

## 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 = 11V, Id = 348.23 mA @ Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
30	18.34	23.27	21.98	15.44	1.12	0.67	51.27	28.39	3.07
50	18.26	23.16	22.96	15.54	1.12	0.67	51.70	30.30	2.94
100	18.24	23.10	23.04	15.66	1.12	0.66	51.48	29.68	3.04
150	18.22	23.10	23.17	15.74	1.12	0.67	50.11	29.77	3.09
200	18.18	23.09	22.87	15.84	1.13	0.67	50.24	29.97	3.06
250	18.14	23.11	22.85	15.94	1.13	0.67	50.33	30.23	3.07
300	18.10	23.09	22.53	16.08	1.13	0.68	49.61	30.37	3.12
350	18.05	23.06	22.34	16.25	1.13	0.68	48.97	30.31	3.11
400	17.99	23.04	22.14	16.39	1.14	0.68	48.79	30.20	3.11
450	17.93	23.05	21.87	16.64	1.14	0.69	48.56	30.19	3.14
500	17.87	23.01	21.63	16.83	1.15	0.69	48.45	30.15	3.17
550	17.80	23.02	21.33	17.09	1.15	0.70	47.81	30.41	3.21
600	17.73	23.03	21.12	17.35	1.16	0.71	47.55	30.39	3.24
650	17.65	23.02	20.80	17.68	1.16	0.71	47.18	30.38	3.25
700	17.56	23.01	20.57	18.00	1.17	0.72	46.90	30.34	3.28
750	17.48	23.00	20.33	18.34	1.18	0.72	46.61	30.27	3.31
800	17.39	22.98	20.12	18.71	1.18	0.73	46.35	30.15	3.33
850	17.29	22.99	19.99	19.07	1.19	0.74	46.08	30.40	3.35
900	17.19	22.96	19.72	19.52	1.20	0.74	46.19	30.32	3.39
950	17.09	22.95	19.63	19.96	1.21	0.75	45.71	30.00	3.41
1000	16.99	22.95	19.46	20.52	1.22	0.76	45.95	30.38	3.43
1050	16.89	22.94	19.35	20.97	1.23	0.76	45.35	30.12	3.48
1100	16.78	22.95	19.30	21.55	1.24	0.77	45.45	30.10	3.52
1150	16.67	22.92	19.26	22.15	1.25	0.78	45.12	29.91	3.57
1200	16.56	22.92	19.22	22.79	1.26	0.78	45.24	30.19	3.62
1250	16.45	22.90	19.23	23.54	1.27	0.79	44.97	29.58	3.66
1300	16.33	22.90	19.27	24.29	1.28	0.79	45.07	29.93	3.71
1350	16.22	22.91	19.31	25.22	1.29	0.80	44.98	29.41	3.76
1400	16.11	22.89	19.34	26.20	1.30	0.80	44.65	29.60	3.80
1450	15.99	22.88	19.44	27.15	1.31	0.81	44.93	29.83	3.84
1500	15.87	22.86	19.58	28.23	1.32	0.81	44.59	29.54	3.88
1550	15.76	22.90	19.69	29.41	1.34	0.82	44.61	29.50	3.94
1600	15.64	22.88	19.84	30.36	1.35	0.82	44.25	29.12	3.98
1650	15.52	22.87	20.02	30.97	1.36	0.83	43.97	28.74	4.03
1700	15.41	22.85	20.15	30.86	1.38	0.83	43.44	28.38	4.07
1750	15.29	22.87	20.41	30.07	1.39	0.84	43.67	28.64	4.22
1800	15.17	22.90	20.63	28.83	1.41	0.84	43.48	28.52	4.13
1850	15.06	22.93	20.76	27.45	1.42	0.85	43.85	29.08	4.21
1900	14.94	22.92	20.87	25.87	1.44	0.85	43.23	28.41	4.21
1950	14.82	22.92	21.03	24.46	1.45	0.85	42.96	28.10	4.26
2000	14.70	22.95	21.13	22.86	1.47	0.86	42.96	28.06	4.31
2100	14.45	22.97	21.01	20.49	1.49	0.86	42.71	27.66	4.38
2200	14.20	23.07	20.67	18.42	1.53	0.87	41.85	27.26	4.48
2300	13.95	23.10	20.00	16.53	1.55	0.87	40.95	26.63	4.59
2400	13.69	23.26	19.19	14.83	1.59	0.88	40.49	26.47	4.71
2500	13.41	23.38	18.23	13.30	1.62	0.88	39.26	25.63	4.85
2600	13.11	23.50	17.18	11.86	1.65	0.88	38.72	25.24	5.00
2700	12.78	23.73	16.05	10.53	1.68	0.87	38.98	25.75	5.18

## 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 = 10.5V, Id = 322.53 mA @ Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
30	18.32	23.24	21.77	15.52	1.12	0.66	51.15	28.02	3.02
50	18.25	23.12	22.82	15.62	1.12	0.66	51.93	29.82	2.89
100	18.24	23.10	22.85	15.72	1.12	0.66	49.91	29.28	2.99
150	18.21	23.08	22.96	15.80	1.12	0.67	50.26	29.39	3.03
