

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 = 4.00V, Id = 68mA @ 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)
9000	22.92	67.81	10.44	11.99	81.23	1.02	17.62	6.34	2.23
9500	24.29	61.86	11.60	12.18	36.15	1.00	18.40	7.53	1.98
10000	25.39	60.57	12.03	12.15	27.79	1.00	18.22	8.15	1.81
10500	26.29	58.61	11.50	12.20	19.88	1.00	19.40	8.27	1.74
11000	27.02	60.08	10.36	12.65	21.27	1.03	19.26	8.11	1.70
11500	27.67	58.37	9.23	13.76	15.91	1.07	19.05	8.31	1.76
12000	28.20	61.13	8.44	15.64	20.35	1.11	18.58	8.65	1.77
12500	28.57	62.69	8.19	17.99	23.43	1.13	19.43	8.41	1.85
13000	28.77	59.85	8.41	17.94	16.68	1.13	19.02	8.68	1.83
13500	28.83	57.77	9.24	14.86	13.23	1.08	19.46	8.87	1.87
14000	28.70	56.31	10.46	12.54	11.52	1.03	19.73	8.62	1.79
14500	28.48	54.57	12.06	11.09	9.81	0.98	20.70	9.21	1.77
15000	28.20	54.41	13.69	10.53	10.07	0.95	20.49	9.15	1.69
15500	27.95	52.00	15.27	10.49	7.99	0.93	20.96	9.33	1.67
16000	27.68	51.56	16.58	10.77	7.96	0.93	21.06	9.41	1.61
16500	27.40	49.69	16.74	11.23	6.71	0.94	21.46	9.19	1.59
17000	27.13	50.77	16.15	11.78	7.88	0.95	21.38	9.21	1.56
17500	26.86	50.52	15.33	12.15	7.91	0.96	20.50	8.97	1.51
18000	26.59	49.29	14.63	12.22	7.08	0.96	20.90	8.94	1.57
18500	26.35	49.17	14.32	11.99	7.16	0.96	20.44	9.19	1.48
19000	26.11	48.93	14.29	11.55	7.14	0.96	19.54	8.68	1.55
19500	25.92	48.77	14.58	11.16	7.18	0.95	21.40	8.76	1.52
20000	25.73	47.20	15.35	10.87	6.16	0.93	20.34	9.44	1.59
20500	25.50	46.80	16.35	10.62	6.06	0.92	20.62	9.52	1.48
21000	25.16	46.32	16.74	10.38	5.95	0.92	19.21	9.91	1.51
21500	24.58	46.31	16.10	9.81	6.25	0.91	20.99	10.61	1.57
22000	24.01	46.70	14.76	9.21	6.80	0.90	20.96	10.65	1.54
22500	23.59	46.96	13.50	8.90	7.20	0.90	21.56	10.79	1.60
23000	23.23	47.32	12.27	8.81	7.69	0.91	22.11	10.48	1.59
23500	22.86	47.23	11.29	8.76	7.82	0.92	21.99	10.93	1.58
24000	22.43	47.48	10.86	8.69	8.39	0.92	21.63	11.05	1.65
24500	21.98	47.51	10.47	8.50	8.73	0.93	20.84	11.25	1.68
25000	21.65	48.14	10.30	8.35	9.66	0.92	22.93	11.19	1.59
25500	21.29	47.66	9.87	8.02	9.34	0.92	22.40	11.07	1.73
26000	20.86	48.38	9.42	7.72	10.38	0.92	21.22	11.06	1.81
26500	20.41	47.88	8.93	7.40	10.01	0.92	21.31	11.14	1.83
27000	19.97	48.01	8.52	7.20	10.41	0.92	21.83	11.15	1.99
27500	19.57	47.41	8.21	7.12	10.01	0.92	20.69	10.94	2.07
28000	19.25	46.14	7.97	7.34	8.98	0.95	22.33	11.16	2.16
28500	19.02	46.31	7.90	7.67	9.50	0.97	20.96	10.91	2.18
29000	18.76	45.49	7.85	8.18	9.10	0.99	21.06	10.91	2.18
29500	18.54	45.24	8.01	8.78	9.32	1.01	22.17	10.81	2.23
30000	18.34	45.90	8.17	9.27	10.56	1.02	20.56	11.16	2.27
31000	17.84	46.16	8.32	9.90	11.87	1.04	21.01	10.99	2.40

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 = 3.75V, Id = 63mA @ 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)
9000	22.62	69.03	10.61	12.09	97.34	1.02	16.77	5.68	2.29
9500	23.98	63.57	11.73	12.29	45.72	1.00	17.71	6.89	2.01
10000	25.07	58.79	12.08	12.24	23.53	1.00	17.26	7.51	1.79
