

Typical Performance Data

Note: The following data was taken on the Mini-Circuits Characterization Test Board MB-225-6C+ (Figure 2).

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +4.76V$, $I_{DD} = 56mA$ @ Temperature = $+25^{\circ}C$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	3dB Comp. Output	Noise Figure	IP-3 Output
					K	Measure				
(MHz)	(dB)	(dB)	(dB)	(dB)			(dBm)	(dBm)	(dB)	(dBm)
10.00	13.04	18.8	22.0	34.7	1.2	0.7	16.6	17.1	4.1	32.5
50.00	13.08	18.7	21.7	36.2	1.2	0.7	16.2	16.9	4.0	31.7
100.0	13.06	18.7	21.5	35.2	1.2	0.7	16.2	16.9	4.2	33.1
200.0	13.05	18.7	21.4	35.0	1.2	0.7	16.2	16.9	4.1	32.5
300.0	13.04	18.7	21.5	35.9	1.2	0.7	16.1	16.9	4.0	33.4
400.0	13.02	18.7	21.6	35.0	1.2	0.7	16.1	16.9	4.0	33.6
500.0	13.01	18.7	21.6	36.2	1.2	0.7	16.3	17.0	4.1	33.7
600.0	12.99	18.7	21.7	37.0	1.2	0.7	16.3	17.1	4.0	32.6
700.0	12.97	18.7	21.7	36.7	1.2	0.7	16.0	17.0	4.0	33.0
800.0	12.96	18.7	21.7	35.9	1.2	0.7	16.0	16.9	4.1	33.2
900.0	12.95	18.7	21.7	36.5	1.2	0.7	16.0	16.9	4.1	32.2
1000.0	12.93	18.7	21.7	36.3	1.2	0.7	16.1	16.9	4.1	34.0
1100.0	12.92	18.7	21.5	35.7	1.2	0.7	16.0	16.8	4.1	32.6
1200.0	12.91	18.7	21.3	35.6	1.2	0.8	15.9	16.7	4.1	32.0
1300.0	12.89	18.7	21.2	35.0	1.2	0.8	15.9	16.7	4.1	31.8
1400.0	12.89	18.7	21.1	34.5	1.2	0.8	16.1	16.8	4.1	33.2
1500.0	12.87	18.7	20.9	33.6	1.2	0.8	15.9	16.7	4.1	31.7
1600.0	12.86	18.7	20.7	32.9	1.2	0.8	15.9	16.6	4.2	31.7
1700.0	12.85	18.7	20.5	32.5	1.2	0.8	15.6	16.5	4.1	31.3
1800.0	12.83	18.7	20.3	31.4	1.2	0.8	15.9	16.6	4.1	31.8
1900.0	12.82	18.7	20.0	30.8	1.2	0.8	15.9	16.6	4.2	30.8
2000.0	12.81	18.8	19.7	30.3	1.2	0.8	16.0	16.6	4.2	30.3
2100.0	12.80	18.8	19.4	29.8	1.2	0.8	15.8	16.5	4.2	31.0
2200.0	12.78	18.7	19.2	28.9	1.2	0.8	15.8	16.5	4.1	31.4
2300.0	12.77	18.8	18.9	28.4	1.2	0.8	15.8	16.5	4.2	30.6
2400.0	12.75	18.8	18.6	28.2	1.2	0.8	15.7	16.4	4.2	30.4
2500.0	12.74	18.8	18.4	27.7	1.2	0.8	15.6	16.4	4.2	29.5
