Typical Performance Data

VDS (V)	IDS (mA) @ VGS =				
	0.40 V	0.50 V	0.60 V	0.70 V	0.80 V
0.00	0.16	0.33	0.41	0.34	0.67
0.20	27.52	113.78	205.30	247.06	262.64
0.40	30.52	132.94	315.00	451.22	505.78
0.60	32.81	140.92	340.26	564.70	706.02
0.80	34.71	147.72	352.64	597.72	827.84
1.00	36.21	153.76	362.96	613.36	871.08
1.20	37.44	159.22	372.16	626.06	890.00
1.40	38.59	164.06	380.58	637.66	905.24
1.60	39.70	168.96	388.90	649.10	918.82
1.80	41.05	169.88	397.98	662.06	930.96
2.00	42.45	178.96	407.42	672.94	943.62
2.20	43.86	186.16	417.00	684.04	952.32
2.40	45.27	192.22	426.70	695.06	960.20
2.60	46.69	197.76	436.18	706.00	966.88
2.80	48.10	203.12	445.70	716.78	972.02
3.00	49.49	208.40	455.12	727.24	975.44
3.20	50.88	213.58	464.68	737.18	976.68
3.40	52.30	218.82	474.30	747.60	975.60
3.60	53.70	224.12	484.14	755.82	971.46
3.80	55.23	229.52	494.06	763.14	966.00
4.00	56.77	235.06	504.52	769.52	958.54
4.20	58.36	240.82	514.46	774.56	949.34
4.40	60.24	246.78	524.54	778.24	939.00
4.50	61.03	249.76	529.44	779.58	933.44
4.60	61.86	252.90	534.36	780.44	927.54
4.80	63.63	259.34	544.18	781.22	915.58
5.00	65.40	266.02	553.90	780.56	902.74
5.20	67.26	273.10	563.42	778.62	889.62
5.40	69.24	280.50	572.52	775.02	876.28
5.60	71.73	288.74	582.54	770.92	862.82
5.80	73.64	296.40	589.36	765.86	849.32
6.00	75.75	304.80	595.76	760.08	836.06
6.20	77.93	313.52	601.34	753.68	823.20
6.40	80.19	322.58	606.14	746.78	811.66
6.60	82.52	332.08	609.86	739.48	802.38
6.80	84.97	342.00	612.68	731.90	793.12
7.00	87.67	352.34	614.62	724.16	782.40

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 = 4.50V, Id = 281mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability	
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure
400	20.17	37.00	0.50	2.30	0.20	0.76
450	19.15	37.03	0.51	2.31	0.25	0.76
500	18.22	37.28	0.53	2.31	0.29	0.76
550	17.39	37.25	0.53	2.31	0.32	0.76
600	16.64	36.94	0.54	2.32	0.34	0.76
650	15.94	37.14	0.56	2.32	0.37	0.76
700	15.29	37.05	0.58	2.33	0.41	0.76
750	14.69	36.86	0.57	2.36	0.44	0.77
800	14.13	37.09	0.59	2.36	0.48	0.77
850	13.62	37.13	0.59	2.34	0.51	0.77
900	13.12	37.25	0.59	2.38	0.56	0.77
950	12.65	36.96	0.60	2.38	0.57	0.77
1000	12.21	37.07	0.61	2.38	0.61	0.77
1050	11.78	36.84	0.62	2.38	0.61	0.78
1100	11.37	36.96	0.63	2.39	0.69	0.78
1150	11.00	36.77	0.63	2.41	0.70	0.78
1200	10.62	36.58	0.64	2.42	0.72	0.78
1250	10.28	36.66	0.64	2.42	0.76	0.78
1300	9.95	36.73	0.65	2.42	0.80	0.78
1350	9.61	36.53	0.66	2.44	0.84	0.78
1400	9.31	36.78	0.65	2.44	0.88	0.79
1450	9.01	36.37	0.66	2.45	0.88	0.79
1500	8.73	36.55	0.67	2.46	0.95	0.79
1550	8.46	36.17	0.67	2.46	0.93	0.79
1600	8.20	36.29	0.67	2.46	0.95	0.79
1650	7.95	36.63	0.68	2.47	1.04	0.79
1700	7.71	36.23	0.68	2.47	1.03	0.79
1750	7.46	36.06	0.67	2.47	1.05	0.79
1800	7.24	36.24	0.68	2.47	1.07	0.79
