

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: Id =50mA, Vd = 4.1V, @ 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)
10.0	8.58	15.30	22.68	41.72	1.31	0.79	30.97	13.93	5.24
50.0	8.61	15.15	23.12	37.24	1.29	0.78	33.94	14.44	5.09
100.0	8.60	15.10	23.28	38.13	1.29	0.78	32.96	14.31	5.05
200.0	8.59	15.12	23.10	38.00	1.29	0.78	33.34	14.15	5.00
300.0	8.58	15.12	23.29	38.38	1.29	0.78	32.93	14.21	5.51
400.0	8.57	15.12	23.47	37.93	1.29	0.78	31.73	14.21	5.17
500.0	8.55	15.12	23.61	37.96	1.30	0.78	31.76	14.19	5.52
600.0	8.55	15.12	23.84	37.45	1.30	0.78	32.54	14.23	5.22
700.0	8.53	15.12	24.22	36.18	1.30	0.78	33.15	14.18	5.27
800.0	8.52	15.13	24.46	35.03	1.30	0.79	33.49	14.18	5.28
1000.0	8.50	15.12	24.96	32.47	1.30	0.79	31.54	14.08	5.26
1250.0	8.46	15.14	25.59	29.44	1.30	0.79	32.66	14.08	5.17
1500.0	8.41	15.14	25.99	27.03	1.31	0.79	31.14	14.09	5.16
1750.0	8.36	15.13	26.05	25.44	1.31	0.79	30.53	14.13	5.18
2000.0	8.30	15.17	25.78	24.13	1.32	0.79	30.73	14.06	5.25
2250.0	8.25	15.13	26.14	23.41	1.32	0.79	30.31	13.99	5.22
2500.0	8.19	15.16	25.98	22.75	1.33	0.80	29.18	13.89	5.14
2750.0	8.12	15.17	26.01	22.51	1.34	0.80	28.53	13.77	5.19
3000.0	8.06	15.17	26.35	22.24	1.34	0.80	27.87	13.55	5.23
3250.0	8.00	15.16	26.66	21.99	1.35	0.80	27.37	13.28	5.16
3500.0	7.89	15.20	26.29	21.18	1.36	0.81	26.82	12.95	5.28
3750.0	7.84	15.18	26.84	21.16	1.37	0.81	26.02	12.68	5.16
4000.0	7.75	15.16	27.26	19.97	1.37	0.81	25.54	12.43	5.12
4250.0	7.65	15.21	26.88	19.03	1.39	0.81	25.23	11.86	5.11
4500.0	7.60	15.19	27.45	18.34	1.39	0.81	24.71	11.65	5.22
4750.0	7.42	15.14	25.31	16.75	1.40	0.81	24.40	11.46	5.20
5000.0	7.20	15.34	24.07	16.26	1.44	0.82	23.74	11.05	5.24
5250.0	7.25	15.24	24.84	15.77	1.42	0.81	23.15	10.67	5.24
5500.0	7.17	15.29	24.59	15.28	1.44	0.81	23.25	10.72	5.09
5750.0	7.13	15.18	24.18	14.59	1.42	0.80	22.92	10.30	5.13
6000.0	7.05	15.39	25.70	14.82	1.46	0.82	22.32	9.99	5.15
6250.0	6.99	15.20	24.77	14.22	1.44	0.81	22.13	9.75	5.15
6500.0	6.86	15.22	25.51	14.26	1.46	0.81	21.83	9.57	5.14
6750.0	6.68	15.12	24.75	14.19	1.47	0.81	21.16	9.19	5.18
7000.0	6.88	15.26	30.14	14.70	1.46	0.82	21.22	9.08	5.24
7250.0	6.82	15.19	30.89	14.89	1.46	0.82	21.11	8.92	5.21
7500.0	6.85	15.11	29.99	14.80	1.45	0.82	20.30	8.47	5.20
7750.0	6.92	15.11	29.93	14.54	1.44	0.81	20.15	8.27	5.27
8000.0	6.98	15.07	27.54	14.02	1.42	0.80	20.34	8.03	5.17

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: Id =40mA, Vd = 3.93V, @ 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)
10.0	8.47	15.27	22.05	37.12	1.32	0.80	28.86	12.06	5.15
50.0	8.50	15.06	22.30	32.99	1.29	0.78	28.97	12.20	5.03
100.0	8.48	15.05	22.46	33.71	1.29	0.78	29.25	12.19	5.01