2600.0	12.72	18.8	18.2	26.7	1.2	0.8	15.5	16.3	4.3	29.2
2700.0	12.70	18.8	18.0	26.3	1.2	0.8	15.5	16.2	4.3	29.3
2800.0	12.69	18.8	17.7	26.0	1.2	0.8	15.4	16.2	4.3	29.2
2900.0	12.67	18.8	17.5	25.6	1.2	0.8	15.3	16.2	4.3	28.9
3000.0	12.65	18.8	17.2	25.0	1.2	0.8	15.2	16.1	4.3	28.5
3100.0	12.62	18.8	16.9	24.6	1.2	0.8	15.0	16.0	4.3	28.2
3200.0	12.60	18.8	16.6	24.4	1.2	0.8	15.0	15.9	4.3	28.0
3300.0	12.57	18.8	16.3	24.0	1.2	0.8	14.8	15.8	4.4	27.9
3400.0	12.55	18.8	16.2	23.4	1.2	0.8	14.7	15.7	4.3	27.5
3500.0	12.52	18.8	15.9	23.1	1.2	0.8	14.6	15.7	4.4	27.7
3600.0	12.49	18.8	15.6	23.1	1.2	0.8	14.4	15.6	4.3	26.8
3700.0	12.46	18.8	15.4	22.9	1.2	0.8	14.3	15.4	4.4	26.9
3800.0	12.43	18.8	15.2	22.5	1.2	0.8	14.2	15.3	4.4	26.1
3900.0	12.40	18.8	14.9	22.2	1.2	0.8	14.0	15.1	4.4	25.4
4000.0	12.36	18.8	14.7	22.2	1.3	0.8	13.8	15.1	4.4	25.8
4100.0	12.32	18.8	14.5	21.9	1.3	0.8	13.6	15.0	4.4	26.0
4200.0	12.28	18.8	14.3	21.5	1.3	0.8	13.5	14.9	4.4	26.1
4300.0	12.24	18.8	14.1	21.3	1.3	0.8	13.2	14.6	4.4	25.0
4400.0	12.20	18.8	13.9	21.2	1.3	0.8	13.0	14.4	4.4	26.3
4500.0	12.16	18.8	13.7	20.9	1.3	0.8	12.9	14.4	4.5	24.9
4600.0	12.11	18.7	13.6	20.6	1.3	0.8	12.8	14.3	4.5	25.0
4700.0	12.06	18.8	13.4	20.4	1.3	0.9	12.7	14.2	4.5	24.9
4800.0	12.00	18.7	13.2	20.3	1.3	0.9	12.6	14.1	4.5	24.3
4900.0	11.95	18.8	13.1	20.0	1.3	0.9	12.2	13.8	4.5	23.4
5000.0	11.89	18.7	12.9	19.7	1.3	0.9	12.1	13.6	4.5	24.1
5100.0	11.83	18.7	12.7	19.5	1.3	0.9	12.0	13.6	4.5	23.8
5200.0	11.77	18.7	12.5	19.5	1.3	0.9	12.0	13.5	4.5	23.8
5300.0	11.71	18.7	12.3	19.1	1.3	0.9	11.8	13.4	4.5	23.7
5400.0	11.64	18.8	12.2	18.8	1.3	0.9	11.5	13.1	4.6	23.4
5500.0	11.57	18.7	12.0	18.7	1.3	0.9	11.3	13.0	4.6	22.9
5600.0	11.50	18.7	11.9	18.6	1.3	0.9	11.1	12.8	4.6	22.9
5700.0	11.43	18.7	11.7	18.3	1.3	0.9	11.0	12.7	4.7	22.5
5800.0	11.35	18.7	11.6	18.0	1.3	0.9	10.9	12.6	4.7	22.1
5900.0	11.28	18.7	11.4	17.9	1.3	0.9	10.8	12.5	4.8	21.6
6000.0	11.20	18.7	11.2	17.7	1.3	0.9	10.5	12.3	4.8	22.1