1850	7.02	36.19	0.68	2.48	1.11	0.79
1900	6.80	35.80	0.68	2.48	1.09	0.79
1950	6.60	35.94	0.68	2.49	1.14	0.79
2000	6.40	35.77	0.68	2.48	1.13	0.79
2050	6.21	35.77	0.68	2.48	1.15	0.79
2100	6.02	35.66	0.68	2.50	1.16	0.80
2150	5.84	35.65	0.68	2.48	1.20	0.79
2200	5.67	35.40	0.67	2.49	1.16	0.80
2250	5.49	35.32	0.67	2.50	1.20	0.80
2300	5.32	35.46	0.66	2.50	1.21	0.80
2350	5.15	35.16	0.67	2.50	1.21	0.80
2400	5.00	35.23	0.66	2.49	1.24	0.80
2450	4.84	35.31	0.66	2.51	1.27	0.80
2500	4.70	35.05	0.66	2.49	1.26	0.80
2550	4.54	35.10	0.65	2.49	1.28	0.80
2600	4.41	35.01	0.65	2.49	1.28	0.80
2650	4.25	34.84	0.65	2.49	1.28	0.80
2700	4.11	34.86	0.66	2.50	1.33	0.80
2750	3.99	34.93	0.65	2.50	1.34	0.80
2800	3.84	34.73	0.65	2.49	1.33	0.80
2850	3.71	34.52	0.65	2.49	1.34	0.79
2900	3.58	34.46	0.65	2.50	1.33	0.80
2950	3.45	34.48	0.64	2.49	1.34	0.80
3000	3.32	34.42	0.66	2.48	1.35	0.80
3050	3.19	34.48	0.64	2.50	1.38	0.80
3100	3.06	34.38	0.65	2.49	1.40	0.80
3150	2.96	34.12	0.64	2.50	1.36	0.80
3200	2.82	34.07	0.65	2.50	1.40	0.80
3250	2.69	34.13	0.66	2.51	1.44	0.80
3300	2.58	34.03	0.65	2.51	1.44	0.80
3350	2.45	33.98	0.67	2.50	1.49	0.80
3400	2.33	33.91	0.66	2.52	1.47	0.80
3450	2.22	33.80	0.66	2.51	1.48	0.80
3500	2.08	33.82	0.68	2.52	1.54	0.80
3550	1.96	33.66	0.69	2.53	1.54	0.80
3600	1.86	33.61	0.68	2.52	1.55	0.80
3650	1.72	33.82	0.71	2.53	1.65	0.80
3700	1.62	33.57	0.69	2.54	1.61	0.80
3750	1.49	33.44	0.71	2.55	1.63	0.80
3800	1.39	33.41	0.71	2.55	1.67	0.80
3850	1.27	33.57	0.72	2.55	1.71	0.81
3900	1.14	33.34	0.73	2.56	1.72	0.81
3950	1.03	33.40	0.74	2.57	1.77	0.81
4000	0.91	33.26	0.75	2.56	1.81	0.80

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 = 4.50V, Id = 227mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability	
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure
400	20.43	37.02	0.49	2.41	0.21	0.79
450	19.42	36.84	0.50	2.41	0.25	0.78
500	18.49	36.91	0.52	2.41	0.26	0.79
550	17.67	36.98	0.53	2.41	0.30	0.79
600	16.92	36.95	0.53	2.42	0.32	0.79
650	16.21	36.96	0.55	2.42	0.33	0.80
700	15.57	37.01	0.57	2.43	0.40	0.79
750	14.97	36.75	0.56	2.45	0.41	0.80
800	14.41	36.66	0.58	2.46	0.45	0.79
850	13.90	36.84	0.57	2.44	0.48	0.79
900	13.39	36.69	0.58	2.47	0.49	0.80
950	12.93	36.64	0.58	2.48	0.52	0.80
1000	12.48	36.46	0.60	2.47	0.56	0.80
1050	12.06	36.63	0.61	2.48	0.60	0.80
1100	11.65	36.70	0.62	2.49	0.62	0.80
1150	11.27	36.48	0.62	2.50	0.66	0.80
1200	10.90	36.47	0.63	2.51	0.68	0.81
1250	10.55	36.51	0.63	2.51	0.70	0.81
1300	10.22	36.42	0.64	2.52	0.75	0.81
1350	9.88	36.19	0.65	2.53	0.78	0.81
1400	9.58	36.59	0.64	2.54	0.83	0.81
1450	9.28	36.25	0.65	2.55	0.84	0.81
1500	9.00	36.29	0.66	2.55	0.86	0.81
1550	8.73	36.19	0.66	2.54	0.91	0.81
1600	8.47	36.18	0.66	2.55	0.92	0.81
1650	8.21	35.83	0.67	2.56	0.93	0.81
1700	7.97	36.13	0.67	2.56	0.96	0.82
1750	7.73	35.88	0.66	2.56	0.96	0.82
