

## 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
11200	27.29	60.77	9.90	12.97	22.16	1.05	19.47	8.43	1.78
11400	27.54	60.34	9.44	13.48	20.31	1.07	18.96	8.29	1.80
11600	27.77	61.55	9.01	14.07	22.59	1.08	19.16	8.55	1.83
11800	28.00	62.42	8.70	14.75	24.22	1.10	19.22	8.38	1.80
12000	28.20	61.13	8.44	15.64	20.35	1.11	18.58	8.65	1.77
12200	28.36	61.68	8.28	16.66	21.29	1.13	18.88	8.21	1.77
12400	28.50	59.70	8.18	17.64	16.71	1.13	18.51	8.25	1.83
12600	28.63	60.72	8.20	18.32	18.57	1.14	19.03	8.85	1.85
12800	28.69	60.06	8.29	18.54	17.20	1.13	19.95	8.49	1.87
13000	28.77	59.85	8.41	17.94	16.68	1.13	19.02	8.68	1.83
13200	28.82	59.69	8.68	16.76	16.38	1.11	19.86	9.08	1.88
13400	28.83	56.80	9.03	15.53	11.81	1.10	20.31	8.41	1.88
13600	28.82	56.10	9.49	14.27	10.98	1.07	19.54	9.02	1.88
13800	28.74	57.52	9.97	13.30	13.13	1.05	19.65	8.83	1.80
14000	28.70	56.31	10.46	12.54	11.52	1.03	19.73	8.62	1.79
14200	28.62	55.42	11.09	11.84	10.54	1.01	20.48	8.96	1.79
14400	28.52	54.91	11.74	11.29	10.11	0.99	20.58	9.08	1.79
14600	28.42	53.62	12.39	10.91	8.88	0.97	20.96	9.34	1.78
14800	28.30	55.13	13.02	10.69	10.75	0.96	20.68	9.18	1.76
15000	28.20	54.41	13.69	10.53	10.07	0.95	20.49	9.15	1.69
15200	28.09	52.76	14.44	10.48	8.51	0.94	20.97	8.97	1.73
15400	28.00	53.57	14.99	10.47	9.47	0.94	20.64	9.32	1.64
15600	27.91	51.61	15.62	10.53	7.72	0.93	20.81	9.45	1.64
15800	27.79	51.74	16.15	10.58	7.98	0.93	20.59	9.01	1.66
16000	27.68	51.56	16.58	10.77	7.96	0.93	21.06	9.41	1.61
16200	27.56	51.62	16.79	10.91	8.16	0.93	20.08	9.03	1.61
16400	27.46	51.24	16.80	11.11	7.93	0.94	20.96	9.13	1.60
16600	27.35	50.75	16.67	11.35	7.63	0.94	22.04	9.44	1.55
16800	27.23	49.95	16.41	11.57	7.08	0.95	21.44	8.85	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
21000	25.16	46.32	16.74	10.38	5.95	0.92	19.21	9.91	1.51
22000	24.01	46.70	14.76	9.21	6.80	0.90	20.96	10.65	1.54
23000	23.23	47.32	12.27	8.81	7.69	0.91	22.11	10.48	1.59

## 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
11200	26.96	63.20	9.73	13.01	30.31	1.05	18.62	7.77	1.74
11400	27.21	59.97	9.25	13.52	20.13	1.07	18.36	7.76	1.82
11600	27.44	60.03	8.81	14.10	19.57	1.09	18.94	8.03	1.78
11800	27.67	59.33	8.49	14.76	17.49	1.11	18.56	7.85	1.79
12000	27.87	61.71	8.21	15.65	22.40	1.12	18.09	8.12	1.84
12200	28.03	59.90	8.05	16.67	17.85	1.13	18.35	7.68	1.80
12400	28.18	60.27	7.95	17.69	18.34	1.14	17.67	7.72	1.89
12600	28.31	60.80	7.97	18.50	19.28	1.14	18.28	8.20	1.89
12800	28.38	61.25	8.03	18.81	20.22	1.14	19.01	7.98	1.91