Typical Performance Data

Note: The following data was taken on the Mini-Circuits Characterization Test Board MB-225-6C+ (Figure 2).

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +5V$, $I_{DD} = 70.0mA$ @ Temperature = $+25^{\circ}C$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	3dB Comp. Output	Noise Figure	IP-3 Output
					K	Measure				
(MHz)	(dB)	(dB)	(dB)	(dB)			(dBm)	(dBm)	(dB)	(dBm)
10.00	13.14	18.8	22.8	39.8	1.2	0.7	17.5	18.2	4.1	28.8
50.00	13.18	18.8	22.5	43.1	1.2	0.7	17.4	18.0	4.1	33.0
100.0	13.17	18.8	22.2	40.7	1.2	0.7	17.4	18.0	4.3	34.5
200.0	13.15	18.8	22.1	40.1	1.2	0.7	17.5	18.1	4.2	34.6
300.0	13.14	18.8	22.2	40.2	1.2	0.7	17.5	18.0	4.0	34.7
400.0	13.12	18.8	22.4	38.6	1.2	0.7	17.6	18.1	4.1	34.7
500.0	13.10	18.8	22.3	39.9	1.2	0.7	17.7	18.2	4.1	34.6
600.0	13.09	18.8	22.4	39.9	1.2	0.7	17.8	18.3	4.1	34.6
700.0	13.07	18.8	22.4	37.3	1.2	0.7	17.8	18.2	4.1	34.6
800.0	13.06	18.8	22.5	36.5	1.2	0.7	17.8	18.2	4.1	34.8
900.0	13.05	18.8	22.4	36.2	1.2	0.7	17.7	18.3	4.2	34.9
1000.0	13.03	18.8	22.4	35.7	1.2	0.7	17.8	18.3	4.1	34.9
1100.0	13.02	18.8	22.2	34.9	1.2	0.7	17.7	18.2	4.1	34.9
1200.0	13.00	18.8	22.0	34.7	1.2	0.7	17.6	18.2	4.2	34.1
1300.0	12.99	18.8	21.8	33.9	1.2	0.8	17.6	18.1	4.2	34.9
1400.0	12.98	18.8	21.8	33.1	1.2	0.8	17.6	18.2	4.1	34.4
1500.0	12.97	18.8	21.6	32.3	1.2	0.8	17.5	18.1	4.2	33.8
1600.0	12.95	18.8	21.3	31.7	1.2	0.8	17.5	18.0	4.2	33.7
1700.0	12.94	18.8	21.1	31.1	1.2	0.8	17.4	18.0	4.2	33.2
1800.0	12.92	18.8	20.9	30.2	1.2	0.8	17.3	17.9	4.2	33.3
1900.0	12.91	18.8	20.6	29.7	1.2	0.8	17.4	17.9	4.2	32.9
2000.0	12.90	18.8	20.2	29.4	1.2	0.8	17.3	17.9	4.2	32.1
2100.0	12.89	18.8	19.9	28.8	1.2	0.8	17.2	17.8	4.2	32.3
2200.0	12.86	18.8	19.6	28.1	1.2	0.8	17.1	17.7	4.2	32.0
2300.0	12.85	18.9	19.3	27.7	1.2	0.8	17.1	17.6	4.3	32.2
2400.0	12.84	18.9	19.1	27.5	1.2	0.8	16.9	17.6	4.4	31.4
2500.0	12.82	18.8	18.8	27.0	1.2	0.8	16.9	17.5	4.3	30.8