200.0	8.47	15.03	22.28	33.52	1.29	0.78	28.40	11.89	4.93
300.0	8.46	15.03	22.51	34.18	1.30	0.78	29.00	11.94	5.05
400.0	8.45	15.05	22.65	34.62	1.30	0.79	28.84	12.12	5.14
500.0	8.44	15.05	22.81	35.12	1.30	0.79	28.89	12.01	5.11
600.0	8.43	15.04	23.03	35.93	1.30	0.79	29.24	12.11	5.17
700.0	8.42	15.05	23.40	36.04	1.30	0.79	28.89	12.13	5.15
800.0	8.41	15.04	23.62	36.22	1.30	0.79	29.66	12.15	5.10
1000.0	8.39	15.05	24.16	34.91	1.30	0.79	28.06	11.97	5.17
1250.0	8.35	15.05	24.87	31.61	1.31	0.79	29.25	11.98	5.14
1500.0	8.31	15.06	25.53	28.76	1.31	0.79	29.25	12.09	5.09
1750.0	8.26	15.05	25.75	26.86	1.31	0.79	28.63	12.20	5.10
2000.0	8.21	15.09	25.74	25.31	1.32	0.80	28.67	12.11	5.15
2250.0	8.16	15.05	26.14	24.38	1.32	0.79	27.99	12.11	5.13
2500.0	8.11	15.08	26.19	23.63	1.33	0.80	27.80	12.11	5.11
2750.0	8.04	15.09	26.26	23.22	1.34	0.80	27.31	12.18	5.11
3000.0	7.99	15.08	26.60	22.89	1.34	0.80	26.75	12.21	5.04
3250.0	7.92	15.08	26.98	22.54	1.35	0.80	26.22	12.07	5.02
3500.0	7.83	15.11	26.85	21.68	1.36	0.81	25.76	11.84	5.14
3750.0	7.78	15.11	27.51	21.59	1.37	0.81	25.17	11.71	5.09
4000.0	7.69	15.08	28.32	20.35	1.37	0.81	24.59	11.41	4.97
4250.0	7.59	15.10	28.23	19.34	1.38	0.81	24.15	10.93	5.02
4500.0	7.54	15.11	29.11	18.60	1.39	0.81	23.70	10.72	5.07
4750.0	7.37	15.06	26.76	16.98	1.40	0.81	23.48	10.53	5.07
5000.0	7.16	15.26	25.28	16.44	1.44	0.82	22.81	10.11	5.12
5250.0	7.21	15.17	26.16	15.93	1.42	0.81	22.30	9.81	5.05
5500.0	7.13	15.21	25.79	15.42	1.43	0.81	22.37	9.80	4.94
5750.0	7.09	15.10	25.01	14.67	1.42	0.80	21.93	9.37	4.97
6000.0	7.02	15.33	26.63	14.92	1.46	0.82	21.46	9.11	5.04
6250.0	6.96	15.14	25.28	14.28	1.43	0.81	21.24	8.89	5.04
6500.0	6.82	15.16	25.87	14.33	1.45	0.81	20.95	8.66	5.00
6750.0	6.64	15.06	25.00	14.23	1.46	0.82	20.25	8.35	5.06
7000.0	6.85	15.20	29.90	14.75	1.46	0.82	20.29	8.22	4.96
7250.0	6.78	15.14	30.71	14.95	1.46	0.82	20.15	8.02	5.10
7500.0	6.81	15.06	29.36	14.84	1.44	0.82	19.35	7.57	5.04
7750.0	6.89	15.06	28.79	14.54	1.43	0.81	19.23	7.38	5.13
8000.0	6.94	15.02	26.37	14.04	1.41	0.81	19.24	7.14	5.02

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: Id =60mA, Vd = 4.29V, @ 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)
10.0	8.67	14.85	23.78	37.72	1.26	0.76	28.75	14.45	5.28
50.0	8.69	15.15	23.74	40.99	1.29	0.78	37.19	15.67	5.18
100.0	8.67	15.17	23.80	43.33	1.29	0.78	36.27	15.46	5.15
200.0	8.66	15.15	23.67	41.48	1.29	0.78	35.19	15.42	5.09
300.0	8.65	15.16	23.90	40.40	1.29	0.78	33.55	15.48	5.24
400.0	8.64	15.16	24.05	39.68	1.29	0.78	34.96	15.37	5.27
500.0	8.63	15.15	24.17	38.40	1.29	0.78	33.61	15.36	5.26
600.0	8.62	15.15	24.42	36.66	1.29	0.78	33.99	15.35	5.30