13000	28.47	57.87	8.16	18.25	13.64	1.14	18.55	8.06	1.93
13200	28.53	58.60	8.41	17.09	14.82	1.12	19.27	8.45	1.93
13400	28.53	58.29	8.74	15.76	14.39	1.10	19.45	7.92	1.95
13600	28.54	56.56	9.21	14.52	11.88	1.08	18.87	8.41	1.86
13800	28.46	56.70	9.69	13.51	12.26	1.06	19.15	8.35	1.87
14000	28.43	54.72	10.16	12.70	9.85	1.04	19.01	8.14	1.85
14200	28.36	55.23	10.79	11.99	10.59	1.01	19.74	8.48	1.79
14400	28.26	54.60	11.41	11.42	10.02	0.99	19.86	8.61	1.82
14600	28.17	55.24	12.05	11.03	10.98	0.98	20.57	8.88	1.78
14800	28.04	53.87	12.68	10.79	9.56	0.96	20.44	8.59	1.81
15000	27.95	52.49	13.35	10.63	8.31	0.95	19.76	8.69	1.75
15200	27.84	53.12	14.10	10.54	9.10	0.94	20.84	8.37	1.72
15400	27.75	52.14	14.62	10.55	8.27	0.94	20.01	8.86	1.68
15600	27.65	52.24	15.22	10.59	8.52	0.94	19.76	8.85	1.63
15800	27.53	51.95	15.74	10.67	8.40	0.93	19.69	8.41	1.74
16000	27.42	51.84	16.15	10.85	8.46	0.93	20.52	8.81	1.63
16200	27.30	51.31	16.37	11.00	8.11	0.94	19.62	8.56	1.64
16400	27.20	51.36	16.40	11.21	8.29	0.94	20.47	8.66	1.60
16600	27.08	50.55	16.30	11.44	7.68	0.94	20.79	8.84	1.62
16800	26.96	49.95	16.07	11.66	7.29	0.95	20.31	8.24	1.59
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
21000	24.91	46.06	16.61	10.48	5.95	0.92	19.04	9.31	1.54
22000	23.79	46.98	14.85	9.31	7.23	0.90	20.51	10.07	1.49
23000	23.02	47.30	12.32	8.90	7.89	0.91	21.02	9.90	1.56

## Typical Performance Data

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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
11200	27.57	60.77	10.05	12.97	21.52	1.04	19.99	8.90	1.76
11400	27.82	62.41	9.60	13.48	25.12	1.06	19.49	8.76	1.80
11600	28.05	60.53	9.19	14.08	19.57	1.08	20.03	9.02	1.75
11800	28.28	62.35	8.87	14.78	23.41	1.09	20.03	8.85	1.77
12000	28.48	63.04	8.63	15.65	24.72	1.11	19.37	9.24	1.80
12200	28.63	63.96	8.47	16.69	27.06	1.12	19.32	8.81	1.84
12400	28.77	61.67	8.39	17.58	20.48	1.13	19.20	8.72	1.80
12600	28.89	60.79	8.43	18.20	18.34	1.13	19.64	9.31	1.85
12800	28.95	60.67	8.52	18.31	18.04	1.13	20.31	8.94	1.90
13000	29.02	60.77	8.65	17.67	18.17	1.12	19.69	9.13	1.88
13200	29.07	61.77	8.92	16.51	20.38	1.10	20.74	9.52	1.90
13400	29.07	59.82	9.27	15.26	16.36	1.09	20.25	8.84	1.85
13600	29.05	57.39	9.75	14.06	12.48	1.06	20.03	9.45	1.86
13800	28.96	58.61	10.25	13.15	14.56	1.04	20.19	9.26	1.81
14000	28.92	56.45	10.72	12.39	11.46	1.02	20.17	9.04	1.79
14200	28.84	56.20	11.36	11.70	11.28	1.00	20.98	9.38	1.79
14400	28.74	54.44	12.02	11.17	9.37	0.98	21.03	9.49	1.77
