

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 = 5.00V, Id = 146.84mA @ Temperature = +25°C

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)
4000	8.47	46.26	6.04	3.09	15.13	0.63	19.94	12.32	15.72
4200	10.18	46.24	6.57	4.01	15.18	0.73	22.46	14.36	13.17
4400	11.25	45.32	7.36	5.08	14.43	0.81	25.86	15.69	11.19
4600	12.14	44.16	8.42	6.27	13.22	0.87	27.37	16.48	9.61
4800	12.85	42.92	9.72	7.55	11.87	0.90	31.28	17.22	8.33
5000	13.41	42.06	11.19	8.85	10.99	0.93	31.79	17.35	7.40
5200	13.83	41.15	12.86	10.14	10.04	0.94	41.38	17.98	6.78
5400	14.14	40.36	14.44	11.14	9.18	0.95	38.21	17.84	6.12
5600	14.36	39.78	16.02	11.93	8.58	0.95	36.96	17.92	5.73
5800	14.51	39.38	17.53	12.38	8.17	0.95	37.05	18.14	5.31
6000	14.65	38.85	18.98	12.75	7.64	0.95	34.76	18.42	5.04
6500	14.80	38.09	21.58	12.96	6.93	0.95	33.31	18.48	4.58
7000	14.90	37.57	25.18	13.32	6.50	0.95	32.29	18.52	4.36
7500	14.94	37.52	33.42	14.05	6.50	0.96	30.81	18.86	4.09
8000	14.90	37.16	32.09	14.72	6.31	0.96	31.23	18.11	4.01
8500	14.79	36.99	23.24	15.49	6.27	0.97	30.34	18.18	4.02
9000	14.65	37.25	19.12	16.24	6.55	0.98	30.02	18.04	4.17
9500	14.48	37.24	16.70	16.48	6.62	0.99	29.48	18.39	4.23
10000	14.25	36.99	15.31	16.58	6.56	1.00	28.88	18.85	4.35
10500	14.03	37.26	14.13	16.04	6.85	1.01	28.33	18.69	4.47
11000	13.88	36.83	13.58	15.06	6.56	1.00	28.14	18.81	4.54
11500	13.74	37.09	13.52	14.49	6.83	1.00	27.97	19.17	4.59
12000	13.77	36.98	13.90	14.58	6.76	1.00	27.28	18.91	4.63
12500	13.71	36.22	14.46	14.85	6.28	0.99	27.49	17.84	4.68
13000	13.63	35.22	15.00	15.05	5.70	0.99	27.77	17.88	4.77
13500	13.58	34.72	15.59	15.22	5.43	0.99	26.70	19.07	4.78
14000	13.68	35.76	15.04	13.58	5.95	0.98	26.57	18.68	4.86
14500	13.79	35.31	15.25	13.23	5.57	0.97	26.83	18.99	4.87
15000	13.87	34.73	15.21	12.67	5.14	0.96	27.96	19.20	4.93
15500	13.93	34.24	14.63	12.32	4.79	0.96	26.53	19.52	5.13
16000	14.01	34.24	13.69	11.75	4.68	0.96	26.90	18.33	5.11
16500	14.03	33.84	12.08	11.20	4.35	0.96	27.93	18.11	5.24
17000	13.93	33.73	10.52	10.39	4.17	0.96	26.16	19.15	5.37
17500	13.69	33.32	9.03	9.71	3.88	0.98	25.75	19.17	5.57
18000	13.30	33.02	7.46	8.91	3.60	1.00	27.98	18.16	5.80
18500	12.70	33.29	6.32	8.45	3.63	1.04	28.10	18.00	6.08
19000	11.95	33.38	5.39	8.56	3.67	1.10	27.09	17.92	6.33
19500	11.04	33.69	4.78	9.11	3.95	1.17	27.80	17.52	6.59
20000	10.13	34.30	4.22	9.95	4.41	1.25	31.31	16.64	6.87
20500	8.95	34.57	3.97	10.27	5.04	1.28	28.59	16.06	7.13
21000	7.74	34.32	3.97	10.10	5.59	1.28	25.57	15.06	7.41

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 = 4.75V, Id = 146.70mA @ Temperature = +25°C