200	18.18	23.06	22.68	15.91	1.12	0.67	50.05	29.51	3.01
250	18.13	23.06	22.65	16.00	1.13	0.67	49.87	29.77	3.01
300	18.09	23.07	22.37	16.15	1.13	0.68	48.57	29.91	3.07
350	18.04	23.06	22.17	16.31	1.13	0.68	48.82	29.85	3.07
400	17.98	23.04	21.98	16.48	1.14	0.68	47.94	29.74	3.07
450	17.92	23.02	21.71	16.68	1.14	0.69	47.63	29.74	3.10
500	17.86	23.02	21.48	16.92	1.15	0.69	47.20	29.75	3.13
550	17.78	23.03	21.21	17.15	1.15	0.70	47.00	30.00	3.15
600	17.72	23.03	20.93	17.46	1.16	0.71	46.64	29.92	3.17
650	17.63	23.00	20.63	17.75	1.16	0.71	46.32	29.92	3.19
700	17.55	23.01	20.48	18.07	1.17	0.72	46.08	29.87	3.23
750	17.46	22.97	20.21	18.44	1.18	0.72	45.57	29.81	3.22
800	17.37	22.99	20.01	18.79	1.19	0.73	45.31	29.77	3.28
850	17.27	22.96	19.87	19.16	1.19	0.74	45.27	29.94	3.29
900	17.17	22.95	19.64	19.62	1.20	0.74	45.09	29.94	3.35
950	17.07	22.95	19.54	20.09	1.21	0.75	44.52	29.55	3.37
1000	16.97	22.94	19.36	20.63	1.22	0.76	44.93	29.90	3.40
1050	16.86	22.92	19.30	21.13	1.23	0.76	44.33	29.73	3.43
1100	16.75	22.94	19.18	21.69	1.24	0.77	44.40	29.64	3.47
1150	16.64	22.92	19.21	22.24	1.25	0.78	44.00	29.45	3.50
1200	16.53	22.91	19.14	22.94	1.26	0.78	44.15	29.73	3.55
1250	16.42	22.92	19.17	23.68	1.27	0.79	43.65	29.22	3.61
1300	16.30	22.88	19.21	24.39	1.28	0.79	43.81	29.55	3.64
1350	16.18	22.93	19.24	25.23	1.30	0.80	43.58	29.05	3.68
1400	16.08	22.89	19.27	26.19	1.30	0.81	43.36	29.22	3.74
1450	15.95	22.87	19.37	27.09	1.31	0.81	43.75	29.43	3.78
1500	15.83	22.84	19.53	27.93	1.32	0.81	43.26	29.14	3.83
1550	15.72	22.87	19.61	28.90	1.34	0.82	43.24	29.10	3.87
1600	15.59	22.88	19.81	29.38	1.36	0.83	42.82	28.74	3.93
1650	15.47	22.92	19.98	29.59	1.37	0.83	42.44	28.37	3.94
1700	15.36	22.88	20.12	29.29	1.38	0.83	41.96	28.02	3.99
1750	15.24	22.90	20.36	28.51	1.40	0.84	42.21	28.27	4.05
1800	15.12	22.89	20.57	27.39	1.41	0.84	41.99	28.15	4.08
1850	15.00	22.91	20.70	26.20	1.43	0.85	42.52	28.68	4.14
1900	14.88	22.90	20.82	24.88	1.44	0.85	41.79	28.03	4.14
1950	14.76	22.91	20.99	23.65	1.45	0.85	41.47	27.73	4.17
2000	14.62	22.94	21.07	21.98	1.47	0.86	41.58	27.68	4.22
2100	14.37	22.96	20.91	19.82	1.50	0.86	41.03	27.28	4.30
2200	14.12	23.05	20.59	17.93	1.53	0.87	40.46	26.97	4.41
2300	13.87	23.13	19.93	16.14	1.56	0.87	39.45	26.25	4.51
2400	13.60	23.21	19.11	14.55	1.59	0.88	39.12	26.08	4.61
2500	13.31	23.34	18.16	13.06	1.62	0.88	37.64	25.34	4.77
2600	13.01	23.51	17.14	11.70	1.66	0.88	37.04	24.86	4.92
2700	12.68	23.73	16.03	10.41	1.69	0.87	37.95	25.36	5.10

## 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 = 11.5V, Id = 371.94 mA @ Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
30	18.36	23.27	22.03	15.31	1.12	0.67	50.91	28.70	3.12
50	18.27	23.20	23.17	15.36	1.12	0.67	51.62	30.67	3.00
100	18.26	23.13	23.22	15.61	1.12	0.66	50.36	30.07	3.08
150	18.23	23.10	23.43	15.65	1.12	0.66	51.67	30.09	3.12
200	18.19	23.08	23.09	15.76	1.12	0.67	50.33	30.31	3.10
250	18.15	23.10	23.07	15.86	1.13	0.67	50.51	30.58	3.11
300	18.12	23.09	22.75	16.01	1.13	0.67	49.24	30.72	3.16
350	18.06	23.09	22.49	16.18	1.14	0.68	49.55	30.65	3.16
400	18.01	23.08	22.34	16.34	1.14	0.68	49.10	30.58	3.18
450	17.95	23.06	22.04	16.56	1.14	0.69	48.82	30.52	3.19
500	17.89	23.04	21.83	16.73	1.15	0.69	48.59	30.54	3.22