14600	28.63	53.41	12.68	10.81	8.47	0.96	21.58	9.75	1.74
14800	28.51	54.87	13.31	10.61	10.21	0.95	21.77	9.58	1.83
15000	28.41	54.31	13.99	10.46	9.74	0.94	21.39	9.69	1.73
15200	28.30	53.06	14.75	10.40	8.59	0.93	21.58	9.38	1.70
15400	28.21	52.90	15.33	10.40	8.58	0.93	21.03	9.72	1.73
15600	28.12	53.44	15.96	10.44	9.28	0.93	21.05	9.87	1.64
15800	28.01	51.90	16.49	10.53	7.92	0.93	21.07	9.43	1.62
16000	27.89	51.75	16.96	10.71	7.95	0.93	21.65	9.83	1.65
16200	27.77	50.81	17.13	10.88	7.27	0.93	20.64	9.58	1.65
16400	27.67	51.40	17.16	11.05	7.89	0.93	22.57	9.55	1.56
16600	27.56	51.65	16.98	11.28	8.25	0.94	22.14	9.87	1.59
16800	27.45	50.45	16.72	11.50	7.31	0.94	22.31	9.28	1.60
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
21000	25.37	47.13	16.84	10.28	6.36	0.91	20.01	10.32	1.57
22000	24.19	46.84	14.70	9.12	6.75	0.90	21.01	11.05	1.50
23000	23.41	47.58	12.22	8.73	7.74	0.91	23.43	10.87	1.53

## 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
11200	28.79	63.62	10.04	11.70	25.25	1.03	20.47	9.11	1.15
11400	29.04	60.04	9.55	12.10	16.13	1.04	20.50	9.02	1.18
11600	29.26	59.14	9.09	12.64	14.07	1.07	20.51	9.23	1.17
11800	29.51	59.10	8.71	13.23	13.53	1.08	20.25	9.07	1.22
12000	29.70	66.80	8.43	14.11	32.12	1.10	19.93	9.35	1.24
12200	29.88	61.85	8.22	15.06	17.79	1.12	20.22	8.92	1.26
12400	30.02	64.53	8.05	16.01	23.87	1.13	19.60	9.00	1.30
12600	30.14	62.90	8.07	16.73	19.61	1.13	20.22	9.44	1.25
12800	30.21	62.60	8.13	17.11	18.89	1.13	20.53	9.42	1.24
13000	30.29	60.25	8.29	16.70	14.35	1.13	20.42	9.25	1.28
13200	30.35	62.33	8.53	15.66	18.21	1.11	20.83	9.65	1.29
13400	30.34	58.96	8.91	14.51	12.41	1.09	21.39	9.10	1.28
13600	30.34	57.79	9.49	13.30	10.95	1.06	20.81	9.58	1.32
13800	30.25	57.39	9.92	12.43	10.61	1.04	20.42	9.40	1.23
14000	30.20	58.82	10.50	11.68	12.64	1.02	21.19	9.30	1.19
14200	30.14	55.19	11.16	10.98	8.41	0.99	22.12	9.68	1.17
14400	30.02	54.83	11.81	10.56	8.23	0.97	21.06	9.78	1.16
14600	29.92	55.39	12.42	10.21	8.92	0.95	22.31	10.04	1.15
14800	29.78	55.39	13.14	9.99	9.10	0.94	22.79	9.87	1.15
15000	29.67	54.55	13.79	9.83	8.41	0.93	21.85	9.85	1.08
15200	29.56	53.18	14.42	9.79	7.32	0.92	22.27	9.70	1.06
15400	29.46	53.16	14.94	9.77	7.43	0.92	22.13	10.01	1.09
15600	29.36	52.97	15.58	9.79	7.39	0.91	22.31	10.02	1.03
15800	29.24	52.61	16.04	9.86	7.22	0.91	21.72	9.71	1.05
16000	29.13	52.65	16.32	9.99	7.39	0.91	22.34	10.12	1.08
16200	29.00	51.95	16.62	10.09	6.95	0.91	22.05	9.90	1.02
16400	28.90	51.56	16.92	10.21	6.76	0.92	22.99	9.80	1.00