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)
4000	8.77	46.22	6.10	3.08	14.62	0.62	19.48	12.02	15.62
4200	10.43	46.18	6.59	4.00	14.65	0.73	21.73	14.01	13.07
4400	11.46	45.23	7.36	5.08	13.93	0.81	24.37	15.29	11.10
4600	12.33	44.11	8.41	6.27	12.86	0.87	25.37	16.00	9.50
4800	13.03	42.89	9.70	7.55	11.59	0.90	27.90	16.72	8.26
5000	13.58	42.03	11.17	8.85	10.74	0.93	27.95	16.74	7.28
5200	13.99	41.16	12.83	10.14	9.86	0.94	33.19	17.39	6.70
5400	14.30	40.36	14.40	11.16	9.02	0.95	30.72	17.19	6.04
5600	14.52	39.78	15.98	11.96	8.43	0.95	30.50	17.26	5.61
5800	14.66	39.38	17.48	12.43	8.03	0.95	31.52	17.48	5.21
6000	14.80	38.85	18.94	12.82	7.51	0.95	34.36	17.77	4.96
6500	14.96	38.11	21.50	13.06	6.82	0.95	35.58	17.81	4.51
7000	15.06	37.60	25.01	13.44	6.42	0.95	33.98	17.83	4.26
7500	15.10	37.54	32.69	14.19	6.41	0.96	32.06	18.20	4.01
8000	15.06	37.18	31.80	14.87	6.21	0.96	33.00	17.42	3.93
8500	14.95	37.00	23.35	15.66	6.17	0.97	31.68	17.48	3.97
9000	14.82	37.28	19.21	16.44	6.46	0.98	31.01	17.33	4.08
9500	14.64	37.27	16.79	16.69	6.53	0.99	30.70	17.67	4.14
10000	14.42	37.00	15.38	16.82	6.45	1.00	29.86	18.13	4.26
10500	14.20	37.27	14.21	16.24	6.74	1.01	29.39	17.99	4.35
11000	14.05	36.83	13.69	15.25	6.46	1.00	29.11	18.13	4.42
11500	13.91	37.10	13.63	14.66	6.72	1.00	28.61	18.52	4.50
12000	13.94	36.97	14.03	14.73	6.64	1.00	27.98	18.26	4.54
12500	13.88	36.19	14.61	15.01	6.16	0.99	28.76	17.16	4.61
13000	13.81	35.20	15.16	15.26	5.58	0.99	28.98	17.20	4.64
13500	13.74	34.74	15.79	15.39	5.37	0.99	27.57	18.42	4.72
14000	13.84	35.69	15.21	13.75	5.81	0.98	27.66	18.02	4.78
14500	13.95	35.24	15.47	13.34	5.44	0.97	28.19	18.37	4.77
15000	14.05	34.72	15.42	12.73	5.05	0.96	28.78	18.62	4.85
15500	14.11	34.22	14.87	12.36	4.70	0.96	27.48	18.95	5.01
16000	14.19	34.29	13.93	11.80	4.62	0.95	28.51	17.73	5.00
16500	14.23	33.81	12.28	11.24	4.25	0.96	29.72	17.51	5.13
17000	14.15	33.70	10.73	10.42	4.08	0.96	27.65	18.54	5.22
17500	13.94	33.24	9.21	9.72	3.77	0.97	27.54	18.56	5.49
18000	13.58	32.89	7.62	8.89	3.47	0.99	31.46	17.51	5.68
18500	12.99	33.18	6.43	8.41	3.50	1.03	32.70	17.31	5.94
19000	12.25	33.29	5.48	8.50	3.54	1.09	33.23	17.20	6.21
19500	11.37	33.61	4.82	9.08	3.79	1.17	28.47	16.75	6.39
20000	10.47	34.27	4.25	10.03	4.25	1.25	26.64	15.85	6.69
20500	9.30	34.57	3.97	10.42	4.85	1.29	24.69	15.24	6.97
21000	8.09	34.35	3.93	10.27	5.38	1.29	22.52	14.23	7.24

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 = 5.25V, Id = 147.72mA @ Temperature = +25°C