550	17.82	23.04	21.47	16.99	1.15	0.70	48.10	30.80	3.24
600	17.75	23.06	21.27	17.25	1.16	0.70	48.18	30.72	3.28
650	17.67	23.04	20.92	17.57	1.16	0.71	47.62	30.72	3.30
700	17.59	23.01	20.70	17.89	1.17	0.72	47.30	30.67	3.33
750	17.51	23.02	20.48	18.22	1.18	0.72	47.09	30.60	3.36
800	17.42	22.99	20.22	18.60	1.18	0.73	46.88	30.55	3.37
850	17.32	23.01	20.10	18.92	1.19	0.74	46.80	30.73	3.39
900	17.23	22.97	19.83	19.38	1.20	0.74	46.69	30.73	3.45
950	17.13	22.98	19.73	19.81	1.21	0.75	46.28	30.32	3.47
1000	17.03	22.95	19.58	20.34	1.21	0.75	46.50	30.71	3.52
1050	16.93	22.94	19.44	20.81	1.22	0.76	46.26	30.44	3.54
1100	16.82	22.94	19.40	21.33	1.23	0.77	46.05	30.42	3.57
1150	16.71	22.93	19.36	21.94	1.24	0.77	45.90	30.23	3.62
1200	16.60	22.94	19.35	22.53	1.25	0.78	45.81	30.52	3.68
1250	16.49	22.92	19.32	23.30	1.26	0.78	45.89	29.89	3.72
1300	16.38	22.92	19.36	24.04	1.28	0.79	45.99	30.24	3.76
1350	16.27	22.92	19.39	25.03	1.29	0.80	45.39	29.72	3.81
1400	16.16	22.90	19.45	25.94	1.30	0.80	45.99	29.92	3.87
1450	16.05	22.90	19.53	26.98	1.31	0.81	45.77	30.15	3.91
1500	15.93	22.89	19.63	28.22	1.32	0.81	45.55	29.86	3.95
1550	15.82	22.89	19.80	29.57	1.33	0.82	45.67	29.83	3.99
1600	15.70	22.87	19.94	30.99	1.35	0.82	45.15	29.43	4.08
1650	15.58	22.89	20.12	32.25	1.36	0.83	44.99	29.04	4.10
1700	15.47	22.86	20.28	32.95	1.37	0.83	44.55	28.59	4.12
1750	15.36	22.92	20.52	32.29	1.39	0.83	44.69	28.95	4.16
1800	15.24	22.92	20.72	30.78	1.40	0.84	44.53	28.74	4.22
1850	15.13	22.91	20.90	29.08	1.42	0.84	44.83	29.41	4.29
1900	15.01	22.87	20.94	27.31	1.42	0.84	44.28	28.71	4.29
1950	14.90	22.92	21.10	25.59	1.44	0.85	43.96	28.41	4.33
2000	14.74	23.00	21.15	23.62	1.47	0.86	44.12	28.37	4.36
2100	14.51	22.98	21.04	21.01	1.49	0.86	43.40	27.97	4.45
2200	14.26	23.06	20.67	18.76	1.52	0.87	43.26	27.57	4.55
2300	14.01	23.14	20.01	16.79	1.55	0.87	41.99	26.86	4.67
2400	13.75	23.22	19.20	15.02	1.58	0.88	41.79	26.69	4.77
2500	13.47	23.37	18.24	13.43	1.61	0.88	40.36	25.94	4.93
2600	13.17	23.52	17.19	11.96	1.64	0.87	39.75	25.46	5.10
2700	12.85	23.75	16.07	10.60	1.68	0.87	40.85	25.99	5.27

## 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 = 11V, Id = 332.89 mA @ Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
30	18.19	23.19	22.27	15.42	1.12	0.67	51.72	28.40	2.59
50	18.30	23.11	22.50	15.79	1.12	0.66	53.25	30.37	2.43
100	18.29	23.14	22.30	15.99	1.12	0.67	51.91	29.80	2.51
150	18.26	23.09	22.30	16.12	1.12	0.67	51.39	29.85	2.56
200	18.23	23.09	22.04	16.22	1.12	0.67	51.59	30.05	2.53
250	18.19	23.09	22.20	16.25	1.13	0.67	50.90	30.34	2.54
300	18.15	23.05	22.15	16.27	1.13	0.67	50.61	30.48	2.58
350	18.10	23.06	22.09	16.37	1.13	0.68	50.45	30.42	2.57
400	18.04	23.08	21.97	16.48	1.14	0.68	49.97	30.35	2.57
450	17.99	23.07	21.69	16.70	1.14	0.69	49.26	30.35	2.59
500	17.92	23.04	21.44	16.91	1.14	0.69	49.25	30.22	2.61
550	17.85	23.01	21.16	17.17	1.15	0.70	48.70	30.58	2.66
600	17.78	23.03	20.97	17.41	1.15	0.70	48.61	30.48	2.65
650	17.71	22.99	20.77	17.62	1.16	0.71	48.02	30.47	2.68
700	17.62	23.02	20.67	17.87	1.17	0.72	47.98	30.41	2.69
750	17.54	23.00	20.49	18.13	1.17	0.72	47.50	30.26	2.73
800	17.45	22.97	20.26	18.48	1.18	0.72	47.44	30.21	2.74