10500	25.97	61.72	11.43	12.26	29.46	1.01	18.68	7.76	1.82
11000	26.69	60.80	10.21	12.69	23.91	1.04	18.50	7.58	1.81
11500	27.33	59.90	9.02	13.80	19.58	1.08	18.21	7.91	1.80
12000	27.87	61.71	8.21	15.65	22.40	1.12	18.09	8.12	1.84
12500	28.24	60.56	7.95	18.12	18.86	1.14	18.30	7.76	1.91
13000	28.47	57.87	8.16	18.25	13.64	1.14	18.55	8.06	1.93
13500	28.55	57.74	8.96	15.14	13.53	1.09	19.12	8.38	1.92
14000	28.43	54.72	10.16	12.70	9.85	1.04	19.01	8.14	1.85
14500	28.22	53.46	11.74	11.23	8.86	0.98	19.91	8.75	1.78
15000	27.95	52.49	13.35	10.63	8.31	0.95	19.76	8.69	1.75
15500	27.70	51.88	14.90	10.56	8.10	0.94	20.65	8.73	1.64
16000	27.42	51.84	16.15	10.85	8.46	0.93	20.52	8.81	1.63
16500	27.13	50.57	16.35	11.32	7.64	0.94	20.88	8.72	1.60
17000	26.86	49.85	15.83	11.89	7.31	0.95	20.86	8.73	1.61
17500	26.59	49.13	15.05	12.22	6.96	0.96	20.51	8.36	1.61
18000	26.32	48.56	14.38	12.32	6.72	0.97	20.19	8.45	1.59
18500	26.08	48.74	14.12	12.06	7.03	0.97	20.07	8.71	1.59
19000	25.83	48.32	14.04	11.64	6.88	0.96	19.62	8.19	1.58
19500	25.64	47.76	14.32	11.26	6.60	0.95	20.67	8.28	1.53
20000	25.46	46.87	15.08	10.96	6.12	0.94	19.09	8.83	1.55
20500	25.23	46.84	16.10	10.72	6.28	0.93	19.41	8.91	1.53
21000	24.91	46.06	16.61	10.48	5.95	0.92	19.04	9.31	1.54
21500	24.35	46.39	16.11	9.90	6.49	0.91	20.51	10.03	1.55
22000	23.79	46.98	14.85	9.31	7.23	0.90	20.51	10.07	1.49
22500	23.38	46.88	13.56	9.01	7.35	0.90	20.98	10.20	1.58
23000	23.02	47.30	12.32	8.90	7.89	0.91	21.02	9.90	1.56
23500	22.65	47.13	11.34	8.85	7.95	0.92	20.82	10.35	1.61
24000	22.22	47.73	10.87	8.78	8.86	0.93	21.33	10.47	1.65
24500	21.77	47.15	10.48	8.58	8.60	0.93	20.20	10.67	1.73
25000	21.45	48.31	10.29	8.43	10.11	0.93	22.13	10.61	1.69
25500	21.08	48.15	9.85	8.08	10.11	0.92	21.54	10.50	1.74
26000	20.65	47.95	9.39	7.79	10.13	0.92	20.99	10.49	1.80
26500	20.21	47.15	8.90	7.45	9.45	0.92	21.77	10.57	1.87
27000	19.77	46.74	8.51	7.24	9.25	0.92	21.02	10.58	1.95
27500	19.37	46.81	8.19	7.16	9.58	0.93	21.77	10.38	2.07
28000	19.04	47.45	7.94	7.35	10.68	0.95	20.85	10.59	2.18
28500	18.81	45.90	7.85	7.72	9.30	0.97	23.86	10.34	2.17
29000	18.55	45.02	7.78	8.20	8.79	1.00	21.39	10.33	2.14
29500	18.33	45.46	7.93	8.79	9.78	1.01	21.76	10.21	2.23
30000	18.13	45.16	8.08	9.29	9.91	1.03	20.69	10.58	2.25
31000	17.62	46.59	8.21	9.90	12.74	1.04	21.48	10.41	2.43

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 = 4.25V, Id = 73mA @ 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)
9000	23.16	63.93	10.31	11.90	50.30	1.02	18.43	6.94	2.24
9500	24.54	64.38	11.49	12.10	46.76	1.00	19.23	8.13	1.96
10000	25.64	64.95	11.98	12.07	44.52	1.00	18.54	8.62	1.80
10500	26.56	58.53	11.56	12.16	19.11	1.00	19.57	8.73	1.75
11000	27.30	59.77	10.49	12.61	19.91	1.03	19.54	8.58	1.75
11500	27.95	61.35	9.38	13.77	21.83	1.07	19.38	8.91	1.78
12000	28.48	63.04	8.63	15.65	24.72	1.11	19.37	9.24	1.80
12500	28.84	62.69	8.40	17.92	22.91	1.13	19.59	8.88	1.82
13000	29.02	60.77	8.65	17.67	18.17	1.12	19.69	9.13	1.88