16600	28.80	51.26	16.99	10.39	6.64	0.92	22.15	10.13	0.99
16800	28.70	51.29	16.99	10.58	6.77	0.92	22.49	9.39	1.01
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
21000	26.90	46.07	17.57	9.94	4.66	0.90	20.88	10.36	0.96
22000	25.60	46.68	14.32	8.55	5.44	0.88	21.78	11.06	0.94
23000	24.87	47.51	11.79	8.49	6.30	0.90	23.13	10.86	0.97

## 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
11200	28.48	61.85	9.90	11.78	21.29	1.03	19.95	8.46	1.17
11400	28.73	61.76	9.40	12.13	20.28	1.05	19.53	8.48	1.16
11600	28.95	60.51	8.94	12.68	17.00	1.07	19.78	8.69	1.20
11800	29.20	60.85	8.53	13.26	17.04	1.09	19.78	8.53	1.21
12000	29.39	63.00	8.24	14.12	21.33	1.11	19.81	8.81	1.25
12200	29.57	62.87	8.03	15.09	20.60	1.12	19.76	8.38	1.23
12400	29.71	61.65	7.87	16.09	17.60	1.14	18.80	8.34	1.31
12600	29.84	62.26	7.87	16.87	18.69	1.14	19.21	8.91	1.26
12800	29.92	65.48	7.91	17.29	26.95	1.14	19.92	8.55	1.28
13000	30.00	61.84	8.06	16.95	17.67	1.13	19.66	8.74	1.32
13200	30.07	61.19	8.27	15.93	16.33	1.12	20.55	9.02	1.29
13400	30.07	58.33	8.66	14.76	11.84	1.10	20.56	8.48	1.33
13600	30.08	57.44	9.20	13.50	10.77	1.07	20.48	9.08	1.28
13800	29.99	57.76	9.63	12.61	11.34	1.05	20.25	8.91	1.30
14000	29.94	57.13	10.18	11.83	10.67	1.02	20.48	8.82	1.15
14200	29.89	55.75	10.86	11.14	9.20	1.00	21.09	9.06	1.25
14400	29.78	55.23	11.51	10.67	8.82	0.98	21.17	9.31	1.20
14600	29.68	55.03	12.12	10.31	8.78	0.96	21.70	9.44	1.19
14800	29.54	54.84	12.83	10.08	8.75	0.94	21.90	9.28	1.15
15000	29.43	54.66	13.49	9.90	8.73	0.93	20.82	9.38	1.14
15200	29.33	53.21	14.15	9.84	7.54	0.93	21.34	9.10	1.07
15400	29.23	52.64	14.66	9.83	7.18	0.92	21.33	9.41	1.12
15600	29.13	53.06	15.30	9.87	7.67	0.92	21.35	9.54	1.04
15800	29.01	52.21	15.75	9.92	7.09	0.91	20.86	9.10	1.11
16000	28.89	52.91	16.03	10.06	7.82	0.92	21.78	9.65	1.03
16200	28.77	51.31	16.41	10.13	6.65	0.92	21.78	9.28	1.12
16400	28.67	51.37	16.59	10.29	6.79	0.92	22.18	9.19	0.99
16600	28.56	51.27	16.62	10.47	6.83	0.92	21.71	9.53	1.02
16800	28.45	50.64	16.61	10.67	6.47	0.93	21.33	8.78	1.02
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
21000	26.66	46.22	17.15	10.05	4.87	0.90	20.23	9.75	1.00
22000	25.40	46.51	14.49	8.68	5.48	0.88	21.22	10.47	0.94
23000	24.67	47.37	11.86	8.57	6.37	0.90	24.75	10.28	0.98

## 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
11200	29.06	61.50	10.15	11.69	19.24	1.02	20.80	9.58	1.12
11400	29.31	64.13	9.68	12.07	25.13	1.04	20.56	9.50	1.15
11600	29.53	62.89	9.26	12.66	21.18	1.06	21.35	9.70	1.25