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)
4000	8.35	46.19	5.98	3.07	15.11	0.63	20.41	12.64	15.70
4200	10.02	46.26	6.51	3.99	15.40	0.73	23.22	14.71	13.17
4400	11.10	45.34	7.31	5.07	14.67	0.81	27.59	16.03	11.19
4600	12.00	44.23	8.38	6.26	13.51	0.87	29.77	16.84	9.58
4800	12.73	42.99	9.68	7.53	12.11	0.90	35.25	17.60	8.32
5000	13.29	42.12	11.17	8.81	11.19	0.93	41.33	17.79	7.36
5200	13.71	41.23	12.84	10.08	10.24	0.94	34.80	18.39	6.73
5400	14.04	40.42	14.43	11.06	9.34	0.95	35.88	18.29	6.06
5600	14.26	39.83	16.02	11.81	8.71	0.95	35.74	18.38	5.65
5800	14.41	39.42	17.53	12.23	8.29	0.95	34.14	18.59	5.28
6000	14.55	38.87	19.01	12.57	7.72	0.95	32.66	18.88	5.04
6500	14.71	38.10	21.59	12.75	6.99	0.95	31.91	18.97	4.57
7000	14.81	37.59	25.37	13.09	6.57	0.95	31.28	19.01	4.33
7500	14.85	37.46	34.70	13.79	6.51	0.95	30.32	19.38	4.08
8000	14.80	37.25	32.26	14.47	6.43	0.96	30.22	18.61	4.01
8500	14.68	37.14	23.01	15.20	6.44	0.97	29.55	18.69	4.04
9000	14.53	37.41	18.82	15.92	6.74	0.98	29.03	18.57	4.15
9500	14.34	37.37	16.39	16.18	6.80	0.99	28.81	18.94	4.24
10000	14.10	36.98	15.00	16.22	6.64	1.00	28.38	19.40	4.33
10500	13.86	37.37	13.85	15.77	7.04	1.01	27.84	19.27	4.44
11000	13.70	36.96	13.32	14.86	6.76	1.00	27.72	19.39	4.48
11500	13.55	37.20	13.24	14.28	7.04	1.00	27.75	19.75	4.57
12000	13.55	37.10	13.57	14.36	6.99	1.00	27.07	19.52	4.63
12500	13.49	36.32	14.13	14.61	6.49	0.99	26.93	18.45	4.70
13000	13.40	35.34	14.55	14.85	5.90	0.99	27.04	18.48	4.74
13500	13.33	34.79	15.08	15.07	5.61	0.99	26.47	19.66	4.79
14000	13.42	35.86	14.63	13.43	6.16	0.98	26.16	19.30	4.86
14500	13.50	35.56	14.80	13.00	5.89	0.97	26.28	19.61	4.89
15000	13.57	34.89	14.70	12.49	5.39	0.96	27.00	19.81	4.96
15500	13.61	34.40	14.20	12.21	5.03	0.96	25.93	20.15	5.14
16000	13.68	34.48	13.28	11.71	4.96	0.96	25.94	18.97	5.09
16500	13.69	34.06	11.73	11.23	4.61	0.97	26.50	18.75	5.24
17000	13.60	33.94	10.30	10.47	4.42	0.97	25.51	19.75	5.36
17500	13.38	33.46	8.89	9.82	4.07	0.98	24.94	19.75	5.59
18000	13.02	33.16	7.39	8.95	3.76	1.00	25.87	18.73	5.76
18500	12.44	33.42	6.33	8.45	3.80	1.04	25.90	18.56	6.11
19000	11.74	33.48	5.41	8.42	3.79	1.09	25.21	18.50	6.35
19500	10.90	33.74	4.82	8.85	4.02	1.16	25.29	18.12	6.54
20000	10.03	34.35	4.27	9.57	4.47	1.24	26.66	17.25	6.87
20500	8.90	34.55	4.00	9.85	5.01	1.27	30.09	16.67	7.12
21000	7.73	34.27	3.96	9.73	5.49	1.27	28.11	15.66	7.39

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 = 5.00V, Id = 141.76mA @ Temperature = -45°C