13500	29.07	57.64	9.48	14.66	12.75	1.08	19.85	9.30	1.86
14000	28.92	56.45	10.72	12.39	11.46	1.02	20.17	9.04	1.79
14500	28.69	53.71	12.35	10.98	8.69	0.97	21.19	9.75	1.78
15000	28.41	54.31	13.99	10.46	9.74	0.94	21.39	9.69	1.73
15500	28.17	53.60	15.60	10.41	9.36	0.93	22.01	9.75	1.62
16000	27.89	51.75	16.96	10.71	7.95	0.93	21.65	9.83	1.65
16500	27.61	51.28	17.07	11.17	7.84	0.94	21.32	9.75	1.59
17000	27.35	50.42	16.43	11.71	7.38	0.95	22.03	9.77	1.54
17500	27.09	49.63	15.56	12.06	6.97	0.96	21.34	9.40	1.57
18000	26.82	49.92	14.84	12.16	7.41	0.96	21.20	9.51	1.57
18500	26.58	49.19	14.52	11.90	7.00	0.96	20.72	9.75	1.61
19000	26.33	48.70	14.49	11.48	6.79	0.95	21.13	9.12	1.58
19500	26.14	48.71	14.82	11.08	6.95	0.94	21.09	9.33	1.52
20000	25.95	47.19	15.60	10.79	6.00	0.93	20.60	9.86	1.59
20500	25.71	47.43	16.58	10.54	6.35	0.92	21.01	10.07	1.50
21000	25.37	47.13	16.84	10.28	6.36	0.91	20.01	10.32	1.57
21500	24.77	46.86	16.07	9.70	6.49	0.90	21.70	11.02	1.57
22000	24.19	46.84	14.70	9.12	6.75	0.90	21.01	11.05	1.50
22500	23.77	47.39	13.44	8.81	7.38	0.90	22.15	11.19	1.53
23000	23.41	47.58	12.22	8.73	7.74	0.91	23.43	10.87	1.53
23500	23.03	47.85	11.27	8.68	8.20	0.92	21.87	11.45	1.63
24000	22.60	47.81	10.85	8.61	8.51	0.92	21.75	11.57	1.62
24500	22.14	47.27	10.46	8.42	8.31	0.92	21.32	11.77	1.72
25000	21.81	47.98	10.32	8.28	9.30	0.92	22.88	11.71	1.70
25500	21.45	48.00	9.88	7.94	9.49	0.92	23.04	11.59	1.75
26000	21.02	48.09	9.44	7.65	9.84	0.91	21.31	11.59	1.82
26500	20.57	47.97	8.94	7.34	9.92	0.91	21.23	11.66	1.84
27000	20.13	47.29	8.55	7.14	9.44	0.91	22.38	11.68	1.92
27500	19.72	46.64	8.24	7.07	9.00	0.92	22.76	11.48	2.11
28000	19.42	46.74	8.00	7.28	9.42	0.94	22.08	11.68	2.15
28500	19.18	45.80	7.95	7.64	8.83	0.96	21.36	11.54	2.24
29000	18.93	45.56	7.90	8.17	9.00	0.99	21.89	11.45	2.21
29500	18.72	45.82	8.07	8.77	9.80	1.01	22.39	11.34	2.29
30000	18.52	45.42	8.24	9.26	9.82	1.02	21.58	11.60	2.31
31000	18.03	45.92	8.38	9.90	11.33	1.03	21.78	11.51	2.44

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 = 4.00V, Id = 73.00mA @ 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)
9000	24.56	67.03	9.90	11.46	59.59	1.02	18.84	7.31	1.54
9500	25.87	62.49	11.18	11.61	31.52	1.00	19.52	8.32	1.29
10000	26.93	62.18	11.82	11.41	27.32	0.99	19.29	8.88	1.23
10500	27.80	62.33	11.54	11.21	25.01	0.99	20.33	8.94	1.18
11000	28.52	61.71	10.54	11.47	21.10	1.01	20.38	8.80	1.14
11500	29.15	60.70	9.34	12.37	17.13	1.05	20.09	9.14	1.21
12000	29.70	66.80	8.43	14.11	32.12	1.10	19.93	9.35	1.24
12500	30.07	63.48	8.05	16.41	21.05	1.13	20.04	9.13	1.22
13000	30.29	60.25	8.29	16.70	14.35	1.13	20.42	9.25	1.28
13500	30.36	57.29	9.18	13.88	10.26	1.08	20.68	9.60	1.30
14000	30.20	58.82	10.50	11.68	12.64	1.02	21.19	9.30	1.19
14500	29.98	54.64	12.10	10.38	8.12	0.96	21.70	9.90	1.15
15000	29.67	54.55	13.79	9.83	8.41	0.93	21.85	9.85	1.08
15500	29.41	52.79	15.26	9.79	7.18	0.92	22.17	10.02	1.01
16000	29.13	52.65	16.32	9.99	7.39	0.91	22.34	10.12	1.08