2600.0	12.80	18.8	18.7	26.2	1.2	0.8	16.8	17.5	4.3	30.5
2700.0	12.79	18.9	18.4	25.7	1.2	0.8	16.5	17.3	4.3	30.2
2800.0	12.78	18.9	18.1	25.5	1.2	0.8	16.5	17.2	4.3	29.9
2900.0	12.75	18.9	17.9	25.1	1.2	0.8	16.3	17.1	4.3	29.7
3000.0	12.73	18.9	17.6	24.5	1.2	0.8	16.3	17.1	4.3	29.2
3100.0	12.71	18.9	17.3	24.2	1.2	0.8	16.1	17.0	4.4	29.3
3200.0	12.69	18.9	17.0	24.0	1.2	0.8	16.0	16.8	4.4	29.2
3300.0	12.66	18.9	16.7	23.5	1.2	0.8	15.7	16.6	4.4	28.7
3400.0	12.63	18.9	16.5	23.0	1.2	0.8	15.5	16.4	4.4	28.5
3500.0	12.61	18.9	16.3	22.7	1.2	0.8	15.6	16.6	4.4	28.5
3600.0	12.58	18.9	16.0	22.7	1.3	0.8	15.4	16.4	4.4	27.9
3700.0	12.55	18.9	15.7	22.5	1.3	0.8	15.3	16.2	4.4	27.8
3800.0	12.51	18.9	15.5	22.1	1.3	0.8	15.0	16.0	4.4	27.1
3900.0	12.48	18.9	15.3	21.8	1.3	0.8	14.8	15.8	4.4	26.6
4000.0	12.45	18.9	15.0	21.8	1.3	0.8	14.7	15.8	4.4	26.6
4100.0	12.41	18.9	14.8	21.5	1.3	0.8	14.5	15.7	4.4	27.4
4200.0	12.38	18.9	14.7	21.1	1.3	0.8	14.4	15.6	4.4	26.8
4300.0	12.34	18.9	14.4	20.9	1.3	0.8	14.1	15.3	4.4	25.9
4400.0	12.29	18.9	14.2	20.8	1.3	0.8	13.9	15.1	4.5	26.9
4500.0	12.26	18.8	14.0	20.6	1.3	0.8	13.8	15.1	4.6	25.7
4600.0	12.21	18.8	13.9	20.2	1.3	0.8	13.6	15.0	4.5	25.8
4700.0	12.16	18.8	13.7	20.0	1.3	0.8	13.6	15.0	4.5	25.5
4800.0	12.11	18.8	13.5	19.9	1.3	0.9	13.5	14.8	4.6	25.1
4900.0	12.06	18.8	13.3	19.6	1.3	0.9	13.1	14.5	4.6	24.3
5000.0	12.00	18.8	13.2	19.3	1.3	0.9	12.9	14.4	4.6	24.9
5100.0	11.94	18.8	13.0	19.1	1.3	0.9	12.9	14.4	4.6	24.7
5200.0	11.89	18.8	12.8	19.1	1.3	0.9	12.8	14.3	4.6	24.6
5300.0	11.83	18.8	12.6	18.7	1.3	0.9	12.7	14.1	4.7	24.5
5400.0	11.76	18.8	12.5	18.4	1.3	0.9	12.4	13.9	4.7	24.2
5500.0	11.70	18.8	12.3	18.3	1.3	0.9	12.2	13.8	4.7	23.6
5600.0	11.63	18.8	12.1	18.2	1.3	0.9	11.9	13.6	4.7	23.7
5700.0	11.57	18.8	12.0	17.9	1.3	0.9	11.9	13.5	4.7	23.4
5800.0	11.49	18.8	11.8	17.6	1.3	0.9	11.8	13.4	4.7	23.1
5900.0	11.42	18.8	11.7	17.4	1.3	0.9	11.7	13.3	4.8	22.5
6000.0	11.34	18.8	11.5	17.2	1.3	0.9	11.3	13.0	4.8	22.9