11800	29.78	61.32	8.86	13.24	17.02	1.08	21.48	9.55	1.24
12000	29.97	62.74	8.59	14.13	19.61	1.10	20.93	9.95	1.20
12200	30.15	62.61	8.40	15.07	18.97	1.11	20.62	9.40	1.14
12400	30.28	62.78	8.24	16.02	19.07	1.12	19.89	9.48	1.22
12600	30.40	65.16	8.26	16.67	24.88	1.13	20.71	9.91	1.23
12800	30.46	62.86	8.34	16.97	19.04	1.13	21.59	9.66	1.32
13000	30.54	60.98	8.51	16.49	15.28	1.12	20.71	9.71	1.31
13200	30.59	62.34	8.74	15.46	17.82	1.10	21.79	10.10	1.22
13400	30.58	59.34	9.15	14.29	12.71	1.08	21.81	9.54	1.21
13600	30.58	57.52	9.75	13.10	10.39	1.05	21.45	10.15	1.22
13800	30.47	57.61	10.20	12.27	10.65	1.03	21.56	9.84	1.20
14000	30.42	58.50	10.77	11.55	11.92	1.01	21.53	9.86	1.22
14200	30.35	56.14	11.45	10.88	9.18	0.98	22.60	10.11	1.12
14400	30.23	55.35	12.11	10.46	8.54	0.96	22.31	10.20	1.14
14600	30.12	55.17	12.71	10.13	8.51	0.95	21.93	10.46	1.15
14800	29.99	54.88	13.43	9.91	8.39	0.93	23.42	10.29	1.15
15000	29.87	54.38	14.08	9.77	8.07	0.92	22.01	10.39	1.02
15200	29.76	53.41	14.74	9.73	7.35	0.92	22.47	10.13	1.04
15400	29.67	54.17	15.23	9.72	8.15	0.91	22.39	10.43	1.09
15600	29.57	52.96	15.88	9.76	7.22	0.91	22.48	10.57	1.06
15800	29.45	52.21	16.34	9.80	6.75	0.91	22.39	10.14	1.10
16000	29.33	52.34	16.62	9.92	6.97	0.91	23.27	10.68	0.97
16200	29.21	52.20	16.92	10.01	6.99	0.91	22.23	10.32	1.05
16400	29.11	51.76	17.28	10.15	6.76	0.91	24.32	10.36	1.00
16600	29.01	51.44	17.36	10.33	6.62	0.92	24.28	10.68	1.00
16800	28.91	50.91	17.33	10.51	6.33	0.92	22.32	9.96	1.06
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
21000	27.10	46.51	17.91	9.84	4.78	0.89	20.92	10.91	0.97
22000	25.78	46.48	14.19	8.46	5.19	0.87	22.57	11.60	1.00
23000	25.04	47.75	11.75	8.42	6.33	0.90	23.01	11.41	0.93

## 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
11200	25.98	59.69	9.68	14.01	23.02	1.06	18.44	7.61	2.32
11400	26.23	59.40	9.19	14.55	21.40	1.08	18.40	7.49	2.33
11600	26.50	61.66	8.78	15.19	26.73	1.10	18.41	7.76	2.34
11800	26.69	60.39	8.53	16.29	22.56	1.12	18.61	7.70	2.35
12000	26.90	60.85	8.28	17.42	23.16	1.13	17.77	7.97	2.40
12200	27.06	60.28	8.14	18.70	21.28	1.14	18.11	7.54	2.36
12400	27.21	62.17	8.07	19.92	26.06	1.15	17.56	7.60	2.40
12600	27.35	61.06	8.11	20.56	22.65	1.15	18.15	8.05	2.41
12800	27.42	60.12	8.16	20.26	20.19	1.14	18.93	7.82	2.40
13000	27.53	60.61	8.37	18.92	21.25	1.13	18.35	7.92	2.43
13200	27.57	58.41	8.75	17.37	16.56	1.11	19.15	8.29	2.31
13400	27.57	58.32	9.08	15.98	16.50	1.10	19.16	7.76	2.43
13600	27.59	57.33	9.46	14.77	14.76	1.08	18.93	8.26	2.44