16500	28.84	51.27	17.01	10.29	6.60	0.92	22.91	9.87	1.00
17000	28.60	50.00	16.97	10.79	5.95	0.93	22.88	9.89	0.96
17500	28.36	50.34	16.35	11.26	6.39	0.94	22.12	9.55	0.96
18000	28.11	49.46	15.20	11.50	5.94	0.95	21.67	9.48	1.00
18500	27.88	49.57	14.10	11.51	6.16	0.95	21.25	9.75	0.95
19000	27.65	49.10	13.66	11.32	5.97	0.95	21.09	9.29	0.94
19500	27.48	48.56	13.62	11.10	5.73	0.95	21.14	9.26	0.97
20000	27.35	47.67	14.29	10.73	5.28	0.93	21.71	9.99	0.94
20500	27.18	46.76	16.16	10.32	4.89	0.91	21.33	10.08	0.94
21000	26.90	46.07	17.57	9.94	4.66	0.90	20.88	10.36	0.96
21500	26.27	46.58	16.71	9.23	5.17	0.88	21.75	11.05	0.92
22000	25.60	46.68	14.32	8.55	5.44	0.88	21.78	11.06	0.94
22500	25.14	47.14	12.34	8.28	5.85	0.88	22.17	11.21	0.98
23000	24.87	47.51	11.79	8.49	6.30	0.90	23.13	10.86	0.97
23500	24.57	47.07	11.07	8.64	6.17	0.91	22.41	11.38	0.98
24000	24.15	48.08	11.19	8.57	7.27	0.91	23.02	11.52	1.07
24500	23.66	47.40	10.76	8.07	6.93	0.90	22.44	11.62	1.10
25000	23.33	47.68	10.61	7.62	7.28	0.88	23.14	11.52	1.02
25500	22.84	47.50	9.43	7.09	7.14	0.88	23.03	11.34	1.12
26000	22.38	48.14	8.65	6.88	7.80	0.89	21.96	11.30	1.18
26500	21.98	47.51	8.31	6.76	7.45	0.90	23.35	11.43	1.25
27000	21.64	48.26	8.11	6.84	8.41	0.91	21.46	11.54	1.31
27500	21.33	47.56	8.30	6.77	8.03	0.90	21.90	11.33	1.37
28000	21.06	47.02	8.46	6.91	7.90	0.91	22.06	11.54	1.37
28500	20.67	45.89	8.16	6.82	7.13	0.91	22.98	11.25	1.46
29000	20.24	45.57	7.77	6.88	7.07	0.93	22.12	11.21	1.53
29500	19.91	45.60	7.62	7.38	7.48	0.97	25.21	11.07	1.64
30000	19.73	45.30	7.57	8.25	7.66	1.01	21.93	11.47	1.69
31000	19.49	45.56	8.29	9.81	8.91	1.04	22.22	11.46	1.66

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 = 3.75V, Id = 68mA @ 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)
9000	24.29	68.38	10.06	11.57	72.23	1.02	18.06	6.53	1.60
9500	25.60	63.80	11.31	11.71	38.02	1.00	19.06	7.67	1.25
10000	26.64	60.10	11.91	11.49	22.32	0.99	18.48	8.37	1.20
10500	27.50	58.31	11.51	11.33	16.34	0.99	19.99	8.43	1.14
11000	28.22	60.24	10.42	11.54	18.42	1.01	19.43	8.15	1.13
11500	28.85	62.25	9.18	12.40	21.11	1.06	19.65	8.61	1.20
12000	29.39	63.00	8.24	14.12	21.33	1.11	19.81	8.81	1.25
12500	29.77	61.08	7.85	16.49	16.40	1.14	19.72	8.48	1.27
13000	30.00	61.84	8.06	16.95	17.67	1.13	19.66	8.74	1.32
13500	30.09	59.07	8.93	14.10	12.92	1.09	20.26	9.10	1.32
14000	29.94	57.13	10.18	11.83	10.67	1.02	20.48	8.82	1.15
14500	29.73	55.13	11.81	10.49	8.80	0.97	21.83	9.43	1.17
15000	29.43	54.66	13.49	9.90	8.73	0.93	20.82	9.38	1.14
15500	29.17	52.70	14.98	9.86	7.30	0.92	21.96	9.42	1.11
16000	28.89	52.91	16.03	10.06	7.82	0.92	21.78	9.65	1.03
16500	28.61	51.16	16.63	10.38	6.70	0.92	21.85	9.40	1.04
17000	28.35	50.53	16.52	10.85	6.48	0.93	22.93	9.28	0.98
17500	28.11	49.78	15.94	11.34	6.16	0.94	21.68	9.05	1.00
18000	27.86	49.51	14.94	11.58	6.15	0.95	21.57	8.87	1.01
18500	27.62	49.05	13.96	11.57	5.97	0.96	21.36	9.14	1.00
19000	27.39	48.48	13.51	11.39	5.72	0.96	21.92	8.65	0.99