700.0	8.61	15.16	24.77	34.87	1.29	0.78	35.20	15.26	5.28
800.0	8.59	15.17	25.01	33.39	1.30	0.78	35.25	15.23	5.26
1000.0	8.56	15.17	25.38	31.00	1.30	0.79	33.20	15.21	5.29
1250.0	8.53	15.17	25.99	28.19	1.30	0.79	31.92	15.19	5.25
1500.0	8.48	15.18	26.31	26.16	1.31	0.79	32.85	15.11	5.25
1750.0	8.42	15.18	26.13	24.64	1.31	0.79	32.01	15.06	5.24
2000.0	8.36	15.20	25.75	23.50	1.32	0.79	32.35	14.96	5.28
2250.0	8.31	15.17	25.94	22.85	1.32	0.79	30.79	14.84	5.31
2500.0	8.25	15.20	25.83	22.27	1.33	0.79	29.74	14.70	5.27
2750.0	8.17	15.22	25.76	22.07	1.34	0.80	29.45	14.46	5.25
3000.0	8.11	15.19	26.12	21.86	1.34	0.80	28.63	14.22	5.20
3250.0	8.04	15.20	26.29	21.64	1.35	0.80	28.08	13.93	5.20
3500.0	7.94	15.23	25.92	20.90	1.36	0.81	27.35	13.66	5.30
3750.0	7.88	15.23	26.39	20.83	1.37	0.81	26.84	13.36	5.29
4000.0	7.79	15.19	26.58	19.75	1.37	0.81	26.12	13.14	5.22
4250.0	7.68	15.22	26.04	18.83	1.38	0.81	25.70	12.63	5.18
4500.0	7.63	15.22	26.39	18.15	1.39	0.81	25.31	12.46	5.24
4750.0	7.45	15.16	24.42	16.63	1.40	0.81	25.12	12.28	5.28
5000.0	7.23	15.36	23.28	16.10	1.44	0.82	24.51	11.91	5.31
5250.0	7.28	15.28	23.97	15.67	1.43	0.81	23.83	11.48	5.23
5500.0	7.20	15.33	23.72	15.19	1.44	0.81	24.05	11.58	5.12
5750.0	7.16	15.21	23.51	14.52	1.42	0.80	23.61	11.11	5.20
6000.0	7.08	15.42	24.77	14.76	1.46	0.82	23.10	10.83	5.27
6250.0	7.03	15.25	24.27	14.21	1.44	0.81	22.89	10.59	5.26
6500.0	6.88	15.24	24.91	14.23	1.46	0.81	22.55	10.41	5.27
6750.0	6.71	15.14	24.35	14.15	1.46	0.81	21.88	10.03	5.34
7000.0	6.91	15.29	29.53	14.71	1.46	0.82	22.01	9.96	5.24
7250.0	6.85	15.23	29.97	14.92	1.46	0.82	21.76	9.79	5.33
7500.0	6.88	15.12	29.84	14.85	1.45	0.81	21.11	9.32	5.31
7750.0	6.96	15.12	30.04	14.58	1.43	0.81	20.92	9.13	5.41
8000.0	7.02	15.07	28.39	14.11	1.42	0.80	20.99	8.88	5.36

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: Id =50mA, Vd = 4.29V, @ 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)
10.0	8.68	14.93	23.09	35.92	1.27	0.77	30.16	14.03	4.48
50.0	8.69	15.18	22.64	35.59	1.29	0.78	36.25	14.56	4.37
100.0	8.67	15.16	22.06	33.68	1.29	0.78	33.39	14.44	4.32
200.0	8.67	15.13	21.80	32.62	1.28	0.78	34.68	14.23	4.30
300.0	8.66	15.11	23.07	36.78	1.28	0.78	32.55	14.33	4.44
400.0	8.66	15.12	23.69	39.39	1.29	0.78	33.05	14.40	4.50
500.0	8.65	15.13	23.84	38.40	1.29	0.78	32.95	14.37	4.50
600.0	8.65	15.11	24.29	37.04	1.28	0.78	33.75	14.41	4.52
700.0	8.64	15.11	24.36	35.71	1.29	0.78	33.43	14.40	4.50
800.0	8.63	15.11	24.06	35.21	1.29	0.78	33.99	14.39	4.46
1000.0	8.61	15.09	24.10	32.66	1.29	0.78	32.39	14.27	4.46
1250.0	8.58	15.09	25.11	28.55	1.29	0.78	33.85	14.29	4.46
1500.0	8.54	15.09	25.73	25.96	1.29	0.78	32.98	14.35	4.45