13800	27.53	56.07	10.04	13.70	12.96	1.05	19.07	8.09	2.44
14000	27.47	55.28	10.61	12.90	11.99	1.03	18.99	8.00	2.39
14200	27.40	56.81	11.14	12.36	14.49	1.01	20.37	8.34	2.32
14400	27.33	54.49	11.76	11.93	11.28	1.00	19.96	8.35	2.34
14600	27.25	54.71	12.37	11.60	11.74	0.98	20.11	8.62	2.38
14800	27.13	53.18	12.94	11.37	10.03	0.97	20.12	8.47	2.31
15000	27.04	53.77	13.45	11.28	10.92	0.96	19.84	8.58	2.28
15200	26.95	53.18	14.12	11.27	10.39	0.96	20.22	8.30	2.22
15400	26.84	52.06	14.65	11.27	9.30	0.95	19.90	8.62	2.21
15600	26.74	51.84	15.10	11.34	9.23	0.95	20.11	8.75	2.18
15800	26.63	52.03	15.55	11.42	9.61	0.95	19.90	8.33	2.21
16000	26.52	50.76	16.04	11.61	8.47	0.95	20.83	8.72	2.22
16200	26.39	50.73	16.09	11.73	8.60	0.95	19.40	8.50	2.16
16400	26.29	51.20	16.10	11.84	9.19	0.95	21.11	8.56	2.15
16600	26.17	50.48	16.00	12.03	8.61	0.96	21.28	8.74	2.14
16800	26.06	50.94	15.82	12.19	9.22	0.96	20.56	8.16	2.10
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
21000	23.79	46.20	16.88	10.24	6.92	0.91	19.06	9.31	2.12
22000	22.70	46.97	14.28	9.39	8.26	0.91	20.55	10.11	2.11
23000	22.00	47.54	12.40	9.47	9.40	0.93	21.72	9.84	2.15

## 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
11200	25.65	60.04	9.50	14.03	24.78	1.07	18.06	7.11	2.40
11400	25.90	59.25	9.00	14.55	21.72	1.09	17.65	6.98	2.33
11600	26.17	62.09	8.59	15.19	28.99	1.11	17.87	7.25	2.37
11800	26.36	61.93	8.32	16.24	27.75	1.12	17.95	7.19	2.41
12000	26.57	60.81	8.07	17.37	23.73	1.14	17.52	7.47	2.46
12200	26.74	61.18	7.92	18.70	24.28	1.15	17.37	7.03	2.42
12400	26.89	59.31	7.85	20.00	19.27	1.15	16.86	7.10	2.43
12600	27.05	59.87	7.86	20.74	20.25	1.15	17.58	7.56	2.44
12800	27.11	60.68	7.91	20.61	22.09	1.15	18.30	7.34	2.47
13000	27.23	59.82	8.12	19.31	19.89	1.14	17.75	7.44	2.51
13200	27.29	56.46	8.48	17.75	13.55	1.12	18.52	7.82	2.39
13400	27.29	58.14	8.81	16.30	16.57	1.11	18.69	7.30	2.46
13600	27.32	56.47	9.18	15.06	13.70	1.09	18.23	7.80	2.47
13800	27.26	56.31	9.74	13.92	13.65	1.06	18.26	7.64	2.41
14000	27.21	54.43	10.31	13.10	11.15	1.04	18.31	7.55	2.39
14200	27.14	54.63	10.83	12.55	11.59	1.02	19.47	7.89	2.42
14400	27.08	55.35	11.45	12.08	12.75	1.01	18.98	8.04	2.36
14600	27.00	53.99	12.04	11.71	11.09	0.99	19.85	8.18	2.37
14800	26.88	53.97	12.61	11.49	11.29	0.98	19.64	8.03	2.35
15000	26.80	53.32	13.11	11.38	10.64	0.97	19.27	8.15	2.28
15200	26.70	52.70	13.75	11.36	10.10	0.96	19.67	7.86	2.33
15400	26.60	51.90	14.28	11.36	9.38	0.96	19.14	8.18	2.23
15600	26.50	51.99	14.73	11.40	9.65	0.95	19.56	8.30	2.19