850	17.36	22.94	20.18	18.77	1.18	0.73	47.37	30.49	2.78
900	17.27	22.95	19.96	19.17	1.19	0.74	47.06	30.39	2.79
950	17.17	22.94	19.91	19.53	1.20	0.74	46.65	29.98	2.81
1000	17.07	22.92	19.81	19.94	1.21	0.75	46.97	30.37	2.84
1050	16.97	22.91	19.73	20.34	1.21	0.76	46.58	30.20	2.86
1100	16.86	22.94	19.69	20.78	1.23	0.76	46.65	30.11	2.89
1150	16.75	22.92	19.65	21.24	1.24	0.77	46.39	30.01	2.93
1200	16.65	22.90	19.63	21.78	1.25	0.77	46.56	30.31	2.95
1250	16.54	22.89	19.64	22.38	1.25	0.78	46.17	29.68	3.01
1300	16.43	22.89	19.68	22.88	1.27	0.79	46.19	30.04	3.05
1350	16.32	22.88	19.75	23.49	1.28	0.79	46.11	29.52	3.09
1400	16.22	22.89	19.80	24.12	1.29	0.80	45.86	29.72	3.12
1450	16.10	22.85	19.92	24.70	1.30	0.80	46.35	29.97	3.17
1500	15.99	22.84	20.04	25.29	1.31	0.81	45.94	29.70	3.21
1550	15.88	22.84	20.19	25.88	1.32	0.81	46.04	29.65	3.25
1600	15.76	22.85	20.35	26.26	1.33	0.82	45.41	29.37	3.29
1650	15.64	22.84	20.60	26.54	1.35	0.82	45.08	28.90	3.34
1700	15.54	22.84	20.79	26.58	1.36	0.82	44.50	28.54	3.36
1750	15.42	22.85	21.08	26.41	1.37	0.83	44.72	28.91	3.41
1800	15.31	22.83	21.36	25.89	1.38	0.83	44.59	28.70	3.42
1850	15.20	22.84	21.58	25.27	1.40	0.83	45.06	29.38	3.48
1900	15.09	22.84	21.73	24.56	1.41	0.84	44.38	28.69	3.48
1950	14.97	22.83	22.01	23.62	1.42	0.84	43.94	28.39	3.51
2000	14.86	22.86	22.33	22.27	1.43	0.84	44.03	28.35	3.54
2100	14.63	22.92	22.47	20.47	1.47	0.85	43.32	27.98	3.60
2200	14.40	22.89	22.31	18.74	1.48	0.86	43.09	27.60	3.71
2300	14.17	22.96	21.86	17.12	1.51	0.86	41.84	26.90	3.78
2400	13.93	23.03	21.11	15.56	1.54	0.86	41.66	26.76	3.87
2500	13.68	23.13	20.09	14.10	1.56	0.87	39.97	25.93	4.02
2600	13.42	23.28	19.03	12.71	1.60	0.87	39.28	25.44	4.15
2700	13.13	23.45	17.81	11.40	1.62	0.86	40.59	25.97	4.30

## 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 = 10.5V, Id = 305.28 mA @ Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)			(dBm)	(dBm)	(dB)
30	18.19	23.11	22.08	15.43	1.12	0.67	52.07	28.02	2.53
50	18.29	23.18	22.25	15.76	1.12	0.67	52.69	29.94	2.39
100	18.28	23.10	22.13	16.07	1.12	0.67	50.95	29.37	2.49
150	18.25	23.06	22.10	16.23	1.12	0.67	53.63	29.48	2.51
200	18.21	23.06	21.85	16.33	1.12	0.67	50.89	29.62	2.49
250	18.17	23.07	21.96	16.35	1.13	0.67	51.58	29.90	2.50
300	18.13	23.08	21.89	16.41	1.13	0.68	50.16	30.04	2.54
350	18.08	23.06	21.89	16.48	1.13	0.68	50.31	30.02	2.53
400	18.02	23.05	21.76	16.59	1.14	0.68	49.51	29.91	2.53
450	17.97	23.02	21.53	16.80	1.14	0.69	48.58	29.91	2.55
500	17.90	23.02	21.31	17.01	1.14	0.69	48.84	29.85	2.57
550	17.83	23.04	21.04	17.23	1.15	0.70	48.19	30.13	2.61
600	17.77	23.04	20.87	17.48	1.16	0.71	48.12	30.02	2.63
650	17.69	22.97	20.65	17.72	1.16	0.71	47.42	30.02	2.63
700	17.60	22.98	20.57	17.95	1.16	0.71	47.25	29.95	2.65
750	17.52	22.96	20.36	18.23	1.17	0.72	46.87	29.82	2.70
800	17.43	22.98	20.18	18.56	1.18	0.73	46.71	29.85	2.70
850	17.34	23.00	20.07	18.87	1.19	0.74	46.56	30.04	2.72
900	17.24	22.94	19.87	19.26	1.19	0.74	46.46	30.04	2.75
950	17.14	22.96	19.84	19.65	1.20	0.75	45.90	29.64	2.77
1000	17.05	22.91	19.72	20.08	1.21	0.75	46.24	30.01	2.79
1050	16.94	22.91	19.65	20.45	1.22	0.76	45.87	29.76	2.81
1100	16.84	22.92	19.59	20.89	1.23	0.76	45.82	29.76	2.84