1750.0	8.50	15.08	25.73	24.39	1.29	0.78	32.51	14.42	4.46
2000.0	8.45	15.09	25.61	23.14	1.30	0.78	33.92	14.38	4.47
2250.0	8.39	15.06	25.64	22.09	1.30	0.78	31.07	14.35	4.47
2500.0	8.34	15.07	25.57	21.55	1.31	0.78	30.00	14.30	4.37
2750.0	8.28	15.07	25.88	22.33	1.31	0.79	29.99	14.26	4.45
3000.0	8.23	15.04	26.05	22.61	1.31	0.79	28.85	14.17	4.40
3250.0	8.16	15.03	25.98	22.00	1.32	0.79	28.45	13.95	4.32
3500.0	8.07	15.06	25.66	21.13	1.33	0.79	28.40	13.68	4.40
3750.0	8.02	15.04	26.12	21.34	1.33	0.80	27.48	13.42	4.39
4000.0	7.93	15.01	26.08	20.21	1.34	0.80	26.82	13.15	4.32
4250.0	7.83	15.02	25.39	18.94	1.35	0.80	26.55	12.65	4.33
4500.0	7.78	15.01	25.60	18.22	1.35	0.80	25.81	12.41	4.40
4750.0	7.57	15.00	23.12	16.47	1.36	0.79	25.45	12.18	4.39
5000.0	7.39	15.20	22.02	15.90	1.40	0.81	25.18	11.90	4.47
5250.0	7.46	15.03	22.35	15.09	1.37	0.79	24.47	11.50	4.39
5500.0	7.37	15.06	22.54	14.69	1.38	0.79	24.23	11.39	4.23
5750.0	7.27	15.05	22.44	14.12	1.39	0.79	24.13	11.08	4.32
6000.0	7.23	15.22	23.26	14.41	1.42	0.80	23.78	10.74	4.37
6250.0	7.11	14.96	22.41	13.61	1.39	0.79	23.47	10.48	4.31
6500.0	7.02	14.88	23.18	13.53	1.39	0.78	23.00	10.32	4.34
6750.0	6.91	14.82	23.03	13.79	1.40	0.79	22.59	10.11	4.26
7000.0	7.02	14.97	26.24	14.32	1.41	0.80	22.45	9.96	4.33
7250.0	7.04	14.94	27.66	14.68	1.41	0.80	22.36	9.84	4.29
7500.0	7.05	14.94	27.23	15.10	1.41	0.80	21.70	9.41	4.35
7750.0	7.17	14.88	29.37	14.94	1.39	0.79	21.78	9.28	4.40
8000.0	7.22	14.84	29.21	14.31	1.37	0.79	21.80	9.08	4.33

MMIC Amplifier

ERA-9SM+

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: Id =40mA, Vd = 4.11V, @ 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)
10.0	8.80	16.52	26.59	22.07	1.41	0.83	28.46	12.07	4.46
50.0	8.56	15.14	21.99	32.88	1.30	0.78	30.15	12.17	4.29
100.0	8.55	15.07	21.44	31.23	1.29	0.78	29.62	11.96	4.28
200.0	8.54	15.05	21.20	30.55	1.29	0.78	29.38	11.69	4.25
300.0	8.54	15.05	22.37	34.54	1.29	0.78	29.57	11.79	4.32
400.0	8.53	15.04	23.01	36.81	1.29	0.78	30.59	12.00	4.42
500.0	8.53	15.03	23.04	36.48	1.29	0.78	29.23	11.90	4.38
600.0	8.53	15.03	23.58	36.74	1.29	0.78	29.97	12.01	4.46
700.0	8.52	15.02	23.66	36.36	1.29	0.78	30.31	12.03	4.42
800.0	8.51	15.02	23.39	35.99	1.29	0.78	30.48	12.06	4.37
1000.0	8.49	15.02	23.56	34.05	1.29	0.78	28.96	11.84	4.45
1250.0	8.46	15.02	24.59	30.11	1.29	0.78	30.09	11.91	4.39
1500.0	8.43	15.02	25.26	27.30	1.29	0.78	29.66	12.05	4.39
1750.0	8.39	15.00	25.47	25.41	1.30	0.78	29.47	12.17	4.34
2000.0	8.34	15.01	25.57	24.01	1.30	0.78	29.26	12.09	4.40
2250.0	8.29	15.00	25.74	22.80	1.30	0.78	29.39	12.15	4.37
2500.0	8.24	15.01	25.77	22.19	1.31	0.79	28.51	12.18	4.34
2750.0	8.18	14.99	26.04	22.96	1.32	0.79	28.32	12.24	4.39