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)
4000	11.53	45.69	6.67	2.78	9.81	0.56	19.46	11.37	14.71
4200	12.72	45.64	6.66	3.65	10.13	0.68	21.53	13.62	12.07
4400	13.34	44.83	7.20	4.76	10.34	0.78	24.18	15.13	10.06
4600	13.97	43.77	8.08	5.94	9.91	0.85	25.40	16.02	8.49
4800	14.53	42.74	9.25	7.22	9.32	0.89	26.54	16.73	7.24
5000	14.98	41.93	10.58	8.44	8.82	0.92	27.26	16.96	6.29
5200	15.33	41.14	12.01	9.75	8.28	0.94	28.19	17.58	5.70
5400	15.61	40.39	13.51	10.77	7.67	0.95	28.48	17.48	5.04
5600	15.80	39.88	14.83	11.57	7.27	0.95	28.54	17.49	4.65
5800	15.92	39.53	16.21	12.09	7.00	0.95	28.71	17.62	4.25
6000	16.08	38.94	17.92	12.81	6.55	0.95	29.03	17.84	4.01
6500	16.22	38.24	20.51	13.51	6.03	0.96	29.50	18.22	3.59
7000	16.34	37.75	24.19	14.49	5.70	0.96	29.78	18.08	3.35
7500	16.38	37.66	28.74	14.97	5.65	0.96	29.80	18.63	3.14
8000	16.35	37.40	29.78	15.17	5.52	0.96	30.21	17.85	3.03
8500	16.27	37.17	24.18	15.55	5.43	0.97	30.16	17.86	3.07
9000	16.18	37.41	20.22	16.53	5.64	0.98	30.44	17.97	3.17
9500	16.06	37.37	17.62	16.82	5.65	0.99	30.51	18.17	3.21
10000	15.87	37.09	16.17	17.07	5.56	0.99	30.79	18.48	3.32
10500	15.68	37.12	15.26	16.45	5.65	1.00	30.86	18.70	3.39
11000	15.58	36.77	15.59	15.24	5.47	0.99	30.72	18.82	3.46
11500	15.52	36.91	16.44	15.16	5.62	0.98	30.67	19.02	3.46
12000	15.57	36.73	16.72	15.80	5.51	0.98	30.84	18.89	3.50
12500	15.54	36.09	16.10	17.41	5.17	0.99	31.22	17.52	3.55
13000	15.50	35.15	15.45	18.37	4.67	1.00	31.06	17.69	3.64
13500	15.44	34.79	14.92	17.56	4.49	1.00	31.00	18.23	3.68
14000	15.48	35.61	14.67	13.83	4.78	0.97	31.36	18.03	3.75
14500	15.61	35.40	15.16	12.52	4.56	0.95	31.25	18.35	3.75
15000	15.79	34.63	17.39	11.60	4.09	0.93	29.35	18.49	3.79
15500	15.96	34.00	20.01	11.49	3.76	0.92	30.76	18.61	3.86
16000	16.19	33.87	19.00	11.22	3.59	0.91	30.37	17.93	3.84
16500	16.41	33.25	15.65	11.29	3.25	0.92	31.10	18.13	3.96
17000	16.51	32.93	12.77	10.68	3.01	0.92	31.12	17.96	4.07
17500	16.41	32.50	10.23	9.49	2.74	0.92	31.91	18.68	4.38
18000	16.06	32.23	8.06	7.30	2.43	0.87	30.91	18.52	4.59
18500	15.44	32.63	6.73	6.32	2.40	0.87	31.92	18.05	4.88
19000	14.83	32.71	5.89	6.15	2.33	0.92	30.18	17.82	5.00
19500	14.18	32.87	5.26	7.02	2.43	1.04	31.37	17.26	5.15
20000	13.79	33.27	4.80	9.61	2.71	1.21	33.35	17.07	5.20
20500	12.94	33.74	4.25	12.00	3.09	1.31	31.48	16.64	5.26
21000	11.98	33.77	4.17	13.72	3.56	1.34	26.71	15.87	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: Vd = 4.75V, Id = 140.02mA @ Temperature = -45°C