Typical Performance Data

Note: The following data was taken on the Mini-Circuits Characterization Test Board MB-225-6C+ (Figure 2).

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +5.12V$, $I_{DD} = 84mA$ @ Temperature = $+25^{\circ}C$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	3dB Comp. Output	Noise Figure	IP-3 Output
					K	Measure				
(MHz)	(dB)	(dB)	(dB)	(dB)			(dBm)	(dBm)	(dB)	(dBm)
10.00	13.21	18.8	23.1	42.0	1.2	0.7	17.7	18.5	4.1	31.9
50.00	13.24	18.8	22.9	44.0	1.2	0.7	17.7	18.6	4.2	35.5
100.0	13.23	18.8	22.7	46.0	1.2	0.7	17.7	18.6	4.3	35.0
200.0	13.22	18.8	22.6	44.8	1.2	0.7	17.9	18.7	4.2	35.8
300.0	13.20	18.8	22.8	42.1	1.2	0.7	17.9	18.7	4.2	35.7
400.0	13.19	18.8	22.9	39.4	1.2	0.7	18.0	18.8	4.1	35.7
500.0	13.18	18.8	22.8	40.0	1.2	0.7	18.2	18.9	4.2	35.4
600.0	13.16	18.8	22.9	39.0	1.2	0.7	18.4	19.0	4.1	35.4
700.0	13.14	18.8	22.9	36.3	1.2	0.7	18.5	19.0	4.1	35.4
800.0	13.13	18.8	22.9	35.5	1.2	0.7	18.6	19.1	4.2	35.5
900.0	13.12	18.8	22.9	35.0	1.2	0.7	18.7	19.1	4.2	35.6
1000.0	13.10	18.8	22.8	34.3	1.2	0.7	18.8	19.2	4.2	35.4
1100.0	13.09	18.8	22.7	33.7	1.2	0.7	18.7	19.1	4.2	35.1
1200.0	13.08	18.8	22.4	33.6	1.2	0.7	18.8	19.2	4.3	34.4
1300.0	13.07	18.9	22.2	32.7	1.2	0.8	18.7	19.1	4.3	35.6
1400.0	13.06	18.8	22.2	31.9	1.2	0.8	18.5	19.1	4.2	35.8
1500.0	13.04	18.9	22.0	31.3	1.2	0.8	18.5	19.1	4.2	34.9
1600.0	13.03	18.9	21.7	30.7	1.2	0.8	18.4	19.0	4.3	34.1
1700.0	13.02	18.9	21.4	30.2	1.2	0.8	18.5	19.1	4.3	33.9
1800.0	13.01	18.9	21.2	29.3	1.2	0.8	18.2	18.9	4.3	33.6
1900.0	12.99	18.9	20.9	28.9	1.2	0.8	18.3	18.9	4.3	32.7
2000.0	12.98	18.9	20.6	28.7	1.2	0.8	17.9	18.8	4.3	32.5
2100.0	12.96	18.9	20.2	28.2	1.2	0.8	18.0	18.7	4.3	32.4
2200.0	12.95	18.9	19.9	27.6	1.2	0.8	17.8	18.6	4.3	31.7
2300.0	12.94	18.9	19.6	27.2	1.2	0.8	17.7	18.5	4.4	32.0
2400.0	12.92	18.9	19.4	27.0	1.2	0.8	17.6	18.4	4.4	31.7
2500.0	12.91	18.9	19.1	26.6	1.2	0.8	17.5	18.3	4.4	31.4
2600.0	12.89	18.9	19.0	25.8	1.2	0.8	17.5	18.2	4.4	30.9
2700.0	12.87	18.9	18.7	25.4	1.2	0.8	17.1	17.9	4.4	30.4