19500	27.23	48.67	13.54	11.17	5.97	0.95	22.48	8.76	0.94
20000	27.10	47.24	14.16	10.80	5.18	0.93	21.76	9.36	1.00
20500	26.93	46.64	15.81	10.41	4.96	0.92	21.53	9.47	0.93
21000	26.66	46.22	17.15	10.05	4.87	0.90	20.23	9.75	1.00
21500	26.05	46.53	16.74	9.35	5.29	0.89	21.85	10.45	0.96
22000	25.40	46.51	14.49	8.68	5.48	0.88	21.22	10.47	0.94
22500	24.95	46.79	12.53	8.39	5.79	0.89	21.95	10.62	0.98
23000	24.67	47.37	11.86	8.57	6.37	0.90	24.75	10.28	0.98
23500	24.37	46.74	11.08	8.72	6.10	0.92	21.69	10.79	0.96
24000	23.95	47.39	11.16	8.64	6.88	0.92	21.00	10.93	0.97
24500	23.46	47.10	10.76	8.17	6.87	0.90	21.53	11.03	1.06
25000	23.14	47.71	10.54	7.71	7.46	0.89	23.96	10.94	1.02
25500	22.66	47.59	9.51	7.18	7.41	0.89	23.16	10.74	1.14
26000	22.21	47.45	8.75	6.96	7.41	0.89	22.02	10.70	1.16
26500	21.79	47.16	8.34	6.82	7.34	0.90	22.56	10.82	1.30
27000	21.45	46.18	8.11	6.89	6.78	0.91	23.52	10.86	1.27
27500	21.13	46.14	8.21	6.79	7.00	0.90	22.36	10.76	1.34
28000	20.84	45.81	8.32	6.96	7.03	0.91	20.85	10.96	1.29
28500	20.47	45.23	8.08	6.86	6.72	0.92	22.49	10.67	1.51
29000	20.05	45.43	7.78	6.95	7.13	0.94	22.12	10.53	1.54
29500	19.73	44.42	7.63	7.43	6.67	0.97	22.44	10.48	1.63
30000	19.54	45.04	7.59	8.26	7.60	1.01	21.37	10.77	1.68
31000	19.27	45.55	8.21	9.81	9.09	1.04	23.11	10.76	1.67

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 = 4.25V, Id = 78mA @ 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)
9000	24.79	64.81	9.78	11.38	44.71	1.03	19.35	7.92	1.50
9500	26.11	64.92	11.05	11.54	40.43	1.00	20.01	8.91	1.31
10000	27.17	63.81	11.76	11.31	31.96	0.99	19.73	9.47	1.19
10500	28.05	60.06	11.56	11.16	18.74	0.98	21.32	9.53	1.14
11000	28.78	60.47	10.63	11.42	17.78	1.01	20.56	9.27	1.15
11500	29.42	62.26	9.47	12.34	19.94	1.05	20.58	9.62	1.17
12000	29.97	62.74	8.59	14.13	19.61	1.10	20.93	9.95	1.20
12500	30.34	65.22	8.24	16.37	25.16	1.12	21.19	9.61	1.19
13000	30.54	60.98	8.51	16.49	15.28	1.12	20.71	9.71	1.31
13500	30.59	60.46	9.45	13.67	14.51	1.07	21.80	10.04	1.23
14000	30.42	58.50	10.77	11.55	11.92	1.01	21.53	9.86	1.22
14500	30.18	55.21	12.39	10.29	8.48	0.95	22.39	10.45	1.15
15000	29.87	54.38	14.08	9.77	8.07	0.92	22.01	10.39	1.02
15500	29.61	52.51	15.57	9.76	6.81	0.91	22.48	10.44	1.00
16000	29.33	52.34	16.62	9.92	6.97	0.91	23.27	10.68	0.97
16500	29.06	51.95	17.37	10.25	6.96	0.91	23.82	10.43	0.98
17000	28.81	50.54	17.37	10.71	6.17	0.92	24.00	10.45	0.97
17500	28.58	49.96	16.67	11.18	5.97	0.93	22.94	10.11	0.97
18000	28.33	50.69	15.51	11.41	6.65	0.95	22.47	10.05	0.95
18500	28.10	49.67	14.29	11.43	6.07	0.95	22.25	10.33	0.99
19000	27.87	48.97	13.82	11.26	5.73	0.95	22.71	9.87	0.92
19500	27.71	48.19	13.74	11.05	5.35	0.94	22.14	9.84	0.91
20000	27.57	47.98	14.47	10.66	5.33	0.93	22.16	10.56	0.95
20500	27.39	47.05	16.48	10.23	4.93	0.91	22.03	10.65	0.87
21000	27.10	46.51	17.91	9.84	4.78	0.89	20.92	10.91	0.97
21500	26.45	47.06	16.60	9.10	5.32	0.88	22.03	11.59	0.91
22000	25.78	46.48	14.19	8.46	5.19	0.87	22.57	11.60	1.00