1150	16.73	22.90	19.60	21.37	1.24	0.77	45.46	29.66	2.90
1200	16.62	22.90	19.54	21.90	1.25	0.78	45.61	29.87	2.90
1250	16.51	22.88	19.53	22.48	1.26	0.78	45.16	29.35	2.97
1300	16.40	22.88	19.58	23.02	1.27	0.79	45.30	29.70	3.00
1350	16.29	22.88	19.65	23.62	1.28	0.79	44.95	29.20	3.04
1400	16.18	22.85	19.73	24.22	1.29	0.80	44.92	29.39	3.08
1450	16.07	22.84	19.82	24.72	1.30	0.80	45.26	29.61	3.12
1500	15.95	22.84	20.00	25.22	1.31	0.81	44.80	29.34	3.15
1550	15.84	22.81	20.08	25.80	1.32	0.81	44.88	29.30	3.20
1600	15.72	22.83	20.24	26.10	1.34	0.82	44.25	29.04	3.23
1650	15.60	22.83	20.45	26.25	1.35	0.82	43.84	28.67	3.26
1700	15.50	22.83	20.69	26.24	1.36	0.82	43.23	28.24	3.30
1750	15.38	22.83	20.95	25.93	1.37	0.83	43.54	28.60	3.35
1800	15.27	22.85	21.22	25.36	1.39	0.83	43.30	28.49	3.37
1850	15.15	22.79	21.46	24.75	1.40	0.83	43.91	29.03	3.42
1900	15.04	22.81	21.60	23.98	1.41	0.84	43.11	28.39	3.42
1950	14.92	22.81	21.86	23.13	1.42	0.84	42.72	28.10	3.43
2000	14.80	22.86	22.15	21.76	1.44	0.85	42.80	27.99	3.48
2100	14.57	22.86	22.30	20.03	1.46	0.85	42.15	27.61	3.55
2200	14.34	22.92	22.06	18.35	1.49	0.86	41.72	27.23	3.63
2300	14.10	22.97	21.69	16.78	1.52	0.86	40.47	26.54	3.72
2400	13.86	23.03	20.90	15.29	1.54	0.87	40.30	26.39	3.81
2500	13.61	23.11	19.97	13.85	1.57	0.87	38.46	25.65	3.99
2600	13.34	23.27	18.89	12.52	1.60	0.87	37.80	25.17	4.08
2700	13.05	23.41	17.71	11.24	1.62	0.86	39.19	25.68	4.22

## 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 = 11.5V, Id = 357.91 mA @ Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
30	18.18	23.10	22.38	15.41	1.12	0.67	52.20	28.73	2.64
50	18.33	23.18	22.80	15.50	1.12	0.66	53.46	30.75	2.48
100	18.32	23.14	22.52	15.87	1.12	0.66	52.47	30.15	2.55
150	18.29	23.12	22.50	15.98	1.12	0.66	52.34	30.17	2.59
200	18.25	23.10	22.22	16.11	1.12	0.67	51.72	30.41	2.56
250	18.21	23.10	22.36	16.13	1.12	0.67	51.63	30.70	2.57
300	18.18	23.08	22.32	16.17	1.13	0.67	51.36	30.88	2.61
350	18.12	23.08	22.23	16.25	1.13	0.68	50.57	30.81	2.61
400	18.07	23.05	22.18	16.34	1.13	0.68	50.37	30.70	2.60
450	18.02	23.07	21.89	16.57	1.14	0.68	49.75	30.69	2.63
500	17.95	23.06	21.69	16.74	1.14	0.69	49.34	30.63	2.65
550	17.88	23.06	21.42	16.99	1.15	0.70	48.98	30.93	2.68
600	17.82	23.04	21.23	17.20	1.15	0.70	48.99	30.81	2.70
650	17.74	23.02	21.01	17.42	1.16	0.70	48.35	30.80	2.72
700	17.66	23.02	20.88	17.67	1.16	0.71	48.20	30.73	2.74
750	17.58	23.03	20.68	17.95	1.17	0.72	47.83	30.57	2.74
800	17.49	22.98	20.49	18.25	1.17	0.72	47.59	30.52	2.77
850	17.40	22.99	20.41	18.54	1.18	0.73	47.72	30.81	2.81
900	17.31	22.98	20.15	18.93	1.19	0.74	47.42	30.71	2.83
950	17.21	22.98	20.13	19.28	1.20	0.74	47.01	30.29	2.85
1000	17.12	22.97	20.00	19.71	1.21	0.75	47.46	30.69	2.88
1050	17.01	22.96	19.90	20.07	1.21	0.75	47.12	30.51	2.89
1100	16.91	22.94	19.89	20.50	1.22	0.76	47.03	30.42	2.94
1150	16.80	22.92	19.84	21.02	1.23	0.77	46.96	30.32	2.97
1200	16.70	22.92	19.82	21.50	1.24	0.77	47.14	30.63	3.00
1250	16.59	22.89	19.80	22.12	1.25	0.78	46.80	29.89	3.06
1300	16.49	22.88	19.87	22.60	1.26	0.78	47.01	30.34	3.09
1350	16.37	22.89	19.91	23.26	1.27	0.79	46.70	29.72	3.13
1400	16.27	22.90	19.97	23.91	1.28	0.79	47.05	30.03	3.18
1450	16.16	22.87	20.06	24.52	1.29	0.80	47.17	30.29	3.21