1800	7.50	35.96	0.67	2.56	1.00	0.82
1850	7.28	35.82	0.67	2.57	1.02	0.82
1900	7.06	35.95	0.66	2.57	1.04	0.82
1950	6.86	35.85	0.67	2.58	1.06	0.82
2000	6.66	35.61	0.67	2.57	1.06	0.82
2050	6.47	35.59	0.66	2.56	1.09	0.82
2100	6.28	35.60	0.66	2.59	1.11	0.82
2150	6.09	35.55	0.66	2.56	1.12	0.82
2200	5.93	35.45	0.66	2.58	1.14	0.82
2250	5.75	35.26	0.66	2.59	1.15	0.82
2300	5.58	35.37	0.65	2.59	1.17	0.82
2350	5.41	35.23	0.66	2.58	1.17	0.82
2400	5.26	34.84	0.65	2.58	1.15	0.82
2450	5.10	35.10	0.65	2.59	1.19	0.82
2500	4.95	34.88	0.64	2.58	1.19	0.82
2550	4.80	35.01	0.64	2.57	1.22	0.82
2600	4.66	34.82	0.63	2.58	1.20	0.82
2650	4.52	34.74	0.63	2.57	1.21	0.82
2700	4.37	34.65	0.64	2.58	1.23	0.82
2750	4.24	34.60	0.63	2.58	1.25	0.82
2800	4.10	34.70	0.63	2.57	1.27	0.82
2850	3.97	34.46	0.64	2.57	1.26	0.82
2900	3.84	34.55	0.63	2.57	1.28	0.82
2950	3.71	34.35	0.62	2.57	1.26	0.82
3000	3.58	34.24	0.63	2.56	1.28	0.82
3050	3.45	34.24	0.62	2.58	1.28	0.82
3100	3.32	34.16	0.63	2.58	1.30	0.82
3150	3.21	34.12	0.61	2.58	1.30	0.82
3200	3.07	34.05	0.62	2.58	1.33	0.82
3250	2.95	34.00	0.64	2.59	1.36	0.82
3300	2.84	33.93	0.63	2.59	1.35	0.82
3350	2.70	33.90	0.64	2.58	1.39	0.82
3400	2.59	33.82	0.64	2.59	1.39	0.82
3450	2.48	33.74	0.63	2.58	1.39	0.82
3500	2.34	33.77	0.65	2.59	1.43	0.82
3550	2.23	33.65	0.66	2.61	1.46	0.82
3600	2.11	33.46	0.66	2.59	1.45	0.82
3650	1.98	33.58	0.67	2.61	1.52	0.82
3700	1.88	33.53	0.67	2.62	1.52	0.83
3750	1.75	33.41	0.68	2.61	1.54	0.82
3800	1.64	33.56	0.69	2.62	1.60	0.82
3850	1.53	33.30	0.68	2.63	1.58	0.83
3900	1.40	33.36	0.69	2.64	1.61	0.83
3950	1.29	33.14	0.70	2.63	1.63	0.83
4000	1.17	33.19	0.72	2.64	1.67	0.83

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 = 4.50V, Id = 309mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability	
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure
400	19.97	37.02	0.49	2.41	0.23	0.75
450	18.95	36.84	0.50	2.41	0.26	0.75
500	18.02	37.51	0.54	2.26	0.31	0.75
550	17.19	37.20	0.55	2.27	0.35	0.74
600	16.44	37.56	0.55	2.27	0.37	0.75
650	15.74	37.14	0.57	2.27	0.39	0.75
700	15.09	37.20	0.58	2.29	0.45	0.75
750	14.49	37.33	0.58	2.31	0.48	0.76
800	13.93	37.26	0.60	2.32	0.49	0.76
850	13.42	37.28	0.60	2.30	0.53	0.76
900	12.92	37.18	0.60	2.33	0.57	0.76
950	12.45	37.03	0.61	2.34	0.58	0.77
1000	12.01	36.97	0.62	2.33	0.63	0.76
1050	11.59	37.15	0.63	2.34	0.67	0.76
1100	11.18	36.93	0.64	2.35	0.69	0.76
1150	10.81	36.82	0.64	2.37	0.72	0.77
1200	10.43	36.93	0.65	2.38	0.77	0.77
1250	10.09	36.87	0.65	2.38	0.80	0.77
1300	9.76	36.82	0.66	2.38	0.84	0.77
1350	9.42	36.90	0.67	2.40	0.88	0.78
1400	9.13	36.65	0.66	2.40	0.90	0.77
1450	8.83	36.55	0.67	2.41	0.92	0.78
1500	8.54	36.45	0.68	2.42	0.96	0.78
1550	8.27	36.40	0.68	2.42	0.98	0.78
1600	8.02	36.60	0.68	2.42	1.01	0.78
1650	7.76	36.56	0.69	2.43	1.06	0.78
