.22
4000.0	12.01	21.45	16.12	30.49	1.62	0.91	22.98	10.93	5.22
4200.0	11.91	21.66	15.28	29.47	1.65	0.92	22.58	10.55	5.30
4400.0	11.80	21.99	14.57	28.45	1.72	0.94	22.22	10.19	5.40
4600.0	11.65	22.14	13.78	28.45	1.75	0.95	21.73	9.84	5.41
4800.0	11.55	22.43	13.18	27.01	1.81	0.96	21.29	9.43	5.48
5000.0	11.42	22.68	12.65	25.84	1.87	0.97	20.49	8.90	5.58
5200.0	11.25	22.80	12.41	25.63	1.91	0.98	20.42	8.57	5.62
5400.0	11.26	23.20	12.18	23.38	1.98	0.99	19.53	7.94	5.83
5600.0	11.16	23.18	12.14	23.44	2.00	0.99	19.27	7.87	5.79
5800.0	11.08	23.70	11.28	21.73	2.09	1.01	18.78	7.42	5.84
6000.0	11.18	24.18	11.07	19.65	2.16	1.01	18.36	6.90	5.86
6200.0	11.05	23.74	11.41	21.07	2.11	1.00	17.84	6.61	5.98
6400.0	11.03	24.45	10.89	19.99	2.26	1.02	17.45	6.27	5.97
6600.0	11.06	24.63	11.06	19.43	2.30	1.01	17.06	5.92	5.99
6800.0	11.14	23.85	12.00	20.20	2.14	0.99	16.42	5.61	6.13
7000.0	11.12	23.70	12.19	18.87	2.12	0.98	16.23	5.16	6.09

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 = 78mA, Vd = 4.41V @ 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)
20.0	14.42	18.98	36.76	37.72	1.14	0.65	33.27	16.24	4.73
30.0	14.43	19.06	40.00	37.10	1.15	0.66	33.61	16.48	4.79
40.0	14.42	19.05	40.43	36.09	1.15	0.66	36.28	17.07	4.80
50.0	14.42	19.09	42.16	35.64	1.15	0.66	37.70	17.11	4.83
60.0	14.41	19.07	39.30	35.24	1.15	0.66	39.67	18.05	4.73
70.0	14.40	19.08	37.53	34.81	1.15	0.66	37.71	17.93	4.79
80.0	14.40	19.09	36.07	34.27	1.15	0.66	36.87	18.03	4.77
90.0	14.39	19.07	35.51	33.44	1.15	0.66	35.99	17.99	4.74
100.0	14.39	19.09	35.22	32.96	1.15	0.66	38.30	17.94	4.74
200.0	14.34	19.12	32.28	30.62	1.15	0.67	37.46	18.18	4.72
300.0	14.29	19.12	34.00	31.88	1.16	0.67	36.29	18.33	4.93
400.0	14.23	19.13	34.27	32.60	1.16	0.68	38.56	18.38	4.94
500.0	14.18	19.16	33.08	31.80	1.17	0.68	39.75	18.46	4.96
600.0	14.13	19.17	32.13	30.68	1.17	0.69	38.59	18.44	4.99
700.0	14.08	19.19	31.88	30.22	1.18	0.69	38.67	18.37	5.00
800.0	14.03	19.21	31.45	29.67	1.18	0.70	37.92	18.30	4.93
900.0	13.97	19.22	31.02	29.08	1.19	0.70	35.40	18.42	4.98
1000.0	13.92	19.27	31.03	28.45	1.19	0.71	33.45	18.23	4.99
1200.0	13.82	19.33	30.00	27.22	1.21	0.72	35.54	17.83	5.04
1400.0	13.71	19.42	28.94	26.44	1.22	0.73	34.54	17.62	5.05
1600.0	13.60	19.51	28.13	25.98	1.24	0.74	34.30	17.22	5.05
1800.0	13.48	19.61	27.13	25.86	1.26	0.75	31.79	16.65	5.09
2000.0	13.37	19.70	26.03	26.22	1.28	0.77	31.90	16.53	5.09
2200.0	13.26	19.82	25.30	27.22	1.30	0.78	30.01	16.17	5.18
2400.0	13.14	19.99	24.59	28.74	1.32	0.79	29.65	15.63	5.15
2600.0	13.02	20.15	23.63	30.59	1.35	0.81	29.23	15.18	5.27
2800.0	12.90	20.30	22.73	32.76	1.38	0.82	28.15	14.75	5.38
3000.0	12.79	20.49	21.73	35.73	1.41	0.84	27.62	14.37	5.30
3200.0	12.68	20.68	20.50	37.31	1.44	0.85	27.04	14.02	5.36
3400.0	12.55	20.89	19.54	37.38	1.48	0.86	26.44	13.66	5.40
3600.0	12.43	21.14	18.61	34.80	1.53	0.88	25.74	13.23	5.52
3800.0	12.34	21.32	17.52	33.84	1.56	0.89	25.48	12.79	5.51
4000.0	12.22	21.58	16.64	32.18	1.61	0.90	24.75	12.40	5.56
4200.0	12.12	21.83	15.79	31.27	1.65	0.92	24.49	12.01	5.66
4400.0	12.02	22.14	15.03	30.29	1.71	0.93	24.10	11.71	5.72
4600.0	11.87	22.31	14.28	30.43	1.75	0.94	23.68	11.37	5.81
4800.0	11.78	22.59	13.66	28.94	1.81	0.96	23.33	10.94	5.88
5000.0	11.66	22.79	13.07	27.69	1.85	0.97	22.51	10.44	5.96
5200.0	11.47	22.85	12.89	28.22	1.89	0.98	22.37	10.14	6.01
5400.0	11.52	23.37	12.60	24.51	1.98	0.98	21.48	9.52	6.18
5600.0	11.53	23.65	12.53	23.16	2.03	0.98	21.36	9.43	6.18
5800.0	11.33	23.69	11.91	23.59	2.06	1.00	20.75	8.98	6.29
6000.0	11.48	24.40	11.47	20.43	2.16	1.00	20.36	8.48	6.28
6200.0	11.41	23.80	12.00	21.73	2.07	0.99	19.76	8.14	6.36
6400.0	11.37	24.53	11.42	20.73	2.22	1.01	19.32	7.80	6.43
6600.0	11.40	24.83	11.51	20.20	2.28	1.01	18.99	7.43	6.47
6800.0	11.55	24.01	12.52	19.84	2.10	0.98	18.34	7.11	6.57
7000.0	11.49	24.01	12.49	18.77	2.11	0.97	18.13	6.72	6.60