1500	16.04	22.86	20.18	25.19	1.31	0.80	46.87	30.02	3.25
1550	15.94	22.85	20.32	25.87	1.32	0.81	47.04	29.96	3.29
1600	15.82	22.86	20.48	26.41	1.33	0.81	46.49	29.59	3.32
1650	15.71	22.84	20.72	26.79	1.34	0.82	46.09	29.19	3.38
1700	15.60	22.85	20.93	27.02	1.35	0.82	45.59	28.74	3.39
1750	15.49	22.86	21.19	26.97	1.37	0.83	45.88	29.11	3.45
1800	15.38	22.85	21.45	26.65	1.38	0.83	45.70	28.91	3.46
1850	15.27	22.82	21.73	26.02	1.39	0.83	46.12	29.70	3.53
1900	15.16	22.82	21.87	25.31	1.40	0.84	45.44	28.90	3.52
1950	15.05	22.88	22.14	24.37	1.42	0.84	45.04	28.60	3.55
2000	14.91	22.86	22.42	22.73	1.43	0.84	45.23	28.56	3.60
2100	14.68	22.86	22.61	20.91	1.45	0.85	44.35	28.19	3.67
2200	14.45	22.93	22.39	19.06	1.48	0.86	44.23	27.81	3.75
2300	14.22	22.96	21.97	17.38	1.51	0.86	42.93	27.12	3.84
2400	13.99	23.04	21.19	15.79	1.54	0.86	42.79	26.98	3.93
2500	13.74	23.14	20.20	14.27	1.56	0.87	41.19	26.14	4.09
2600	13.47	23.28	19.10	12.86	1.59	0.87	40.56	25.66	4.20
2700	13.20	23.43	17.92	11.52	1.62	0.86	41.68	26.28	4.36

## 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 = 11V, Id = 350.92mA @ 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)
30	18.30	23.23	22.25	15.26	1.13	0.67	48.57	28.35	3.50
50	18.15	23.03	22.97	15.59	1.12	0.67	48.67	30.10	3.37
100	18.13	23.06	23.07	15.85	1.13	0.67	48.04	29.54	3.47
150	18.10	23.04	23.27	15.89	1.13	0.67	47.71	29.64	3.50
200	18.07	23.05	22.93	16.02	1.13	0.67	47.64	29.81	3.49
250	18.03	23.04	22.89	16.14	1.13	0.68	47.70	30.02	3.53
300	17.99	23.02	22.53	16.30	1.14	0.68	47.24	30.15	3.56
350	17.93	23.03	22.27	16.53	1.14	0.69	46.87	30.08	3.58
400	17.88	23.03	22.02	16.70	1.15	0.69	46.67	30.01	3.55
450	17.82	22.98	21.67	16.98	1.15	0.69	46.29	30.01	3.60
500	17.75	23.01	21.44	17.18	1.16	0.70	46.08	29.99	3.62
550	17.68	22.98	21.08	17.48	1.16	0.71	45.89	30.21	3.63
600	17.61	22.97	20.82	17.78	1.16	0.71	45.73	30.14	3.68
650	17.52	22.96	20.49	18.14	1.17	0.72	45.32	30.13	3.73
700	17.44	22.98	20.24	18.50	1.18	0.73	45.08	30.16	3.73
750	17.35	22.95	20.02	18.89	1.18	0.73	44.82	30.04	3.74
800	17.26	22.93	19.74	19.33	1.19	0.74	44.63	30.00	3.76
850	17.16	22.96	19.61	19.73	1.20	0.74	44.62	30.20	3.86
900	17.07	22.93	19.31	20.25	1.21	0.75	44.57	30.15	3.88
950	16.96	22.94	19.21	20.76	1.22	0.76	44.08	29.96	3.90
1000	16.86	22.90	19.03	21.38	1.23	0.76	44.48	30.11	3.94
1050	16.75	22.91	18.88	22.00	1.24	0.77	43.95	29.94	3.98
1100	16.64	22.91	18.82	22.63	1.25	0.78	43.98	29.84	4.01
1150	16.53	22.90	18.81	23.36	1.26	0.78	43.66	29.72	4.08
1200	16.42	22.88	18.76	24.14	1.27	0.79	43.79	29.87	4.12
1250	16.30	22.91	18.74	25.14	1.28	0.80	43.38	29.40	4.13
1300	16.19	22.91	18.78	26.07	1.29	0.80	43.53	29.70	4.22
1350	16.07	22.91	18.78	27.41	1.31	0.81	43.23	29.22	4.26
1400	15.96	22.91	18.81	28.85	1.32	0.81	43.30	29.36	4.36
1450	15.84	22.88	18.91	30.76	1.33	0.82	43.52	29.48	4.39
1500	15.72	22.91	18.98	33.18	1.35	0.82	43.20	29.17	4.41
1550	15.60	22.92	19.12	36.50	1.36	0.83	43.14	29.24	4.50
1600	15.47	22.92	19.22	41.72	1.38	0.83	42.69	28.75	4.50
1650	15.35	22.95	19.36	44.32	1.39	0.84	42.32	28.49	4.58
1700	15.24	22.93	19.48	38.08	1.40	0.84	41.80	28.03	4.61
1750	15.12	22.95	19.63	33.49	1.42	0.85	42.07	28.27	4.67