3000.0	8.13	14.98	26.31	23.31	1.32	0.79	28.24	12.45	4.35
3250.0	8.07	14.95	26.49	22.61	1.32	0.79	27.44	12.42	4.25
3500.0	7.98	14.98	26.33	21.65	1.33	0.80	27.17	12.26	4.37
3750.0	7.93	14.97	26.81	21.78	1.34	0.80	26.58	12.26	4.34
4000.0	7.84	14.94	26.91	20.58	1.34	0.80	25.99	12.05	4.23
4250.0	7.75	14.97	26.27	19.24	1.35	0.80	25.40	11.63	4.22
4500.0	7.70	14.95	26.81	18.46	1.35	0.80	25.11	11.38	4.28
4750.0	7.50	14.94	24.16	16.75	1.37	0.80	24.76	11.21	4.29
5000.0	7.33	15.13	22.85	16.24	1.40	0.81	24.41	10.92	4.35
5250.0	7.39	14.98	23.12	15.29	1.38	0.79	23.71	10.59	4.26
5500.0	7.30	14.99	23.37	14.90	1.38	0.79	23.48	10.50	4.17
5750.0	7.20	14.98	23.02	14.32	1.39	0.79	23.21	10.20	4.20
6000.0	7.17	15.15	24.14	14.59	1.42	0.80	22.75	9.86	4.24
6250.0	7.07	14.92	23.34	13.78	1.39	0.79	22.53	9.61	4.30
6500.0	6.96	14.83	23.77	13.52	1.39	0.79	22.16	9.45	4.26
6750.0	6.82	14.78	23.36	13.86	1.41	0.79	21.74	9.21	4.24
7000.0	6.95	14.96	27.48	14.41	1.42	0.80	21.60	9.12	4.27
7250.0	6.96	14.85	28.90	14.47	1.40	0.80	21.39	8.94	4.32
7500.0	7.04	14.87	30.30	14.91	1.40	0.80	20.81	8.60	4.29
7750.0	7.10	14.81	30.90	14.66	1.38	0.79	20.79	8.41	4.33
8000.0	7.16	14.82	29.79	14.24	1.37	0.79	20.80	8.17	4.28

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: Id =60mA, Vd = 4.46V, @ 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)
10.0	8.75	15.35	23.97	51.03	1.30	0.79	30.72	14.64	4.54
50.0	8.75	15.19	22.82	38.43	1.28	0.78	37.24	15.94	4.45
100.0	8.74	15.19	22.46	35.78	1.28	0.78	39.38	15.76	4.41
200.0	8.73	15.17	22.18	34.32	1.28	0.78	33.37	15.69	4.40
300.0	8.72	15.16	23.60	37.79	1.28	0.78	38.54	15.77	4.49
400.0	8.72	15.16	24.19	39.29	1.28	0.78	35.42	15.70	4.55
500.0	8.71	15.14	24.31	37.50	1.28	0.78	34.50	15.70	4.55
600.0	8.71	15.14	24.80	35.59	1.28	0.78	34.14	15.70	4.58
700.0	8.70	15.15	24.86	34.62	1.28	0.78	35.76	15.65	4.59
800.0	8.69	15.16	24.54	33.89	1.28	0.78	35.97	15.63	4.50
1000.0	8.67	15.13	24.47	31.56	1.28	0.78	34.62	15.58	4.57
1250.0	8.64	15.13	25.37	27.61	1.29	0.78	33.81	15.58	4.54
1500.0	8.59	15.12	25.90	25.23	1.29	0.78	32.43	15.55	4.52
1750.0	8.55	15.12	25.72	23.77	1.29	0.78	32.83	15.56	4.48
2000.0	8.49	15.12	25.48	22.58	1.30	0.78	33.67	15.48	4.50
2250.0	8.44	15.08	25.42	21.65	1.30	0.78	31.88	15.37	4.51
2500.0	8.39	15.10	25.33	21.19	1.30	0.78	31.45	15.29	4.49
2750.0	8.32	15.11	25.66	21.96	1.31	0.79	31.07	15.13	4.54
3000.0	8.27	15.07	25.88	22.21	1.31	0.79	30.00	14.93	4.45
3250.0	8.20	15.07	25.71	21.69	1.32	0.79	29.65	14.65	4.43
3500.0	8.11	15.10	25.29	20.85	1.33	0.79	28.55	14.38	4.55
3750.0	8.05	15.08	25.77	21.05	1.34	0.80	27.80	14.03	4.50
4000.0	7.96	15.06	25.57	19.99	1.34	0.80	27.52	13.85	4.43