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)
4000	12.71	45.53	7.10	2.78	8.66	0.55	18.96	10.42	14.75
4200	13.63	45.33	6.76	3.62	8.85	0.67	20.83	12.71	12.09
4400	14.06	44.61	7.19	4.74	9.27	0.78	22.98	14.22	10.09
4600	14.59	43.63	8.03	5.91	9.06	0.85	24.01	15.08	8.47
4800	15.10	42.62	9.16	7.18	8.59	0.89	25.07	15.79	7.23
5000	15.52	41.89	10.45	8.40	8.23	0.92	25.56	15.99	6.30
5200	15.84	41.18	11.85	9.70	7.82	0.94	26.55	16.64	5.71
5400	16.11	40.37	13.28	10.73	7.22	0.95	26.68	16.51	5.04
5600	16.29	39.89	14.56	11.53	6.87	0.95	26.67	16.52	4.65
5800	16.40	39.55	15.86	12.04	6.63	0.95	26.80	16.62	4.27
6000	16.55	39.04	17.50	12.78	6.26	0.95	27.10	16.83	4.02
6500	16.69	38.29	19.90	13.49	5.74	0.96	27.49	17.19	3.59
7000	16.81	37.80	22.97	14.48	5.44	0.96	27.58	17.05	3.37
7500	16.85	37.73	26.28	14.95	5.40	0.96	27.61	17.64	3.12
8000	16.82	37.46	26.93	15.13	5.26	0.96	27.75	16.86	3.05
8500	16.75	37.19	23.54	15.48	5.15	0.96	27.60	16.86	3.03
9000	16.68	37.47	20.19	16.48	5.36	0.98	27.67	16.92	3.15
9500	16.57	37.35	17.85	16.72	5.33	0.98	27.76	17.08	3.20
10000	16.38	36.90	16.47	16.94	5.16	0.99	27.94	17.43	3.32
10500	16.22	37.19	15.78	16.51	5.39	0.99	27.94	17.63	3.38
11000	16.13	36.70	16.29	15.23	5.13	0.98	27.90	17.76	3.46
11500	16.06	36.82	17.18	15.23	5.26	0.98	28.16	17.96	3.47
12000	16.12	36.59	17.37	15.83	5.11	0.98	28.16	17.85	3.49
12500	16.10	35.96	16.50	17.49	4.79	0.99	28.00	16.50	3.51
13000	16.07	35.01	15.99	18.61	4.33	0.99	28.05	16.68	3.61
13500	16.02	34.70	15.64	17.72	4.19	0.99	28.33	17.15	3.67
14000	16.07	35.47	15.46	13.80	4.43	0.97	28.17	16.93	3.75
14500	16.23	35.22	16.36	12.61	4.20	0.95	28.26	17.23	3.76
15000	16.41	34.57	19.24	11.53	3.81	0.92	26.96	17.07	3.80
15500	16.59	33.88	22.07	11.46	3.47	0.91	27.98	17.32	3.89
16000	16.86	33.66	19.58	11.13	3.26	0.90	27.27	16.70	3.84
16500	17.11	32.99	16.29	11.13	2.92	0.91	27.37	16.92	3.97
17000	17.32	32.64	13.62	10.42	2.69	0.90	27.60	16.58	4.10
17500	17.33	32.09	11.36	9.08	2.41	0.87	28.45	17.24	4.37
18000	17.09	31.71	9.07	6.80	2.11	0.80	26.87	17.33	4.57
18500	16.53	32.08	7.53	5.76	2.05	0.79	26.92	16.93	4.87
19000	16.01	32.12	6.53	5.64	1.96	0.84	27.86	16.74	4.98
19500	15.46	32.25	5.75	6.66	2.02	0.98	27.94	16.17	5.14
20000	15.13	32.57	5.08	9.85	2.23	1.20	26.22	16.04	5.18
20500	14.24	33.30	4.29	13.14	2.60	1.32	25.91	15.60	5.24
21000	13.20	33.62	4.09	15.22	3.08	1.35	24.10	14.79	5.24

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 = 5.25V, Id = 143.18mA @ Temperature = -45°C

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)
4000	10.66	45.86	6.39	2.77	10.79	0.57	20.07	12.07	14.76
4200	12.02	45.81	6.58	3.66	11.14	0.68	22.43	14.31	12.14
4400	12.78	45.00	7.19	4.77	11.23	0.78	25.76	15.78	10.14
4600	13.48	43.88	8.11	5.95	10.63	0.85	27.18	16.69	8.52
4800	14.09	42.78	9.30	7.22	9.88	0.89	28.56	17.42	7.27
5000	14.56	42.00	10.65	8.43	9.34	0.92	29.64	17.72	6.32
5200	14.93	41.20	12.13	9.72	8.74	0.94	30.73	18.25	5.74
5400	15.22	40.36	13.66	10.74	8.01	0.95	31.27	18.25	5.07
5600	15.41	39.83	15.02	11.53	7.56	0.95	31.43	18.27	4.68
5800	15.54	39.45	16.44	12.02	7.25	0.95	31.78	18.40	4.29
6000	15.70	38.93	18.23	12.74	6.83	0.95	32.37	18.61	4.07
6500	15.86	38.16	20.95	13.43	6.23	0.95	33.37	19.05	3.61
7000	15.98	37.64	25.26	14.40	5.87	0.96	34.11	18.91	3.42
7500	16.01	37.58	31.87	14.85	5.84	0.96	34.36	19.42	3.12
8000	15.97	37.34	33.05	15.01	5.71	0.96	36.15	18.67	3.08
8500	15.87	37.15	24.65	15.38	5.66	0.97	35.28	18.71	3.11
9000	15.78	37.46	19.97	16.41	5.92	0.98	36.75	18.88	3.20
9500	15.64	37.30	17.28	16.61	5.86	0.99	36.30	19.06	3.24
10000	15.42	36.96	15.65	16.80	5.74	1.00	34.78	19.32	3.36
10500	15.24	37.18	14.71	16.30	5.95	1.00	34.44	19.56	3.46
11000	15.14	36.74	15.03	15.06	5.71	0.99	33.81	19.70	3.48
11500	15.06	36.89	15.77	15.05	5.88	0.98	32.73	19.88	3.51
12000	15.10	36.75	16.11	15.69	5.80	0.99	31.72	19.78	3.54
12500	15.06	36.12	15.50	17.31	5.45	1.00	31.49	18.41	3.57
13000	15.00	35.17	14.78	18.31	4.92	1.00	31.50	18.61	3.65
13500	14.92	34.86	14.12	17.38	4.76	1.00	30.44	19.17	3.73
14000	14.95	35.72	13.76	13.65	5.09	0.98	30.21	19.00	3.81
14500	15.07	35.39	14.23	12.48	4.80	0.96	30.27	19.38	3.80
15000	15.22	34.77	16.12	11.52	4.39	0.93	29.78	19.64	3.84
15500	15.37	34.12	18.40	11.49	4.05	0.92	29.02	19.68	3.93
16000	15.59	34.04	17.60	11.29	3.90	0.92	28.96	18.99	3.88
16500	15.75	33.38	14.70	11.47	3.53	0.93	29.12	19.21	4.01
17000	15.81	33.20	11.74	10.96	3.32	0.94	28.67	19.03	4.16
17500	15.61	32.79	9.31	9.76	3.03	0.95	27.55	19.67	4.45
18000	15.18	32.54	7.35	7.57	2.70	0.92	27.76	19.40	4.64
18500	14.51	33.03	6.23	6.57	2.71	0.92	28.19	18.85	4.94
19000	13.89	33.09	5.52	6.33	2.63	0.96	26.90	18.61	5.05
19500	13.22	33.24	5.00	7.04	2.75	1.06	26.10	18.06	5.19
20000	12.82	33.53	4.66	9.27	3.03	1.20	26.91	17.89	5.28
20500	12.04	33.85	4.25	11.27	3.43	1.29	28.42	17.48	5.36
21000	11.16	33.71	4.23	12.98	3.87	1.32	34.38	16.75	5.43