1700	7.52	36.38	0.69	2.43	1.08	0.78
1750	7.28	36.43	0.69	2.44	1.11	0.78
1800	7.06	36.21	0.69	2.44	1.12	0.78
1850	6.84	36.14	0.69	2.45	1.14	0.78
1900	6.62	36.23	0.69	2.44	1.16	0.78
1950	6.42	35.76	0.70	2.46	1.14	0.79
2000	6.22	35.70	0.69	2.44	1.17	0.78
2050	6.03	35.97	0.69	2.46	1.23	0.79
2100	5.84	35.83	0.69	2.47	1.24	0.79
2150	5.65	35.72	0.69	2.45	1.24	0.79
2200	5.49	35.49	0.69	2.46	1.24	0.79
2250	5.31	35.75	0.69	2.47	1.31	0.79
2300	5.14	35.53	0.68	2.47	1.27	0.79
2350	4.97	35.39	0.69	2.47	1.31	0.79
2400	4.82	35.36	0.69	2.47	1.30	0.79
2450	4.66	35.17	0.68	2.48	1.33	0.79
2500	4.52	35.14	0.68	2.48	1.32	0.79
2550	4.36	35.00	0.68	2.47	1.34	0.79
2600	4.23	34.91	0.67	2.47	1.31	0.79
2650	4.07	34.99	0.67	2.47	1.36	0.79
2700	3.92	34.85	0.68	2.48	1.38	0.79
2750	3.80	35.01	0.67	2.48	1.39	0.79
2800	3.65	34.74	0.68	2.47	1.41	0.79
2850	3.52	34.57	0.68	2.47	1.41	0.79
2900	3.39	34.75	0.68	2.48	1.45	0.79
2950	3.26	34.35	0.67	2.47	1.40	0.79
3000	3.13	34.41	0.69	2.47	1.44	0.79
3050	3.00	34.23	0.67	2.49	1.43	0.79
3100	2.87	34.30	0.68	2.49	1.48	0.79
3150	2.76	34.37	0.67	2.48	1.47	0.79
3200	2.62	34.11	0.68	2.49	1.48	0.79
3250	2.49	34.06	0.69	2.50	1.51	0.79
3300	2.38	34.08	0.69	2.50	1.53	0.80
3350	2.25	34.12	0.71	2.49	1.58	0.79
3400	2.13	33.86	0.70	2.50	1.57	0.80
3450	2.02	33.83	0.70	2.50	1.58	0.79
3500	1.88	33.87	0.72	2.50	1.64	0.79
3550	1.76	33.62	0.73	2.52	1.65	0.80
3600	1.65	33.56	0.73	2.51	1.65	0.79
3650	1.51	33.86	0.75	2.53	1.76	0.80
3700	1.41	33.61	0.74	2.54	1.73	0.80
3750	1.28	33.55	0.76	2.53	1.78	0.80
3800	1.17	33.48	0.76	2.55	1.80	0.80
3850	1.06	33.23	0.76	2.55	1.79	0.80
3900	0.93	33.44	0.77	2.56	1.86	0.80
3950	0.81	33.39	0.78	2.57	1.90	0.80
4000	0.69	33.45	0.80	2.57	1.97	0.80

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 = 4.50V, Id = 281mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
400	-44.12	84.21	0.08	0.09	481.91	0.04	-	-	-
450	-40.62	72.55	0.09	0.10	110.82	0.05	-	-	-
500	-37.67	70.71	0.10	0.11	69.97	0.05	-6.66	-22.23	32.89
550	-35.20	69.75	0.11	0.11	55.55	0.05	-6.82	-19.75	30.95
600	-32.58	73.58	0.10	0.11	63.04	0.05	3.28	-17.95	30.96
650	-30.16	74.62	0.08	0.11	43.32	0.05	2.33	-14.46	21.88
700	-28.16	70.71	0.12	0.16	42.43	0.07	5.73	-12.60	21.49
750	-25.80	73.08	0.13	0.17	47.36	0.07	9.86	-10.81	20.33
800	-23.62	72.22	0.13	0.19	38.61	0.08	15.74	-8.09	15.64
850	-21.52	70.39	0.14	0.21	29.31	0.09	15.84	-5.89	12.94
900	-19.44	72.17	0.15	0.24	34.66	0.10	19.37	-4.29	12.65
950	-17.39	70.16	0.16	0.27	24.87	0.12	19.53	-3.92	11.87
1000	-15.34	60.39	0.17	0.30	7.90	0.13	23.07	-2.94	8.36
1050	-13.32	61.69	0.18	0.36	9.28	0.16	27.97	0.58	7.79
1100	-11.29	59.78	0.21	0.44	7.91	0.19	27.46	3.72	7.78
1150	-9.23	56.36	0.24	0.53	5.54	0.22	30.72	4.27	6.20
1200	-7.17	54.32	0.27	0.66	4.54	0.27	32.56	4.46	5.89
1250	-5.08	52.22	0.33	0.82	4.06	0.33	34.74	6.94	5.75