2800.0	12.86	18.9	18.4	25.2	1.2	0.8	17.1	17.8	4.4	30.8
2900.0	12.84	18.9	18.1	24.7	1.3	0.8	16.9	17.7	4.4	29.9
3000.0	12.82	18.9	17.9	24.2	1.2	0.8	17.0	17.7	4.4	29.3
3100.0	12.80	18.9	17.5	23.9	1.2	0.8	16.8	17.6	4.5	29.9
3200.0	12.77	18.9	17.2	23.7	1.3	0.8	16.6	17.4	4.5	29.5
3300.0	12.75	18.9	17.0	23.3	1.3	0.8	16.3	17.2	4.5	29.3
3400.0	12.72	18.9	16.8	22.8	1.3	0.8	16.2	17.0	4.5	28.7
3500.0	12.70	18.9	16.5	22.5	1.3	0.8	16.3	17.2	4.5	28.8
3600.0	12.67	18.9	16.3	22.5	1.3	0.8	16.1	17.0	4.5	28.0
3700.0	12.64	18.9	16.0	22.2	1.3	0.8	15.9	16.8	4.6	28.4
3800.0	12.62	18.9	15.7	21.9	1.3	0.8	15.7	16.6	4.5	27.2
3900.0	12.58	18.9	15.5	21.6	1.3	0.8	15.5	16.4	4.5	26.7
4000.0	12.55	18.9	15.3	21.5	1.3	0.8	15.5	16.4	4.5	26.9
4100.0	12.52	18.9	15.1	21.3	1.3	0.8	15.3	16.3	4.5	27.6
4200.0	12.48	18.9	14.9	20.9	1.3	0.8	15.2	16.2	4.6	27.2
4300.0	12.45	18.9	14.7	20.7	1.3	0.8	14.9	15.9	4.6	26.3
4400.0	12.40	18.9	14.5	20.6	1.3	0.8	14.6	15.7	4.6	27.4
4500.0	12.37	18.9	14.3	20.3	1.3	0.8	14.6	15.7	4.6	26.2
4600.0	12.32	18.9	14.1	20.0	1.3	0.8	14.4	15.7	4.7	26.3
4700.0	12.28	18.9	14.0	19.8	1.3	0.8	14.3	15.6	4.7	26.1
4800.0	12.23	18.9	13.8	19.7	1.3	0.8	14.3	15.5	4.7	25.6
4900.0	12.19	18.9	13.6	19.4	1.3	0.9	13.9	15.1	4.7	24.6
5000.0	12.13	18.9	13.4	19.1	1.3	0.9	13.7	15.0	4.7	25.4
5100.0	12.08	18.9	13.2	18.9	1.3	0.9	13.7	15.0	4.7	25.1
5200.0	12.02	18.9	13.0	18.8	1.3	0.9	13.6	15.0	4.8	25.0
5300.0	11.96	18.9	12.8	18.5	1.3	0.9	13.4	14.8	4.9	24.8
5400.0	11.91	18.9	12.7	18.2	1.3	0.9	13.2	14.6	4.8	24.7
5500.0	11.85	18.9	12.5	18.0	1.3	0.9	13.0	14.5	4.8	24.1
5600.0	11.78	18.9	12.3	17.9	1.3	0.9	12.8	14.3	4.8	24.2
5700.0	11.72	18.9	12.1	17.6	1.3	0.9	12.7	14.2	4.9	23.9
5800.0	11.65	18.9	12.0	17.3	1.3	0.9	12.6	14.1	4.9	23.5
5900.0	11.58	18.9	11.8	17.2	1.3	0.9	12.5	14.0	4.9	23.0
6000.0	11.51	18.9	11.7	17.0	1.3	0.9	12.1	13.7	4.9	23.4

Typical Performance Data

Note: The following data was taken on the Mini-Circuits Characterization Test Board MB-225-6C+ (Figure 2).