Typical Performance Data

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 5.00V, Id = 146.02mA @ Temperature = +85°C

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)
4000	7.34	46.41	6.02	3.36	18.47	0.67	19.84	12.11	16.36
4200	9.17	46.36	6.70	4.31	18.15	0.76	22.23	14.10	13.90
4400	10.35	45.33	7.58	5.39	16.65	0.83	25.29	15.37	11.95
4600	11.30	44.17	8.69	6.56	14.99	0.88	26.83	16.16	10.39
4800	12.05	42.90	10.03	7.81	13.22	0.91	30.16	16.90	9.14
5000	12.63	41.97	11.51	9.07	12.04	0.93	30.41	17.02	8.18
5200	13.06	41.04	13.12	10.30	10.90	0.94	36.42	17.56	7.55
5400	13.39	40.24	14.66	11.28	9.90	0.95	33.87	17.51	6.87
5600	13.63	39.67	16.36	12.04	9.24	0.95	33.75	17.67	6.43
5800	13.80	39.14	17.88	12.49	8.64	0.95	34.56	17.95	6.00
6000	13.94	38.65	19.32	12.77	8.10	0.95	35.05	18.22	5.79
6500	14.11	37.94	21.52	12.83	7.35	0.95	34.75	18.01	5.28
7000	14.18	37.34	24.27	13.03	6.84	0.95	33.00	18.34	5.08
7500	14.21	37.23	32.85	13.84	6.82	0.95	31.82	18.49	4.83
8000	14.16	36.98	29.92	14.84	6.72	0.96	32.10	17.93	4.77
8500	14.04	36.88	22.35	15.63	6.74	0.97	31.03	18.00	4.82
9000	13.87	37.18	18.68	16.03	7.08	0.98	31.10	17.57	4.97
9500	13.70	36.94	16.61	15.71	6.96	0.99	30.46	18.02	5.04
10000	13.46	37.01	15.32	15.86	7.16	1.00	29.59	18.70	5.18
10500	13.25	37.16	14.37	15.37	7.39	1.00	29.20	18.33	5.29
11000	13.08	36.64	13.59	14.73	7.01	1.00	29.18	18.36	5.38
11500	12.93	37.13	13.15	14.08	7.47	1.00	28.83	18.60	5.47
12000	12.90	36.89	13.25	14.06	7.30	1.00	28.23	18.28	5.54
12500	12.83	36.25	13.73	14.26	6.88	1.00	28.24	17.89	5.62
13000	12.78	35.22	14.68	14.40	6.22	0.99	28.65	17.57	5.70
13500	12.72	34.64	16.46	14.71	5.93	0.98	27.62	18.52	5.73
14000	12.84	35.55	16.90	13.65	6.45	0.97	27.36	18.43	5.78
14500	12.95	35.37	17.39	13.59	6.26	0.97	28.12	18.48	5.76
15000	13.04	34.63	15.84	13.43	5.65	0.97	28.11	18.65	5.90
15500	13.02	34.40	13.61	12.74	5.39	0.97	27.02	19.04	6.11
16000	12.98	34.54	11.58	11.82	5.30	0.98	27.09	18.36	6.12
16500	12.82	34.30	9.83	10.47	4.96	0.98	28.29	17.84	6.32
17000	12.57	34.30	8.64	9.30	4.78	0.98	26.66	18.84	6.42
17500	12.22	33.95	7.82	8.36	4.48	0.97	26.95	18.20	6.64
18000	11.87	33.71	7.22	8.03	4.30	0.99	28.42	17.31	6.72
18500	11.46	33.62	6.73	8.42	4.35	1.03	28.63	17.38	6.87
19000	10.87	33.57	6.25	9.52	4.60	1.10	29.03	17.29	7.04
19500	10.08	33.65	5.67	11.17	5.01	1.18	31.94	17.06	7.26
20000	9.09	34.22	5.12	12.81	5.85	1.25	31.42	16.16	7.56
20500	7.72	34.35	4.69	12.92	6.63	1.28	30.96	15.43	7.96
21000	6.10	34.20	4.33	11.86	7.36	1.29	26.74	14.31	8.52