1300	-2.94	50.15	0.38	1.04	3.64	0.41	35.48	9.00	5.37
1350	-0.78	47.35	0.47	1.34	2.85	0.51	34.76	11.80	5.48
1400	1.39	44.43	0.59	1.75	2.38	0.63	35.52	14.49	5.02
1450	3.56	41.57	0.76	2.30	2.03	0.77	34.62	15.34	4.18
1500	5.73	39.20	0.99	3.04	1.83	0.93	34.40	16.43	3.63
1550	7.80	37.09	1.32	4.02	1.78	1.09	35.97	18.56	3.13
1600	9.79	34.49	1.75	5.17	1.56	1.21	37.88	22.87	2.78
1650	11.66	32.24	2.34	6.37	1.45	1.27	37.55	24.95	2.37
1700	13.39	30.25	3.18	7.52	1.38	1.25	37.42	26.06	2.06
1750	14.98	28.35	4.43	8.63	1.31	1.16	38.41	27.11	1.96
1800	16.30	26.76	6.33	10.38	1.28	1.05	37.16	28.00	1.63
1850	17.16	25.51	8.29	14.51	1.23	0.99	40.89	28.57	1.56
1900	17.26	25.10	7.47	34.61	1.21	1.02	39.45	29.36	1.29
1950	16.50	25.61	4.90	15.44	1.20	1.10	39.89	29.07	1.27
2000	15.19	26.59	3.07	9.68	1.19	1.14	40.86	27.63	1.24
2050	13.66	27.80	2.02	7.02	1.19	1.14	37.72	27.10	1.31
2100	12.15	29.07	1.43	5.51	1.19	1.10	40.02	26.63	1.24
2150	10.73	30.18	1.08	4.54	1.20	1.04	40.44	26.11	1.62
2200	9.44	31.22	0.86	3.90	1.21	0.99	38.15	25.45	1.36
2250	8.28	32.06	0.71	3.43	1.21	0.94	36.71	24.49	1.38
2300	7.21	33.02	0.62	3.08	1.25	0.89	36.71	24.16	1.56
2350	6.26	33.43	0.54	2.80	1.22	0.84	36.69	22.31	1.64
2400	5.40	34.28	0.49	2.59	1.26	0.81	34.74	20.82	2.44
2450	4.60	34.66	0.45	2.43	1.26	0.78	33.46	19.87	2.61
2500	3.89	35.17	0.42	2.27	1.29	0.74	37.15	18.72	2.34
2550	3.25	35.33	0.39	2.15	1.26	0.72	35.09	17.75	2.28
2600	2.64	35.94	0.37	2.07	1.30	0.70	33.57	16.71	2.64
2650	2.08	36.56	0.34	1.98	1.32	0.68	33.45	16.07	3.19
2700	1.58	36.45	0.34	1.91	1.33	0.66	35.94	15.70	2.99
2750	1.12	36.88	0.33	1.84	1.39	0.65	32.23	15.28	3.02
2800	0.67	36.65	0.32	1.80	1.35	0.63	36.72	15.39	3.48
2850	0.27	37.15	0.32	1.74	1.39	0.62	33.20	15.69	3.66
2900	-0.09	37.11	0.31	1.70	1.39	0.61	34.43	15.35	3.57
2950	-0.44	37.20	0.30	1.67	1.40	0.60	34.10	13.86	3.79
3000	-0.77	37.49	0.30	1.66	1.44	0.60	34.46	13.81	4.27
3050	-1.04	37.42	0.29	1.62	1.42	0.59	34.09	12.99	3.98
3100	-1.31	37.47	0.30	1.61	1.44	0.59	32.87	11.98	4.25
3150	-1.57	37.79	0.30	1.58	1.51	0.58	36.11	12.28	4.05
3200	-1.82	37.32	0.30	1.58	1.49	0.58	34.35	11.14	4.75
3250	-2.02	37.95	0.30	1.55	1.54	0.57	33.64	17.38	4.12
3300	-2.22	37.50	0.31	1.54	1.54	0.56	33.75	17.65	5.43
3350	-2.40	37.45	0.31	1.56	1.57	0.57	33.46	17.11	4.74
3400	-2.59	37.50	0.32	1.55	1.64	0.57	33.52	17.28	5.27
3450	-2.71	37.61	0.31	1.54	1.61	0.57	33.97	17.05	5.12
3500	-2.87	37.40	0.32	1.53	1.63	0.56	32.31	17.13	5.07
3550	-3.00	37.34	0.33	1.55	1.68	0.57	33.55	16.61	4.69
3600	-3.13	37.17	0.33	1.55	1.67	0.57	33.74	16.97	5.88
3650	-3.22	37.30	0.34	1.55	1.70	0.57	33.85	16.48	5.83
3700	-3.32	37.09	0.35	1.55	1.72	0.57	32.27	15.85	5.44
3750	-3.39	37.12	0.35	1.56	1.75	0.57	33.99	16.64	5.09
3800	-3.46	37.16	0.35	1.57	1.76	0.58	34.07	15.77	6.13