4250.0	7.86	15.07	24.73	18.75	1.35	0.80	27.04	13.40	4.45
4500.0	7.80	15.06	24.83	18.06	1.35	0.80	26.68	13.12	4.43
4750.0	7.60	15.04	22.48	16.31	1.36	0.80	26.19	12.93	4.51
5000.0	7.41	15.24	21.46	15.80	1.40	0.81	25.92	12.71	4.63
5250.0	7.48	15.09	21.81	15.04	1.38	0.79	25.18	12.23	4.40
5500.0	7.39	15.10	21.99	14.63	1.39	0.79	25.02	12.14	4.39
5750.0	7.29	15.09	21.82	14.09	1.39	0.79	25.08	11.83	4.38
6000.0	7.24	15.25	22.61	14.38	1.42	0.80	24.45	11.52	4.50
6250.0	7.13	15.01	21.93	13.68	1.40	0.79	24.06	11.26	4.40
6500.0	7.04	14.92	22.65	13.53	1.40	0.79	23.76	11.08	4.37
6750.0	6.94	14.86	22.76	13.82	1.40	0.79	23.24	10.84	4.44
7000.0	7.04	14.98	25.40	14.34	1.41	0.80	23.26	10.76	4.49
7250.0	7.06	14.98	26.42	14.76	1.41	0.80	23.04	10.61	4.45
7500.0	7.04	14.90	25.71	15.02	1.40	0.80	22.56	10.21	4.48
7750.0	7.17	14.89	27.48	14.95	1.39	0.79	22.46	10.09	4.52
8000.0	7.21	14.86	27.97	14.36	1.38	0.79	22.53	9.88	4.48

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: Id =50mA, Vd = 3.95V, @ 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)
10.0	8.53	15.02	22.94	35.86	1.29	0.78	28.81	13.64	5.72
50.0	8.55	15.13	23.48	37.79	1.30	0.78	33.71	14.27	5.62
100.0	8.53	15.08	23.92	40.81	1.29	0.78	32.39	14.16	5.60
200.0	8.52	15.08	24.59	47.94	1.30	0.78	32.39	14.05	5.54
300.0	8.51	15.06	24.60	46.58	1.29	0.78	31.66	14.11	5.74
400.0	8.50	15.08	24.27	41.89	1.30	0.78	31.11	14.05	5.74
500.0	8.48	15.09	23.92	39.81	1.30	0.79	31.83	14.02	5.72
600.0	8.47	15.09	24.04	40.03	1.30	0.79	32.97	14.03	5.78
700.0	8.46	15.09	24.16	39.59	1.30	0.79	31.79	13.97	5.78
800.0	8.45	15.10	24.21	38.40	1.30	0.79	32.43	13.95	5.68
1000.0	8.42	15.10	24.47	35.61	1.31	0.79	30.75	13.87	5.72
1250.0	8.38	15.10	24.80	32.08	1.31	0.79	30.55	13.86	5.75
1500.0	8.33	15.11	25.38	29.13	1.31	0.79	29.83	13.85	5.75
1750.0	8.28	15.13	25.70	26.79	1.32	0.80	30.21	13.85	5.72
2000.0	8.22	15.16	25.78	24.79	1.33	0.80	30.23	13.76	5.75
2250.0	8.17	15.13	26.25	23.71	1.33	0.80	28.89	13.66	5.78
2500.0	8.11	15.15	26.31	22.81	1.34	0.80	27.96	13.50	5.75
2750.0	8.03	15.20	26.18	22.39	1.35	0.80	28.04	13.29	5.73
3000.0	7.98	15.17	26.41	22.24	1.35	0.81	27.61	13.03	5.69
3250.0	7.91	15.17	26.78	21.98	1.36	0.81	26.38	12.72	5.66
3500.0	7.81	15.23	26.74	21.15	1.38	0.81	25.82	12.40	5.73
3750.0	7.76	15.22	27.63	21.12	1.38	0.81	25.12	12.11	5.70
4000.0	7.66	15.21	28.21	19.98	1.39	0.81	24.83	11.83	5.69
4250.0	7.57	15.23	28.48	18.98	1.40	0.82	24.24	11.27	5.57
4500.0	7.50	15.22	29.06	18.06	1.40	0.81	23.72	11.11	5.69
4750.0	7.38	15.15	27.29	16.55	1.40	0.81	23.57	10.95	5.67
5000.0	7.14	15.32	24.96	15.84	1.45	0.82	22.78	10.45	5.72
5250.0	7.14	15.39	26.04	15.60	1.45	0.82	22.29	10.13	5.70