22500	25.31	47.50	12.21	8.20	5.95	0.88	22.37	11.77	0.99
23000	25.04	47.75	11.75	8.42	6.33	0.90	23.01	11.41	0.93
23500	24.75	48.04	11.05	8.58	6.73	0.91	22.33	11.92	0.99
24000	24.33	48.46	11.22	8.50	7.42	0.91	23.31	12.08	1.01
24500	23.83	47.47	10.75	7.99	6.84	0.90	22.93	12.15	1.08
25000	23.50	48.05	10.62	7.53	7.41	0.88	23.44	12.06	1.05
25500	22.99	47.43	9.37	7.02	6.94	0.88	23.20	11.88	1.20
26000	22.54	47.91	8.61	6.82	7.43	0.89	22.55	11.93	1.21
26500	22.15	47.63	8.29	6.72	7.39	0.89	23.96	11.97	1.28
27000	21.82	47.56	8.12	6.81	7.59	0.90	24.06	12.07	1.31
27500	21.51	45.27	8.35	6.74	6.08	0.90	23.37	11.86	1.38
28000	21.24	46.60	8.54	6.88	7.38	0.90	21.35	12.08	1.37
28500	20.84	45.74	8.21	6.75	6.83	0.91	22.56	11.78	1.44
29000	20.41	46.14	7.82	6.85	7.41	0.93	21.46	11.74	1.57
29500	20.08	45.38	7.63	7.36	7.15	0.96	21.07	11.60	1.66
30000	19.91	45.36	7.59	8.26	7.57	1.01	21.55	12.03	1.70
31000	19.69	45.60	8.37	9.85	8.78	1.04	22.83	12.01	1.80

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 = 4.00V, Id = 65mA @ 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)
9000	21.52	75.40	11.12	12.64	236.03	1.02	16.60	5.42	2.88
9500	22.94	63.90	12.20	12.86	54.77	1.00	17.52	6.66	2.56
10000	24.07	59.56	12.40	12.85	29.39	1.00	17.28	7.31	2.45
10500	24.98	58.23	11.47	12.98	22.48	1.02	18.39	7.44	2.29
11000	25.72	61.37	10.18	13.58	29.03	1.05	18.27	7.30	2.35
11500	26.39	60.91	8.97	14.82	24.92	1.09	18.14	7.65	2.34
12000	26.90	60.85	8.28	17.42	23.16	1.13	17.77	7.97	2.40
12500	27.27	61.64	8.06	20.29	24.36	1.15	18.72	7.63	2.37
13000	27.53	60.61	8.37	18.92	21.25	1.13	18.35	7.92	2.43
13500	27.59	58.01	9.28	15.34	15.93	1.09	18.97	8.23	2.40
14000	27.47	55.28	10.61	12.90	11.99	1.03	18.99	8.00	2.39
14500	27.30	54.80	11.97	11.77	11.76	0.99	19.98	8.61	2.33
15000	27.04	53.77	13.45	11.28	10.92	0.96	19.84	8.58	2.28
15500	26.79	52.04	14.97	11.32	9.38	0.95	20.64	8.63	2.29
16000	26.52	50.76	16.04	11.61	8.47	0.95	20.83	8.72	2.22
16500	26.23	51.12	16.20	11.95	9.20	0.95	20.85	8.63	2.15
17000	25.97	49.89	15.67	12.36	8.27	0.96	20.53	8.63	2.13
17500	25.67	49.89	14.96	12.66	8.57	0.97	19.95	8.38	2.08
18000	25.40	49.14	14.37	12.69	8.11	0.97	19.84	8.34	2.12
18500	25.14	49.29	14.11	12.42	8.48	0.97	19.75	8.70	2.11
19000	24.89	49.32	14.15	11.94	8.74	0.97	19.63	8.19	2.12
19500	24.68	48.47	14.68	11.47	8.13	0.95	20.09	8.27	2.10
20000	24.45	47.38	15.95	11.01	7.41	0.94	19.94	8.91	2.07
20500	24.19	46.95	17.16	10.66	7.27	0.92	19.67	8.97	2.10
21000	23.79	46.20	16.88	10.24	6.92	0.91	19.06	9.31	2.12
21500	23.22	46.09	15.43	9.82	7.18	0.91	20.81	10.02	2.11
22000	22.70	46.97	14.28	9.39	8.26	0.91	20.55	10.11	2.11
22500	22.32	47.23	13.29	9.34	8.79	0.92	21.62	10.15	2.17
23000	22.00	47.54	12.40	9.47	9.40	0.93	21.72	9.84	2.15
23500	21.65	47.56	11.73	9.57	9.76	0.94	21.21	10.31	2.15
24000	21.25	48.18	11.40	9.51	10.92	0.95	21.30	10.58	2.22
24500	20.78	47.29	11.03	9.15	10.24	0.94	21.00	10.77	2.25
25000	20.38	48.17	10.77	8.73	11.66	0.93	22.23	10.67	2.28