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +5.2V$, $I_{DD} = 70.0mA$ @ Temperature = $-55^{\circ}C$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	3dB Comp. Output	Noise Figure	IP-3 Output
					K	Measure				
(MHz)	(dB)	(dB)	(dB)	(dB)			(dBm)	(dBm)	(dB)	(dBm)
10.00	13.29	18.9	22.6	40.3	1.2	0.7	18.1	18.6	3.2	30.0
50.00	13.30	18.9	22.4	41.3	1.2	0.7	17.9	18.4	3.4	34.6
100.0	13.29	18.8	22.2	42.4	1.2	0.7	17.9	18.4	3.5	34.9
200.0	13.27	18.8	22.1	41.1	1.2	0.7	18.0	18.5	3.4	35.2
300.0	13.25	18.8	22.0	40.4	1.2	0.7	18.0	18.4	3.3	36.6
400.0	13.24	18.8	22.2	39.4	1.2	0.7	18.0	18.5	3.3	36.6
500.0	13.23	18.9	22.2	40.2	1.2	0.7	18.2	18.6	3.4	36.7
600.0	13.21	18.8	22.3	40.0	1.2	0.7	18.2	18.7	3.3	36.4
700.0	13.19	18.8	22.4	38.2	1.2	0.7	18.1	18.6	3.3	36.2
800.0	13.18	18.8	22.4	36.7	1.2	0.7	18.1	18.6	3.4	35.6
900.0	13.16	18.8	22.4	35.5	1.2	0.7	18.1	18.7	3.4	35.0
1000.0	13.14	18.8	22.3	35.3	1.2	0.7	18.1	18.7	3.4	36.2
1100.0	13.13	18.8	22.2	34.7	1.2	0.7	18.0	18.6	3.4	36.0
1200.0	13.12	18.8	22.0	34.0	1.2	0.7	18.0	18.5	3.4	34.8
1300.0	13.10	18.8	21.9	33.2	1.2	0.7	17.9	18.5	3.4	35.5
1400.0	13.08	18.9	21.7	32.9	1.2	0.7	18.1	18.6	3.4	35.9
1500.0	13.07	18.9	21.5	32.2	1.2	0.7	17.9	18.4	3.4	34.8
1600.0	13.06	18.8	21.4	31.2	1.2	0.8	17.9	18.4	3.4	33.7
1700.0	13.04	18.9	21.1	30.7	1.2	0.8	17.8	18.3	3.4	34.5
1800.0	13.02	18.9	20.8	30.1	1.2	0.8	17.8	18.3	3.4	34.4
1900.0	13.01	18.9	20.6	29.6	1.2	0.8	17.9	18.4	3.4	34.0
2000.0	13.00	18.9	20.3	29.1	1.2	0.8	17.8	18.3	3.5	33.5
2100.0	12.98	18.9	20.0	28.6	1.2	0.8	17.8	18.2	3.5	33.6
2200.0	12.96	18.9	19.7	28.2	1.2	0.8	17.7	18.2	3.5	32.6
2300.0	12.95	18.9	19.4	27.9	1.2	0.8	17.7	18.2	3.5	32.7
2400.0	12.93	18.9	19.2	27.5	1.2	0.8	17.6	18.1	3.5	32.2
2500.0	12.91	18.9	18.9	27.3	1.2	0.8	17.5	18.1	3.5	32.1
2600.0	12.90	18.9	18.8	26.6	1.2	0.8	17.5	18.0	3.5	31.9
2700.0	12.88	18.9	18.5	26.2	1.2	0.8	17.3	17.9	3.5	31.5
2800.0	12.87	18.9	18.3	25.9	1.2	0.8	17.2	17.8	3.5	31.7
2900.0	12.84	18.9	18.0	25.5	1.2	0.8	17.1	17.8	3.5	30.9
3000.0	12.82	18.9	17.8	25.0	1.2	0.8	17.1	17.8	3.5	30.9
3100.0	12.80	18.9	17.5	24.7	1.2	0.8	16.9	17.7	3.6	30.3
3200.0	12.78	18.9	17.2	24.3	1.2	0.8	16.8	17.5	3.6	30.9
3300.0	12.76	18.9	16.9	23.9	1.2	0.8	16.6	17.4	3.6	30.1
3400.0	12.73	18.9	16.7	23.4	1.2	0.8	16.4	17.2	3.6	30.2
3500.0	12.71	18.9	16.4	23.1	1.2	0.8	16.5	17.4	3.7	30.1
3600.0	12.68	18.9	16.2	22.9	1.2	0.8	16.3	17.2	3.6	29.6
3700.0	12.65	18.9	16.0	22.6	1.2	0.8	16.2	17.0	3.7	29.5
3800.0	12.62	18.9	15.7	22.3	1.2	0.8	15.9	16.8	3.6	28.8
3900.0	12.59	18.9	15.5	21.9	1.2	0.8	15.7	16.7	3.7	28.0
4000.0	12.55	18.9	15.2	21.7	1.2	0.8	15.6	16.7	3.7	28.2
4100.0	12.52	18.9	15.0	21.5	1.2	0.8	15.4	16.6	3.7	28.7
4200.0	12.49	18.9	14.8	21.2	1.2	0.8	15.3	16.5	3.6	28.5
4300.0	12.45	18.8	14.6	20.9	1.2	0.8	15.0	16.2	3.7	27.6
4400.0	12.41	18.8	14.4	20.7	1.2	0.8	14.8	16.0	3.7	28.4
4500.0	12.38	18.9	14.2	20.3	1.2	0.8	14.7	16.0	3.7	27.3
4600.0	12.33	18.8	14.0	20.1	1.2	0.8	14.5	15.9	3.7	27.3
4700.0	12.30	18.9	13.9	19.9	1.2	0.8	14.5	15.9	3.8	27.1
4800.0	12.25	18.9	13.7	19.7	1.2	0.8	14.4	15.8	3.8	26.8
4900.0	12.20	18.8	13.5	19.4	1.2	0.8	14.0	15.4	3.8	25.9
5000.0	12.15	18.8	13.3	19.2	1.2	0.8	13.8	15.3	3.8	26.5
5100.0	12.11	18.8	13.1	19.0	1.2	0.9	13.9	15.3	3.8	26.4
5200.0	12.06	18.8	12.9	18.9	1.2	0.9	13.8	15.2	3.9	26.3
5300.0	12.00	18.8	12.7	18.6	1.2	0.9	13.6	15.1	3.9	26.0
5400.0	11.95	18.8	12.6	18.4	1.3	0.9	13.3	14.8	3.9	25.8
5500.0	11.90	18.8	12.4	18.2	1.3	0.9	13.1	14.7	3.9	25.4
5600.0	11.84	18.8	12.2	18.1	1.3	0.9	12.9	14.5	3.9	25.4
5700.0	11.77	18.8	12.1	17.8	1.3	0.9	12.8	14.4	3.9	25.3
5800.0	11.71	18.8	11.9	17.6	1.3	0.9	12.8	14.4	3.9	24.7
5900.0	11.65	18.8	11.7	17.4	1.3	0.9	12.6	14.3	4.0	24.2
6000.0	11.58	18.8	11.6	17.2	1.3	0.9	12.3	13.9	4.0	24.6