5500.0	7.03	15.36	24.85	14.89	1.46	0.82	22.44	10.12	5.64
5750.0	7.09	15.26	24.88	14.44	1.43	0.81	22.01	9.67	5.60
6000.0	6.83	15.46	25.11	14.50	1.49	0.82	21.38	9.36	5.73
6250.0	6.89	15.33	24.95	14.35	1.46	0.82	21.20	9.19	5.69
6500.0	6.65	15.09	23.23	13.75	1.46	0.81	21.02	8.97	5.72
6750.0	6.61	15.10	24.03	14.16	1.46	0.82	20.29	8.62	5.65
7000.0	6.67	15.19	26.50	14.72	1.47	0.83	20.34	8.44	5.69
7250.0	6.81	15.24	25.79	15.17	1.46	0.83	20.29	8.28	5.64
7500.0	6.79	15.21	27.81	15.25	1.46	0.83	19.21	7.74	5.73
7750.0	6.69	14.99	26.20	14.43	1.44	0.82	19.09	7.56	5.86
8000.0	6.80	15.05	25.24	14.07	1.43	0.81	18.92	7.21	5.78

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: Id =40mA, Vd = 3.78V, @ 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)
10.0	8.42	15.06	22.55	33.19	1.30	0.79	28.22	11.70	5.62
50.0	8.41	14.96	22.41	32.12	1.29	0.78	30.39	12.38	5.57
100.0	8.40	14.98	22.92	34.75	1.30	0.78	28.98	12.24	5.56
200.0	8.39	15.00	23.40	39.04	1.30	0.79	28.19	12.02	5.48
300.0	8.38	14.99	23.56	39.27	1.30	0.79	28.19	12.05	5.65
400.0	8.37	15.00	23.33	36.40	1.30	0.79	28.97	12.17	5.66
500.0	8.35	15.00	22.98	35.49	1.30	0.79	28.43	12.07	5.70
600.0	8.34	14.99	23.03	36.78	1.30	0.79	28.34	12.16	5.72
700.0	8.33	15.01	23.22	37.83	1.31	0.79	29.52	12.14	5.71
800.0	8.32	15.02	23.33	38.79	1.31	0.79	28.95	12.14	5.64
1000.0	8.30	15.01	23.62	38.18	1.31	0.79	27.68	11.98	5.68
1250.0	8.26	15.03	24.11	35.46	1.31	0.79	28.42	11.97	5.68
1500.0	8.22	15.03	24.85	31.50	1.32	0.80	28.51	12.06	5.67
1750.0	8.17	15.04	25.32	28.57	1.32	0.80	28.41	12.17	5.64
2000.0	8.12	15.09	25.60	26.07	1.33	0.80	28.10	12.09	5.72
2250.0	8.07	15.07	26.15	24.83	1.34	0.80	27.25	12.08	5.72
2500.0	8.01	15.08	26.46	23.73	1.34	0.80	27.16	12.01	5.65
2750.0	7.94	15.13	26.33	23.19	1.35	0.81	26.39	12.02	5.66
3000.0	7.88	15.09	26.51	22.99	1.36	0.81	26.11	11.90	5.67
3250.0	7.83	15.10	26.92	22.62	1.36	0.81	25.26	11.69	5.53
3500.0	7.73	15.11	27.23	21.68	1.37	0.81	24.81	11.38	5.69
3750.0	7.69	15.12	28.11	21.59	1.38	0.81	24.05	11.18	5.56
4000.0	7.59	15.13	29.12	20.42	1.39	0.82	23.72	10.87	5.57
4250.0	7.50	15.14	29.87	19.36	1.40	0.82	23.12	10.38	5.51
4500.0	7.44	15.13	31.17	18.29	1.40	0.81	22.66	10.15	5.54
4750.0	7.32	15.06	29.08	16.74	1.40	0.81	22.42	9.97	5.60
5000.0	7.08	15.25	26.29	16.09	1.45	0.82	21.69	9.50	5.62
5250.0	7.07	15.30	27.14	15.72	1.45	0.82	21.21	9.20	5.62
5500.0	6.96	15.28	25.75	14.96	1.46	0.82	21.38	9.22	5.54
5750.0	7.02	15.22	25.48	14.58	1.44	0.81	20.90	8.73	5.51
6000.0	6.81	15.37	25.72	14.63	1.48	0.82	20.39	8.48	5.61
6250.0	6.81	15.24	24.68	14.36	1.46	0.82	20.36	8.23	5.59
6500.0	6.61	15.03	23.14	13.84	1.45	0.82	19.99	8.07	5.57
6750.0	6.57	15.06	23.76	14.26	1.46	0.82	19.29	7.69	5.53