25500	20.00	47.96	10.18	8.29	11.56	0.93	21.98	10.56	2.32
26000	19.56	47.81	9.55	7.96	11.64	0.93	20.93	10.55	2.41
26500	19.13	48.14	8.95	7.73	12.34	0.93	21.96	10.65	2.52
27000	18.70	46.85	8.46	7.63	10.94	0.94	21.61	10.66	2.58
27500	18.31	46.55	8.05	7.62	10.86	0.95	21.31	10.55	2.70
28000	18.01	46.53	7.86	7.87	11.23	0.97	20.05	10.85	2.59
28500	17.75	46.33	7.75	8.21	11.41	0.99	21.88	10.50	2.85
29000	17.55	46.11	7.87	8.72	11.68	1.01	20.28	10.40	2.83
29500	17.36	45.54	7.88	9.45	11.47	1.04	20.81	10.32	2.98
30000	17.16	45.65	8.06	10.21	12.27	1.05	21.26	10.71	3.00
31000	16.76	46.09	8.55	11.18	14.17	1.06	21.29	10.70	3.15

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 = 3.75V, Id = 60mA @ 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)
9000	21.22	66.65	11.27	12.74	89.59	1.02	16.30	4.77	2.99
9500	22.63	63.04	12.32	12.98	51.53	1.00	16.87	6.15	2.59
10000	23.76	61.99	12.42	12.92	40.37	1.00	16.60	6.81	2.44
10500	24.65	58.80	11.37	13.06	24.90	1.02	18.22	6.94	2.40
11000	25.39	59.15	10.02	13.63	23.26	1.05	17.66	6.79	2.31
11500	26.06	62.13	8.78	14.83	29.63	1.10	17.54	7.14	2.34
12000	26.57	60.81	8.07	17.37	23.73	1.14	17.52	7.47	2.46
12500	26.96	60.39	7.82	20.43	21.64	1.16	17.65	7.26	2.38
13000	27.23	59.82	8.12	19.31	19.89	1.14	17.75	7.44	2.51
13500	27.31	56.99	9.00	15.67	14.50	1.10	18.38	7.77	2.46
14000	27.21	54.43	10.31	13.10	11.15	1.04	18.31	7.55	2.39
14500	27.05	54.37	11.65	11.89	11.47	1.00	19.39	8.17	2.36
15000	26.80	53.32	13.11	11.38	10.64	0.97	19.27	8.15	2.28
15500	26.55	51.56	14.60	11.39	9.12	0.96	19.84	8.19	2.18
16000	26.27	50.97	15.64	11.67	8.93	0.95	19.73	8.28	2.23
16500	25.98	50.45	15.87	12.04	8.77	0.96	19.82	8.17	2.15
17000	25.71	50.01	15.38	12.46	8.64	0.97	19.92	8.18	2.13
17500	25.40	49.15	14.71	12.77	8.11	0.97	19.66	7.93	2.13
18000	25.14	49.07	14.15	12.81	8.28	0.98	19.38	7.89	2.13
18500	24.88	49.33	13.89	12.52	8.78	0.98	19.52	8.24	2.04
19000	24.62	48.33	13.91	12.05	8.04	0.97	19.10	7.61	2.13
19500	24.42	48.04	14.42	11.55	7.97	0.96	19.93	7.81	2.04
20000	24.20	47.16	15.66	11.11	7.44	0.94	19.14	8.33	2.17
20500	23.95	46.88	16.89	10.76	7.42	0.93	19.39	8.53	2.05
21000	23.56	45.86	16.78	10.37	6.86	0.92	18.58	8.87	2.13
21500	23.01	46.22	15.46	9.93	7.49	0.91	20.22	9.46	2.12
22000	22.50	46.44	14.36	9.51	7.99	0.91	19.61	9.55	2.17
22500	22.12	46.86	13.36	9.45	8.66	0.92	20.37	9.71	2.15
23000	21.80	47.22	12.41	9.57	9.30	0.93	20.32	9.29	2.10
23500	21.45	47.19	11.76	9.65	9.60	0.94	20.19	9.75	2.24
24000	21.05	47.08	11.43	9.59	9.89	0.95	20.69	10.03	2.43
24500	20.59	47.46	11.03	9.24	10.70	0.94	20.78	10.23	2.32
25000	20.20	47.98	10.75	8.83	11.68	0.94	21.96	10.13	2.31
25500	19.82	48.01	10.17	8.37	11.92	0.93	21.90	10.02	2.40
26000	19.37	48.10	9.54	8.04	12.31	0.93	20.58	10.01	2.42
26500	18.95	48.31	8.94	7.79	12.88	0.94	20.60	10.10	2.54
27000	18.52	47.54	8.46	7.67	12.11	0.94	21.61	10.21	2.57
27500	18.13	48.37	8.03	7.66	13.67	0.96	20.67	10.00	2.66