3850	-3.53	36.29	0.38	1.58	1.76	0.57	31.88	15.60	5.12
3900	-3.58	36.70	0.37	1.59	1.81	0.58	33.94	16.53	5.33
3950	-3.61	36.44	0.38	1.59	1.79	0.58	31.98	15.84	5.89
4000	-3.64	36.39	0.39	1.62	1.83	0.59	33.61	16.32	5.25

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 = 4.50V, Id = 182mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
400	-43.29	84.21	0.08	0.09	75.94	0.04	-	-	-
450	-40.80	72.55	0.09	0.10	68.09	0.05	-	-	-
500	-37.54	73.45	0.09	0.11	91.30	0.05	-8.56	-22.57	30.85
550	-34.82	83.03	0.11	0.12	257.32	0.05	-3.81	-19.09	28.87
600	-32.33	65.81	0.10	0.12	26.12	0.05	-2.49	-19.09	28.89
650	-29.98	79.24	0.10	0.13	99.59	0.06	2.45	-14.10	20.53
700	-27.71	66.59	0.12	0.16	25.30	0.07	4.92	-11.95	20.23
750	-25.43	68.40	0.13	0.16	26.52	0.07	7.80	-11.10	17.95
800	-23.27	62.34	0.12	0.16	9.84	0.07	13.00	-8.46	17.50
850	-21.17	68.25	0.14	0.21	21.16	0.09	13.90	-5.80	14.09
900	-19.11	72.43	0.14	0.22	30.44	0.10	24.54	-4.79	13.51
950	-17.06	68.83	0.15	0.25	18.36	0.11	20.82	-4.25	12.80
1000	-15.09	66.93	0.18	0.31	16.44	0.13	24.37	-4.42	11.30
1050	-13.05	62.78	0.18	0.35	9.62	0.15	24.71	0.81	8.19
1100	-11.01	58.53	0.20	0.42	5.93	0.18	27.15	3.40	8.00
1150	-8.99	55.45	0.24	0.50	4.58	0.21	28.82	4.55	7.21
1200	-6.92	53.85	0.26	0.63	3.80	0.26	31.09	5.11	5.57
1250	-4.85	50.82	0.30	0.79	2.89	0.32	34.16	6.82	5.37
1300	-2.73	48.35	0.35	0.99	2.25	0.39	34.46	8.90	4.64
1350	-0.61	46.43	0.45	1.28	2.21	0.49	33.29	11.84	4.26
1400	1.52	44.35	0.56	1.69	2.06	0.62	32.91	13.39	3.45
1450	3.64	41.79	0.73	2.22	1.87	0.76	31.34	15.37	3.19
1500	5.75	39.38	0.93	2.92	1.66	0.91	31.69	16.65	2.87
1550	7.80	37.03	1.21	3.80	1.50	1.06	30.81	17.85	2.40
1600	9.76	34.44	1.61	4.80	1.35	1.18	33.24	20.91	2.00
1650	11.63	32.13	2.12	5.82	1.23	1.24	32.28	21.74	1.77
1700	13.37	30.23	2.85	6.75	1.20	1.23	33.53	23.42	1.48
1750	14.99	28.23	3.93	7.65	1.15	1.15	34.60	25.00	1.36
1800	16.43	26.48	5.51	9.04	1.11	1.05	34.47	28.28	1.31
1850	17.47	25.15	7.31	12.25	1.09	0.98	36.31	29.70	1.14
1900	17.73	24.61	6.99	22.58	1.08	1.01	36.08	30.22	0.85
1950	17.08	24.88	4.73	17.87	1.06	1.10	40.59	29.53	0.78
2000	15.78	25.92	2.93	10.53	1.06	1.16	40.85	25.83	0.80
2050	14.23	27.25	1.90	7.48	1.07	1.16	40.06	27.25	0.82
2100	12.66	28.47	1.33	5.79	1.07	1.13	38.96	26.39	0.77
2150	11.22	29.66	1.01	4.75	1.09	1.07	37.20	25.50	1.00
2200	9.90	30.77	0.81	4.06	1.11	1.01	36.50	24.70	0.94
2250	8.69	31.57	0.67	3.57	1.11	0.96	38.51	23.42	0.98
2300	7.62	32.50	0.59	3.21	1.14	0.91	36.08	21.84	1.04
2350	6.67	33.04	0.52	2.93	1.15	0.87	36.20	22.09	1.26
2400	5.77	33.70	0.48	2.71	1.17	0.83	33.64	21.59	1.50
2450	5.00	34.26	0.43	2.52	1.16	0.80	33.93	19.60	1.91
2500	4.27	35.02	0.40	2.37	1.23	0.77	36.67	18.61	1.75
2550	3.60	35.24	0.40	2.23	1.25	0.74	34.92	17.50	1.69
2600	3.01	35.80	0.37	2.13	1.27	0.72	33.69	16.50	2.10