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 = 4.75V, Id = 146.11mA @ Temperature = +85°C

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)
4000	7.52	46.41	6.07	3.37	18.19	0.67	19.48	11.86	16.32
4200	9.35	46.25	6.74	4.32	17.62	0.76	21.65	13.75	13.87
4400	10.52	45.24	7.61	5.40	16.22	0.83	24.14	14.99	11.92
4600	11.45	44.10	8.71	6.58	14.64	0.88	25.18	15.72	10.35
4800	12.19	42.82	10.05	7.83	12.93	0.91	27.72	16.46	9.11
5000	12.76	41.89	11.53	9.09	11.78	0.93	27.54	16.47	8.15
5200	13.18	40.95	13.14	10.35	10.65	0.94	31.67	17.04	7.53
5400	13.51	40.19	14.67	11.35	9.73	0.95	29.89	16.94	6.84
5600	13.75	39.61	16.35	12.14	9.07	0.95	29.96	17.10	6.40
5800	13.91	39.09	17.89	12.62	8.50	0.95	31.04	17.38	6.00
6000	14.05	38.62	19.31	12.93	7.98	0.95	33.30	17.66	5.74
6500	14.21	37.90	21.50	13.02	7.25	0.95	33.78	17.42	5.27
7000	14.29	37.30	24.16	13.25	6.75	0.95	33.61	17.74	5.04
7500	14.32	37.22	31.76	14.12	6.75	0.96	33.01	17.89	4.78
8000	14.27	36.94	29.58	15.16	6.63	0.96	32.84	17.32	4.71
8500	14.16	36.83	22.43	16.01	6.63	0.97	31.91	17.39	4.77
9000	14.00	37.12	18.84	16.42	6.94	0.98	30.68	16.92	4.94
9500	13.84	36.88	16.80	16.04	6.83	0.99	31.21	17.36	4.99
10000	13.61	36.88	15.51	16.12	6.96	1.00	30.54	18.05	5.13
10500	13.41	37.10	14.57	15.62	7.23	1.00	30.26	17.67	5.24
11000	13.25	36.55	13.79	14.96	6.84	1.00	30.23	17.70	5.28
11500	13.10	37.02	13.35	14.27	7.26	1.00	29.67	17.96	5.42
12000	13.08	36.78	13.47	14.23	7.09	1.00	29.08	17.62	5.48
12500	13.02	36.12	13.96	14.44	6.67	0.99	29.50	17.23	5.56
13000	12.98	35.10	14.97	14.58	6.02	0.99	29.65	16.90	5.61
13500	12.93	34.57	16.86	14.89	5.77	0.98	28.48	17.88	5.63
14000	13.05	35.45	17.32	13.80	6.24	0.97	28.41	17.81	5.65
14500	13.19	35.25	17.86	13.74	6.03	0.96	29.27	17.86	5.70
15000	13.28	34.44	16.27	13.54	5.41	0.97	28.56	18.04	5.82
15500	13.27	34.25	13.90	12.81	5.17	0.97	27.87	18.46	6.01
16000	13.24	34.36	11.78	11.81	5.07	0.98	28.43	17.73	6.06
16500	13.09	34.11	9.95	10.39	4.72	0.98	29.89	17.21	6.24
17000	12.83	34.14	8.71	9.19	4.56	0.97	27.84	18.20	6.33
17500	12.48	33.80	7.87	8.27	4.27	0.97	29.05	17.55	6.51
18000	12.12	33.57	7.25	7.99	4.12	0.99	31.50	16.62	6.62
18500	11.71	33.50	6.75	8.44	4.18	1.03	36.84	16.68	6.76
19000	11.10	33.47	6.27	9.68	4.45	1.11	36.12	16.56	6.93
19500	10.30	33.59	5.67	11.45	4.88	1.19	27.10	16.31	7.19
20000	9.28	34.16	5.13	13.23	5.72	1.25	25.95	15.43	7.49
20500	7.88	34.31	4.70	13.38	6.52	1.29	36.00	14.68	7.90
21000	6.25	34.19	4.34	12.23	7.28	1.30	23.50	13.54	8.44