28000	17.82	46.91	7.84	7.91	12.01	0.98	22.38	10.19	2.78
28500	17.56	46.47	7.71	8.25	11.87	1.00	20.72	9.94	2.83
29000	17.35	46.67	7.81	8.76	12.74	1.02	20.48	9.85	2.90
29500	17.16	45.42	7.80	9.44	11.52	1.04	21.26	9.75	2.93
30000	16.96	46.38	7.97	10.18	13.61	1.05	20.09	10.15	2.99
31000	16.55	46.88	8.44	11.12	15.81	1.06	20.55	10.13	3.10

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 = 4.25V, Id = 69mA @ 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)
9000	21.77	64.96	10.97	12.54	68.57	1.02	17.19	6.02	2.88
9500	23.20	63.83	12.09	12.78	52.61	1.01	17.87	7.24	2.58
10000	24.34	60.01	12.38	12.74	29.97	1.00	17.64	7.76	2.45
10500	25.25	59.37	11.54	12.93	24.84	1.01	18.78	7.88	2.35
11000	26.00	59.24	10.31	13.57	22.07	1.05	18.85	7.75	2.30
11500	26.67	61.05	9.14	14.84	24.67	1.09	18.92	8.11	2.34
12000	27.17	60.87	8.48	17.46	22.65	1.12	18.67	8.42	2.36
12500	27.54	60.80	8.26	20.19	21.63	1.14	18.72	8.07	2.40
13000	27.78	59.41	8.59	18.63	18.12	1.12	18.94	8.34	2.40
13500	27.82	58.23	9.53	15.11	16.00	1.08	19.50	8.63	2.46
14000	27.68	56.75	10.90	12.77	13.93	1.02	19.55	8.39	2.39
14500	27.51	54.46	12.27	11.66	11.06	0.99	20.08	8.99	2.31
15000	27.25	54.19	13.76	11.20	11.20	0.96	20.41	8.85	2.31
15500	27.00	52.67	15.30	11.24	9.85	0.95	20.81	9.03	2.23
16000	26.73	51.64	16.37	11.52	9.16	0.95	21.41	9.11	2.22
16500	26.44	51.28	16.50	11.88	9.15	0.95	21.48	9.03	2.17
17000	26.18	49.83	15.93	12.27	8.02	0.96	21.46	9.02	2.14
17500	25.88	50.13	15.20	12.58	8.60	0.97	20.68	8.79	2.07
18000	25.62	49.53	14.59	12.60	8.27	0.97	20.71	8.87	2.13
18500	25.36	49.86	14.32	12.33	8.83	0.97	20.25	9.10	2.10
19000	25.10	48.88	14.34	11.87	8.11	0.96	20.66	8.60	2.11
19500	24.89	48.29	14.92	11.40	7.79	0.95	20.80	8.68	2.09
20000	24.65	47.36	16.21	10.92	7.21	0.93	20.34	9.31	2.15
20500	24.39	48.08	17.39	10.57	8.07	0.92	20.07	9.37	2.06
21000	23.98	46.71	16.94	10.15	7.17	0.91	19.57	9.69	2.08
21500	23.39	46.42	15.37	9.72	7.29	0.91	21.28	10.39	2.12
22000	22.87	47.27	14.20	9.30	8.35	0.91	20.77	10.48	2.03
22500	22.48	47.52	13.21	9.27	8.89	0.91	21.58	10.65	2.11
23000	22.17	47.40	12.34	9.40	9.06	0.93	22.55	10.20	2.12
23500	21.81	47.46	11.72	9.49	9.45	0.94	21.26	10.80	2.15
24000	21.40	48.18	11.40	9.45	10.71	0.94	21.17	11.08	2.23
24500	20.93	48.19	11.03	9.08	11.13	0.94	21.25	11.27	2.27
25000	20.53	48.09	10.79	8.66	11.34	0.93	22.24	11.17	2.27
25500	20.15	48.33	10.20	8.23	11.86	0.92	21.78	11.06	2.30
26000	19.71	48.71	9.57	7.90	12.66	0.92	20.98	11.06	2.44
26500	19.28	48.52	8.97	7.69	12.67	0.93	21.04	11.25	2.54
27000	18.85	47.80	8.51	7.60	11.98	0.94	22.78	11.26	2.61
27500	18.47	47.06	8.08	7.57	11.33	0.95	22.64	11.05	2.70
28000	18.17	45.80	7.88	7.83	10.11	0.97	22.39	11.26	2.91
28500	17.90	46.70	7.81	8.18	11.73	0.99	22.51	11.01	2.88
29000	17.70	46.56	7.95	8.71	12.14	1.01	20.95	10.91	2.90
29500	17.53	46.47	7.95	9.44	12.58	1.03	22.14	10.82	2.98
30000	17.32	46.93	8.13	10.21	14.01	1.05	21.13	11.21	2.93
31000	16.93	47.55	8.61	11.18	16.49	1.06	21.34	11.20	2.96