1800	14.99	22.95	19.77	30.42	1.43	0.85	41.85	28.15	4.70
1850	14.87	22.98	19.88	27.94	1.45	0.85	42.48	28.64	4.77
1900	14.75	22.99	19.87	25.91	1.47	0.86	41.68	28.00	4.78
1950	14.62	23.01	19.96	24.17	1.48	0.86	41.39	27.69	4.84
2000	14.48	23.03	19.98	22.48	1.50	0.87	41.44	27.65	4.91
2100	14.22	23.14	19.79	19.84	1.54	0.88	40.99	27.25	4.97
2200	13.95	23.18	19.33	17.64	1.57	0.88	40.43	26.91	5.11
2300	13.68	23.29	18.67	15.73	1.61	0.88	39.45	26.27	5.19
2400	13.39	23.42	17.83	14.01	1.64	0.89	39.13	26.08	5.33
2500	13.07	23.57	16.89	12.45	1.68	0.88	37.85	25.32	5.50
2600	12.75	23.78	15.89	11.03	1.72	0.88	37.38	24.84	5.65
2700	12.38	24.00	14.83	9.73	1.75	0.87	37.93	25.33	5.85

## Typical Performance Data

### Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 10.5V, Id = 327.21 mA @ Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
30	18.28	23.13	22.07	15.29	1.12	0.67	48.76	27.94	3.40
50	18.14	23.13	22.94	15.64	1.13	0.67	48.87	29.63	3.29
100	18.13	23.03	22.91	15.89	1.13	0.67	48.29	29.17	3.40
150	18.10	23.03	23.09	15.93	1.13	0.67	47.85	29.26	3.44
200	18.06	23.03	22.78	16.05	1.13	0.67	47.67	29.36	3.42
250	18.02	23.05	22.70	16.17	1.14	0.68	47.76	29.57	3.44
300	17.98	23.03	22.34	16.34	1.14	0.68	47.07	29.69	3.48
350	17.92	23.00	22.04	16.56	1.14	0.69	46.95	29.63	3.47
400	17.87	23.01	21.86	16.74	1.14	0.69	46.38	29.57	3.46
450	17.81	22.97	21.52	17.02	1.15	0.69	46.20	29.57	3.50
500	17.74	22.99	21.27	17.23	1.15	0.70	45.81	29.54	3.54
550	17.67	22.97	20.96	17.52	1.16	0.71	45.85	29.76	3.59
600	17.59	22.97	20.69	17.84	1.17	0.71	45.41	29.69	3.59
650	17.51	22.96	20.36	18.22	1.17	0.72	45.21	29.74	3.62
700	17.42	22.97	20.13	18.58	1.18	0.73	44.84	29.71	3.64
750	17.34	22.96	19.89	18.98	1.19	0.73	44.55	29.65	3.71
800	17.24	22.96	19.61	19.44	1.19	0.74	44.29	29.62	3.71
850	17.14	22.94	19.50	19.82	1.20	0.75	44.24	29.75	3.73
900	17.04	22.91	19.22	20.38	1.21	0.75	44.12	29.69	3.79
950	16.94	22.90	19.09	20.92	1.22	0.76	43.58	29.50	3.81
1000	16.83	22.90	18.93	21.55	1.23	0.76	44.04	29.72	3.84
1050	16.72	22.91	18.81	22.13	1.24	0.77	43.45	29.56	3.88
1100	16.61	22.90	18.75	22.81	1.25	0.78	43.52	29.46	3.92
1150	16.50	22.86	18.71	23.61	1.26	0.78	43.09	29.27	3.98
1200	16.39	22.89	18.70	24.38	1.27	0.79	43.34	29.42	4.02
1250	16.27	22.90	18.64	25.42	1.28	0.80	42.78	29.03	4.08
1300	16.15	22.89	18.70	26.38	1.30	0.80	42.92	29.25	4.12
1350	16.03	22.88	18.74	27.76	1.31	0.81	42.71	28.85	4.17
1400	15.92	22.90	18.75	29.29	1.32	0.81	42.57	28.91	4.22
1450	15.80	22.91	18.84	31.14	1.34	0.82	42.93	29.10	4.26
1500	15.67	22.89	18.94	33.41	1.35	0.82	42.53	28.72	4.30
1550	15.55	22.90	19.05	36.18	1.36	0.83	42.40	28.78	4.36
1600	15.43	22.92	19.15	38.72	1.38	0.84	41.97	28.38	4.43
1650	15.31	22.92	19.32	38.19	1.39	0.84	41.53	28.04	4.45
1700	15.19	22.93	19.44	34.90	1.41	0.84	40.96	27.68	4.50
1750	15.06	22.93	19.59	31.72	1.42	0.85	41.30	27.91	4.54
1800	14.94	22.91	19.70	29.25	1.44	0.85	41.03	27.78	4.60
1850	14.82	22.95	19.85	27.07	1.45	0.86	41.73	28.19	4.65
1900	14.69	22.98	19.84	25.20	1.47	0.86	40.84	27.64	4.68
1950	14.57	22.94	19.92	23.64	1.48	0.86	40.55	27.33	4.71
2000	14.41	22.99	19.96	21.87	1.50	0.87	40.66	27.28	4.75
2100	14.15	23.10	19.77	19.46	1.54	0.88	40.00	26.87	4.86