15800	26.38	51.62	15.19	11.49	9.43	0.95	19.20	7.88	2.26
16000	26.27	50.97	15.64	11.67	8.93	0.95	19.73	8.28	2.23
16200	26.15	50.70	15.72	11.80	8.80	0.95	19.11	8.05	2.18
16400	26.04	49.95	15.76	11.91	8.20	0.96	20.05	8.12	2.12
16600	25.92	50.40	15.67	12.13	8.78	0.96	20.28	8.28	2.17
16800	25.80	49.96	15.50	12.28	8.49	0.96	19.67	7.70	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
21000	23.56	45.86	16.78	10.37	6.86	0.92	18.58	8.87	2.13
22000	22.50	46.44	14.36	9.51	7.99	0.91	19.61	9.55	2.17
23000	21.80	47.22	12.41	9.57	9.30	0.93	20.32	9.29	2.10



## 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
11200	26.26	60.31	9.83	14.00	24.01	1.06	19.13	8.07	2.32
11400	26.52	61.48	9.35	14.54	26.45	1.08	18.93	7.95	2.31
11600	26.78	60.38	8.95	15.21	22.47	1.10	18.95	8.21	2.28
11800	26.97	62.44	8.70	16.33	27.84	1.11	18.84	8.03	2.38
12000	27.17	60.87	8.48	17.46	22.65	1.12	18.67	8.42	2.36
12200	27.33	60.93	8.32	18.76	22.40	1.13	18.75	7.99	2.30
12400	27.47	60.31	8.28	19.91	20.59	1.14	18.35	8.05	2.34
12600	27.61	61.40	8.31	20.38	23.04	1.14	18.55	8.49	2.40
12800	27.67	60.66	8.37	19.97	21.04	1.13	19.54	8.14	2.45
13000	27.78	59.41	8.59	18.63	18.12	1.12	18.94	8.34	2.40
13200	27.81	58.82	8.98	17.07	17.00	1.11	20.04	8.71	2.36
13400	27.80	57.90	9.33	15.72	15.40	1.09	19.81	8.16	2.47
13600	27.82	57.07	9.72	14.58	14.04	1.07	19.36	8.66	2.41
13800	27.75	57.42	10.32	13.51	14.82	1.05	19.47	8.49	2.41
14000	27.68	56.75	10.90	12.77	13.93	1.02	19.55	8.39	2.39
14200	27.61	56.44	11.42	12.25	13.62	1.01	20.91	8.74	2.31
14400	27.54	55.69	12.05	11.83	12.67	0.99	20.67	8.74	2.35
14600	27.46	53.56	12.68	11.50	10.08	0.98	20.93	9.01	2.28
14800	27.34	53.08	13.23	11.29	9.72	0.97	20.90	8.85	2.30
15000	27.25	54.19	13.76	11.20	11.20	0.96	20.41	8.85	2.31
15200	27.15	53.57	14.43	11.20	10.63	0.95	20.60	8.70	2.26
15400	27.05	52.27	14.98	11.20	9.32	0.95	20.83	9.01	2.17
15600	26.95	52.55	15.44	11.26	9.79	0.95	20.44	9.15	2.13
15800	26.84	52.60	15.89	11.36	10.03	0.95	20.58	8.72	2.23
16000	26.73	51.64	16.37	11.52	9.16	0.95	21.41	9.11	2.22
16200	26.60	50.54	16.43	11.65	8.22	0.95	20.09	8.89	2.19
16400	26.50	51.55	16.42	11.76	9.36	0.95	21.58	8.95	2.07
16600	26.38	51.03	16.28	11.95	8.95	0.95	22.16	9.14	2.08
16800	26.27	50.00	16.06	12.10	8.08	0.96	21.00	8.56	2.14
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
21000	23.98	46.71	16.94	10.15	7.17	0.91	19.57	9.69	2.08
22000	22.87	47.27	14.20	9.30	8.35	0.91	20.77	10.48	2.03
23000	22.17	47.40	12.34	9.40	9.06	0.93	22.55	10.20	2.12