2650	2.44	35.96	0.35	2.05	1.27	0.70	35.49	16.27	2.37
2700	1.94	36.18	0.35	1.98	1.31	0.68	32.23	15.76	2.42
2750	1.48	36.55	0.34	1.91	1.33	0.66	34.08	16.65	2.71
2800	1.03	36.86	0.33	1.86	1.33	0.65	33.31	16.47	2.56
2850	0.63	36.84	0.32	1.81	1.34	0.64	33.98	16.39	3.15
2900	0.27	36.95	0.32	1.76	1.34	0.63	34.15	15.53	3.04
2950	-0.08	37.37	0.31	1.73	1.40	0.62	34.58	13.76	3.22
3000	-0.39	37.08	0.32	1.69	1.38	0.61	35.15	13.96	3.59
3050	-0.68	37.41	0.31	1.66	1.42	0.60	33.36	13.82	2.88
3100	-0.95	37.56	0.30	1.64	1.43	0.60	35.15	13.54	3.08
3150	-1.20	37.70	0.30	1.63	1.44	0.59	34.75	12.47	2.85
3200	-1.44	37.67	0.30	1.62	1.49	0.59	32.28	11.53	2.80
3250	-1.65	37.27	0.30	1.60	1.46	0.58	32.73	18.09	3.60
3300	-1.85	37.90	0.31	1.59	1.53	0.58	32.85	17.95	2.97
3350	-2.03	37.38	0.31	1.57	1.47	0.58	34.33	17.44	4.13
3400	-2.19	37.24	0.31	1.57	1.50	0.58	32.96	17.28	4.02
3450	-2.35	37.38	0.32	1.56	1.54	0.57	33.11	16.04	4.12
3500	-2.48	37.28	0.32	1.56	1.51	0.57	33.86	16.45	3.37
3550	-2.62	37.31	0.32	1.57	1.58	0.58	33.70	16.61	3.73
3600	-2.73	37.18	0.33	1.58	1.56	0.58	34.29	16.06	3.86
3650	-2.86	36.79	0.34	1.57	1.58	0.58	33.39	16.33	4.56
3700	-2.94	37.36	0.34	1.57	1.66	0.57	33.44	16.25	3.71
3750	-3.03	36.84	0.37	1.58	1.69	0.57	32.92	16.01	4.24
3800	-3.10	36.67	0.35	1.59	1.65	0.58	34.16	15.69	4.76
3850	-3.16	36.79	0.37	1.59	1.69	0.58	32.19	15.57	4.85
3900	-3.22	36.50	0.37	1.61	1.64	0.59	32.55	16.15	4.21
3950	-3.28	36.43	0.37	1.61	1.69	0.58	34.61	16.51	4.94
4000	-3.33	36.08	0.39	1.64	1.71	0.59	32.21	16.03	3.87

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 = 4.50V, Id = 364mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
400	-43.41	84.21	0.08	0.09	172.22	0.06	-	-	-
450	-40.86	72.55	0.09	0.10	170.18	0.07	-	-	-
500	-37.66	75.86	0.12	0.16	240.94	0.07	-10.29	-22.91	32.56
550	-35.17	78.84	0.14	0.18	312.75	0.08	-2.66	-19.51	29.87
600	-32.65	69.97	0.14	0.18	87.75	0.08	4.71	-19.51	30.40
650	-30.35	77.65	0.14	0.19	170.88	0.08	-1.21	-14.52	22.22
700	-28.08	69.00	0.16	0.22	61.50	0.10	9.11	-12.36	21.72
750	-25.82	64.94	0.17	0.23	33.69	0.10	8.60	-11.51	18.58
800	-23.70	67.16	0.16	0.23	33.79	0.10	10.38	-8.85	18.45
850	-21.56	68.03	0.18	0.28	37.59	0.12	14.16	-6.17	14.97
900	-19.51	66.06	0.19	0.30	26.44	0.13	19.60	-5.16	14.66
950	-17.44	76.95	0.20	0.32	84.24	0.14	22.42	-4.61	13.57
1000	-15.43	65.40	0.22	0.39	22.88	0.17	25.07	-4.77	13.27
1050	-13.38	64.45	0.23	0.44	19.57	0.19	30.13	0.48	11.71
1100	-11.36	61.93	0.25	0.52	13.99	0.22	29.47	3.11	8.46
1150	-9.30	56.76	0.29	0.60	8.00	0.25	29.68	4.27	8.36
1200	-7.22	53.77	0.32	0.73	5.69	0.30	31.81	4.84	8.14
1250	-5.12	51.66	0.36	0.90	4.74	0.36	37.31	6.58	7.83
1300	-2.98	49.69	0.42	1.11	3.95	0.43	38.70	8.71	6.99
1350	-0.83	47.08	0.52	1.42	3.36	0.53	35.58	11.72	6.36
1400	1.33	44.50	0.65	1.84	2.85	0.65	37.23	13.34	5.47