2200	13.88	23.13	19.27	17.36	1.57	0.88	39.57	26.53	4.96
2300	13.60	23.26	18.63	15.54	1.61	0.88	38.49	25.89	5.09
2400	13.31	23.39	17.80	13.88	1.65	0.89	38.30	25.69	5.19
2500	12.99	23.52	16.87	12.36	1.68	0.89	36.81	24.94	5.33
2600	12.66	23.73	15.87	10.98	1.72	0.88	36.26	24.46	5.53
2700	12.30	23.99	14.81	9.70	1.76	0.87	37.29	24.94	5.70



## Typical Performance Data

### Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 11.5V, Id = 371.66 mA @ Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
30	18.30	23.20	22.39	15.21	1.12	0.67	48.11	28.66	3.61
50	18.14	23.04	23.14	15.72	1.12	0.67	47.81	30.46	3.49
100	18.13	23.05	23.22	15.87	1.13	0.67	47.30	29.92	3.59
150	18.10	23.03	23.41	15.91	1.13	0.67	47.41	29.95	3.62
200	18.07	23.03	23.10	16.03	1.13	0.67	47.04	30.14	3.60
250	18.03	23.04	23.04	16.15	1.14	0.68	47.17	30.39	3.62
300	17.99	23.06	22.67	16.32	1.14	0.68	46.57	30.51	3.67
350	17.93	23.03	22.36	16.53	1.14	0.69	46.71	30.44	3.68
400	17.88	23.00	22.15	16.69	1.14	0.69	46.30	30.34	3.68
450	17.82	22.99	21.77	16.98	1.15	0.69	45.97	30.34	3.71
500	17.76	22.98	21.55	17.17	1.15	0.70	45.89	30.31	3.74
550	17.68	23.00	21.19	17.46	1.16	0.71	45.79	30.54	3.79
600	17.62	22.99	20.92	17.76	1.17	0.71	45.54	30.47	3.81
650	17.53	22.96	20.59	18.12	1.17	0.72	45.39	30.52	3.82
700	17.45	22.98	20.33	18.44	1.18	0.72	45.13	30.48	3.85
750	17.37	22.93	20.09	18.85	1.18	0.73	44.73	30.43	3.85
800	17.27	22.93	19.84	19.27	1.19	0.74	44.66	30.39	3.92
850	17.18	22.98	19.66	19.66	1.20	0.74	44.49	30.53	3.93
900	17.08	22.96	19.39	20.22	1.21	0.75	44.51	30.47	3.99
950	16.98	22.94	19.26	20.71	1.22	0.76	44.05	30.28	4.01
1000	16.88	22.94	19.05	21.31	1.23	0.76	44.51	30.50	4.06
1050	16.78	22.96	18.93	21.88	1.24	0.77	44.00	30.26	4.10
1100	16.67	22.95	18.88	22.51	1.25	0.78	44.10	30.15	4.13
1150	16.55	22.92	18.81	23.25	1.26	0.78	43.73	30.03	4.20
1200	16.45	22.90	18.80	23.95	1.27	0.79	43.88	30.18	4.23
1250	16.33	22.94	18.75	24.92	1.28	0.79	43.58	29.70	4.30
1300	16.22	22.90	18.79	25.83	1.29	0.80	43.66	30.01	4.34
1350	16.10	22.91	18.80	27.11	1.30	0.80	43.55	29.52	4.40
1400	16.00	22.92	18.83	28.55	1.32	0.81	43.36	29.67	4.46
1450	15.87	22.93	18.89	30.26	1.33	0.82	43.76	29.79	4.49
1500	15.75	22.94	18.99	32.66	1.35	0.82	43.40	29.40	4.54
1550	15.64	22.91	19.10	35.63	1.36	0.82	43.31	29.48	4.60
1600	15.51	22.93	19.21	41.76	1.37	0.83	42.96	29.04	4.63
1650	15.39	22.92	19.36	56.57	1.39	0.83	42.60	28.71	4.71
1700	15.28	22.94	19.47	40.90	1.40	0.84	42.14	28.33	4.74
1750	15.16	22.95	19.62	34.99	1.42	0.84	42.40	28.57	4.83
1800	15.04	22.98	19.75	31.46	1.43	0.85	42.23	28.37	4.82
1850	14.92	22.98	19.84	28.56	1.45	0.85	42.79	28.87	4.89
1900	14.80	23.00	19.86	26.35	1.46	0.86	42.08	28.30	4.93
1950	14.68	23.07	19.95	24.59	1.49	0.86	41.79	27.91	4.97
2000	14.52	23.04	20.00	22.83	1.50	0.87	41.95	27.95	5.01
2100	14.26	23.14	19.81	20.07	1.54	0.87	41.46	27.55	5.12
2200	14.00	23.20	19.32	17.83	1.57	0.88	40.82	27.13	5.22
2300	13.73	23.32	18.64	15.83	1.61	0.88	39.95	26.49	5.37
2400	13.44	23.42	17.81	14.07	1.64	0.88	39.57	26.31	5.48
2500	13.13	23.58	16.87	12.48	1.67	0.88	38.47	25.55	5.65
2600	12.80	23.80	15.85	11.05	1.71	0.88	38.01	25.07	5.81
2700	12.44	24.04	14.80	9.73	1.74	0.87	38.30	25.57	6.01