7000.0	6.60	15.10	25.41	14.72	1.47	0.83	19.31	7.54	5.60
7250.0	6.72	15.19	25.38	15.27	1.47	0.83	19.18	7.31	5.53
7500.0	6.67	15.13	26.05	15.10	1.47	0.83	18.25	6.83	5.60
7750.0	6.62	14.94	24.45	14.33	1.44	0.82	18.11	6.66	5.69
8000.0	6.71	14.96	23.88	14.05	1.43	0.82	17.96	6.30	5.68

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: Id =60mA, Vd = 4.12V, @ 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)
10.0	8.59	15.08	23.19	39.67	1.29	0.78	30.02	13.74	5.74
50.0	8.63	15.15	23.88	42.96	1.29	0.78	33.78	15.35	5.70
100.0	8.62	15.12	24.70	44.81	1.29	0.78	34.10	15.06	5.66
200.0	8.60	15.13	25.33	43.57	1.29	0.78	33.60	15.10	5.63
300.0	8.59	15.12	25.31	43.74	1.29	0.78	32.67	15.15	5.80
400.0	8.58	15.15	24.93	42.57	1.30	0.78	33.82	14.97	5.80
500.0	8.56	15.13	24.62	39.66	1.30	0.78	37.32	15.00	5.82
600.0	8.55	15.12	24.64	38.86	1.30	0.78	33.86	14.95	5.85
700.0	8.54	15.14	24.82	37.54	1.30	0.78	33.51	14.85	5.81
800.0	8.52	15.14	24.83	36.26	1.30	0.79	32.85	14.80	5.79
1000.0	8.50	15.15	24.99	33.49	1.30	0.79	33.33	14.79	5.83
1250.0	8.46	15.16	25.31	30.43	1.31	0.79	31.55	14.79	5.83
1500.0	8.41	15.17	25.77	27.80	1.31	0.79	31.82	14.64	5.82
1750.0	8.35	15.15	25.88	25.82	1.32	0.79	31.37	14.53	5.78
2000.0	8.29	15.22	25.69	24.03	1.33	0.80	30.43	14.44	5.84
2250.0	8.23	15.17	26.08	23.07	1.33	0.80	29.74	14.30	5.88
2500.0	8.17	15.23	26.12	22.30	1.34	0.80	29.17	14.12	5.80
2750.0	8.09	15.23	26.01	21.90	1.35	0.80	28.58	13.86	5.78
3000.0	8.03	15.22	26.26	21.85	1.35	0.80	28.36	13.60	5.78
3250.0	7.97	15.23	26.52	21.59	1.36	0.81	27.10	13.32	5.69
3500.0	7.86	15.26	26.37	20.89	1.37	0.81	26.68	13.02	5.86
3750.0	7.81	15.28	27.14	20.84	1.38	0.81	25.81	12.76	5.76
4000.0	7.72	15.27	27.55	19.74	1.39	0.81	25.49	12.51	5.78
4250.0	7.62	15.28	27.49	18.79	1.40	0.82	24.93	12.03	5.73
4500.0	7.55	15.27	27.91	17.94	1.40	0.81	24.48	11.86	5.86
4750.0	7.43	15.20	26.13	16.44	1.40	0.81	24.32	11.70	5.76
5000.0	7.18	15.36	24.05	15.69	1.45	0.82	23.63	11.22	5.81
5250.0	7.19	15.41	25.13	15.54	1.45	0.82	23.05	10.90	5.77
5500.0	7.08	15.41	24.28	14.90	1.46	0.82	23.26	10.91	5.71
5750.0	7.13	15.31	24.22	14.40	1.44	0.81	22.79	10.45	5.70
6000.0	6.88	15.54	24.95	14.57	1.50	0.82	22.16	10.17	5.86
6250.0	6.96	15.38	24.84	14.35	1.46	0.82	22.05	9.97	5.81
6500.0	6.69	15.14	23.09	13.75	1.46	0.81	21.78	9.75	5.81
6750.0	6.64	15.14	24.13	14.14	1.47	0.82	21.14	9.39	5.83
7000.0	6.70	15.23	27.30	14.72	1.48	0.83	21.13	9.28	5.89
7250.0	6.80	15.21	25.96	14.94	1.46	0.83	21.00	9.06	5.81
7500.0	6.83	15.24	29.10	15.30	1.46	0.83	20.04	8.52	5.85
7750.0	6.73	14.99	28.10	14.48	1.44	0.81	19.85	8.32	6.02
8000.0	6.86	15.08	26.28	14.14	1.43	0.81	19.82	8.07	5.96