Typical Performance Data

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 5.25V, Id = 146.63mA @ Temperature = +85°C

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)
4000	7.12	46.35	5.97	3.35	18.70	0.67	20.16	12.47	16.44
4200	8.92	46.34	6.64	4.30	18.53	0.76	22.77	14.47	13.98
4400	10.12	45.46	7.54	5.37	17.30	0.83	26.47	15.77	12.01
4600	11.08	44.38	8.67	6.54	15.71	0.88	28.60	16.59	10.44
4800	11.84	43.09	10.01	7.77	13.82	0.91	32.62	17.35	9.21
5000	12.43	42.13	11.51	9.00	12.50	0.93	34.51	17.53	8.22
5200	12.88	41.16	13.12	10.19	11.25	0.94	37.42	18.07	7.61
5400	13.22	40.37	14.68	11.11	10.23	0.95	37.66	18.05	6.93
5600	13.46	39.76	16.38	11.81	9.49	0.95	36.27	18.24	6.50
5800	13.63	39.27	17.92	12.20	8.89	0.95	34.81	18.49	6.08
6000	13.78	38.77	19.34	12.42	8.32	0.95	33.74	18.77	5.84
6500	13.94	38.00	21.46	12.41	7.50	0.94	33.14	18.58	5.36
7000	14.02	37.38	24.36	12.55	6.97	0.94	31.98	18.92	5.13
7500	14.04	37.30	34.63	13.31	6.97	0.95	31.08	19.05	4.86
8000	13.98	37.02	29.86	14.22	6.86	0.96	30.94	18.53	4.81
8500	13.85	36.94	21.83	14.95	6.90	0.97	30.09	18.62	4.87
9000	13.66	37.22	18.23	15.33	7.24	0.98	29.89	18.20	5.04
9500	13.47	37.07	16.21	15.10	7.20	0.99	29.55	18.69	5.12
10000	13.21	37.08	14.96	15.20	7.37	1.00	28.90	19.37	5.25
10500	12.99	37.35	14.04	14.80	7.72	1.00	28.47	19.00	5.36
11000	12.79	36.85	13.26	14.26	7.37	1.00	28.49	19.03	5.45
11500	12.62	37.33	12.83	13.66	7.85	1.00	28.32	19.26	5.55
12000	12.57	37.11	12.91	13.62	7.70	1.00	27.66	18.94	5.64
12500	12.48	36.45	13.33	13.83	7.27	1.00	27.52	18.60	5.71
13000	12.41	35.39	14.26	13.97	6.56	0.99	27.72	18.27	5.77
13500	12.35	34.85	15.95	14.20	6.29	0.98	27.05	19.22	5.81
14000	12.45	35.83	16.37	13.29	6.92	0.97	26.73	19.17	5.87
14500	12.56	35.62	16.81	13.34	6.70	0.97	27.18	19.22	5.89
15000	12.61	34.78	15.40	13.23	6.01	0.97	27.32	19.39	5.99
15500	12.58	34.63	13.19	12.67	5.79	0.98	26.37	19.78	6.21
16000	12.53	34.80	11.23	11.83	5.71	0.99	26.15	19.14	6.24
16500	12.37	34.53	9.57	10.51	5.32	0.99	26.90	18.59	6.42
17000	12.13	34.58	8.47	9.30	5.15	0.99	25.96	19.53	6.54
17500	11.80	34.16	7.75	8.27	4.76	0.98	25.83	18.82	6.74
18000	11.49	33.85	7.24	7.84	4.52	0.98	26.38	17.93	6.85
18500	11.14	33.73	6.81	8.08	4.53	1.02	26.46	18.01	6.97
19000	10.64	33.61	6.37	9.05	4.71	1.08	26.38	17.91	7.18
19500	9.96	33.67	5.78	10.50	5.07	1.16	28.00	17.71	7.41
20000	9.05	34.17	5.21	12.05	5.82	1.23	28.93	16.85	7.70
20500	7.75	34.25	4.74	12.25	6.50	1.27	28.23	16.10	8.15
21000	6.15	34.17	4.34	11.32	7.22	1.28	33.94	14.93	8.64