1450	3.50	41.70	0.83	2.41	2.43	0.79	36.02	15.45	4.97
1500	5.65	39.50	1.06	3.16	2.19	0.94	36.29	16.79	4.40
1550	7.73	36.99	1.38	4.13	1.91	1.10	36.74	18.14	3.81
1600	9.72	34.65	1.84	5.28	1.75	1.21	37.00	21.54	3.34
1650	11.59	32.40	2.47	6.48	1.59	1.26	37.84	24.59	2.86
1700	13.31	30.56	3.39	7.62	1.54	1.23	37.41	26.22	2.51
1750	14.85	28.61	4.79	8.78	1.45	1.14	39.30	26.91	2.48
1800	16.12	26.96	6.89	10.65	1.38	1.03	43.08	27.85	2.08
1850	16.90	25.82	8.95	15.13	1.33	0.98	39.87	29.15	1.70
1900	16.90	25.56	7.72	34.68	1.31	1.03	39.82	29.43	1.63
1950	16.08	26.15	4.96	14.97	1.31	1.12	40.87	28.75	1.59
2000	14.75	27.03	3.13	9.64	1.29	1.16	37.92	27.16	1.61
2050	13.25	28.22	2.10	7.05	1.29	1.15	39.77	26.99	1.67
2100	11.75	29.51	1.50	5.56	1.30	1.11	40.26	26.35	1.70
2150	10.36	30.40	1.15	4.62	1.29	1.05	37.43	25.82	2.00
2200	9.09	31.54	0.94	3.98	1.33	1.00	39.64	24.54	2.00
2250	7.91	32.47	0.79	3.52	1.36	0.95	36.80	23.07	2.14
2300	6.88	33.04	0.69	3.17	1.37	0.90	37.26	21.50	2.25
2350	5.94	33.71	0.61	2.91	1.38	0.86	36.44	21.81	2.52
2400	5.07	34.43	0.57	2.69	1.43	0.83	35.33	21.30	2.90
2450	4.31	34.90	0.52	2.52	1.44	0.79	34.10	19.22	3.19
2500	3.60	35.52	0.49	2.37	1.48	0.77	37.56	18.15	2.84
2550	2.93	36.19	0.47	2.26	1.55	0.74	35.99	17.02	3.77
2600	2.36	36.30	0.45	2.16	1.54	0.72	34.33	15.98	3.75
2650	1.80	36.70	0.43	2.07	1.58	0.70	35.64	15.77	4.23
2700	1.30	36.69	0.42	1.99	1.57	0.68	32.51	15.25	4.27
2750	0.84	36.84	0.41	1.94	1.61	0.67	35.27	16.18	4.51
2800	0.40	37.21	0.40	1.88	1.65	0.65	33.92	16.00	4.52
2850	0.01	37.31	0.39	1.84	1.65	0.65	36.57	15.92	4.91
2900	-0.35	37.30	0.39	1.80	1.70	0.63	34.49	15.03	4.94
2950	-0.69	37.37	0.38	1.77	1.71	0.63	35.31	13.22	5.08
3000	-1.00	37.60	0.38	1.74	1.75	0.62	35.53	13.42	5.54
3050	-1.29	37.57	0.38	1.71	1.75	0.61	34.16	13.27	5.11
3100	-1.55	37.59	0.36	1.69	1.76	0.61	36.54	12.99	5.44
3150	-1.81	37.94	0.37	1.69	1.83	0.61	35.26	11.91	5.24
3200	-2.03	37.66	0.38	1.67	1.84	0.60	32.58	10.95	5.15
3250	-2.24	37.80	0.37	1.66	1.86	0.60	35.11	17.75	5.74
3300	-2.44	37.56	0.37	1.64	1.86	0.59	33.84	17.60	5.53
3350	-2.61	37.77	0.38	1.64	1.91	0.59	36.66	17.07	6.27
3400	-2.78	37.53	0.38	1.64	1.93	0.59	33.59	16.90	6.41
3450	-2.93	37.65	0.40	1.63	1.98	0.59	33.08	15.62	6.39
3500	-3.07	37.27	0.39	1.63	1.96	0.59	35.25	16.04	5.77
3550	-3.19	37.60	0.40	1.65	2.04	0.59	33.92	16.21	6.09
3600	-3.30	37.40	0.40	1.66	2.05	0.60	34.70	15.65	6.11
3650	-3.42	37.25	0.42	1.66	2.07	0.60	33.70	15.93	6.76
3700	-3.49	37.02	0.42	1.66	2.08	0.59	35.55	15.86	6.40
3750	-3.58	36.58	0.44	1.68	2.08	0.60	32.27	15.61	6.61
3800	-3.64	36.87	0.43	1.68	2.11	0.60	35.39	15.28	7.31
3850	-3.69	36.65	0.45	1.69	2.13	0.60	33.86	15.17	7.18
3900	-3.74	36.45	0.45	1.70	2.13	0.61	32.55	15.77	6.63
3950	-3.78	36.54	0.46	1.72	2.19	0.61	36.71	16.14	7.31
4000	-3.83	36.09	0.48	1.75	2.21	0.62	33.61	15.66	6.75