Typical Performance Data

Note: The following data was taken on the Mini-Circuits Characterization Test Board MB-225-6C+ (Figure 2).

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: VDD = +4.8V, IDD = 70.0mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	3dB Comp. Output	Noise Figure	IP-3 Output
					K	Measure				
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)	(dBm)
10.00	13.06	18.8	22.6	37.66	1.23	0.74	16.9	17.8	4.5	29.0
50.00	13.07	18.7	22.5	40.95	1.22	0.73	17.1	17.9	4.6	33.1
100.0	13.06	18.7	22.3	40.2	1.22	0.74	16.9	17.7	4.8	33.7
200.0	13.05	18.7	22.4	40.2	1.22	0.74	17.1	17.8	4.7	34.8
300.0	13.04	18.8	22.4	39.3	1.22	0.74	17.1	17.7	4.6	34.1
400.0	13.01	18.7	22.4	37.8	1.22	0.74	17.2	17.8	4.6	33.6
500.0	13.00	18.7	22.3	38.6	1.23	0.74	17.3	17.9	4.7	34.1
600.0	12.99	18.7	22.3	37.9	1.23	0.75	17.4	18.0	4.6	34.4
700.0	12.97	18.7	22.2	37.0	1.23	0.75	17.5	17.9	4.6	34.6
800.0	12.96	18.8	22.2	36.5	1.23	0.75	17.5	18.0	4.7	34.8
900.0	12.95	18.7	22.2	36.2	1.23	0.75	17.4	18.0	4.7	34.1
1000.0	12.93	18.8	22.1	35.8	1.24	0.75	17.5	18.0	4.7	34.6
1100.0	12.92	18.8	21.9	35.4	1.24	0.75	17.3	17.9	4.7	34.0
1200.0	12.91	18.8	21.7	34.8	1.24	0.76	17.3	17.9	4.7	34.2
1300.0	12.91	18.8	21.6	33.8	1.24	0.76	17.3	17.9	4.8	33.6
1400.0	12.89	18.8	21.5	33.4	1.24	0.76	17.3	17.9	4.7	34.3
1500.0	12.88	18.8	21.3	32.7	1.24	0.76	17.2	17.8	4.7	33.2
1600.0	12.87	18.8	21.1	31.7	1.25	0.76	17.1	17.7	4.8	32.4
1700.0	12.86	18.8	20.8	31.2	1.25	0.77	17.1	17.7	4.8	31.8
1800.0	12.85	18.8	20.6	30.6	1.25	0.77	16.9	17.6	4.8	32.1
1900.0	12.84	18.8	20.4	30.0	1.25	0.77	17.0	17.6	4.8	31.5
2000.0	12.83	18.8	20.1	29.3	1.25	0.77	16.7	17.5	4.7	30.8
2100.0	12.82	18.8	19.8	28.6	1.25	0.77	16.7	17.4	4.8	31.1
2200.0	12.80	18.8	19.5	28.0	1.25	0.78	16.6	17.3	4.8	30.7
2300.0	12.79	18.8	19.2	27.5	1.25	0.78	16.5	17.2	4.8	30.3
2400.0	12.77	18.9	18.9	27.1	1.26	0.78	16.4	17.1	4.9	30.2
2500.0	12.76	18.9	18.6	26.7	1.26	0.78	16.2	17.0	4.9	29.5
2600.0	12.73	18.9	18.4	26.1	1.26	0.79	16.2	17.0	4.8	29.1
2700.0	12.72	18.9	18.1	25.7	1.26	0.79	15.9	16.7	4.9	28.9
2800.0	12.70	18.9	17.8	25.3	1.26	0.79	15.8	16.6	4.9	28.4
2900.0	12.68	18.9	17.5	24.9	1.26	0.79	15.6	16.5	4.9	27.9
3000.0	12.66	18.9	17.2	24.5	1.26	0.80	15.6	16.5	4.9	27.8
3100.0	12.63	18.9	16.9	24.1	1.26	0.80	15.4	16.4	5.0	27.8
3200.0	12.61	18.9	16.7	23.8	1.26	0.80	15.2	16.2	5.0	27.5
3300.0	12.58	18.9	16.4	23.5	1.26	0.81	15.0	15.9	5.0	27.3
3400.0	12.55	18.9	16.2	23.2	1.26	0.81	14.8	15.8	5.0	27.1
3500.0	12.53	18.9	15.9	22.9	1.26	0.81	14.9	15.9	5.0	26.9
3600.0	12.49	18.9	15.7	22.6	1.27	0.82	14.6	15.7	5.0	26.2
3700.0	12.46	18.9	15.5	22.4	1.27	0.82	14.5	15.5	5.0	26.4
3800.0	12.43	18.9	15.3	22.1	1.27	0.83	14.2	15.3	5.1	25.5
3900.0	12.39	18.9	15.1	21.8	1.27	0.83	14.0	15.1	5.0	25.0
4000.0	12.35	18.9	14.9	21.7	1.27	0.83	13.9	15.1	5.1	25.0
4100.0	12.31	18.9	14.7	21.5	1.27	0.84	13.7	15.0	5.1	25.8
4200.0	12.26	18.9	14.5	21.3	1.27	0.84	13.6	14.9	5.0	25.2
4300.0	12.22	18.9	14.3	21.1	1.27	0.84	13.3	14.6	5.1	24.3
4400.0	12.17	18.9	14.1	20.9	1.28	0.85	13.0	14.4	5.1	25.3
4500.0	12.12	18.9	13.9	20.7	1.28	0.85	12.9	14.3	5.2	24.1
4600.0	12.07	18.9	13.8	20.4	1.28	0.86	12.8	14.3	5.2	24.1
4700.0	12.01	18.9	13.6	20.2	1.28	0.86	12.7	14.2	5.2	24.0
4800.0	11.95	18.9	13.4	20.0	1.29	0.87	12.6	14.1	5.2	23.5
4900.0	11.89	18.9	13.2	19.8	1.29	0.87	12.2	13.7	5.2	22.5
5000.0	11.83	18.9	13.1	19.5	1.29	0.88	12.1	13.6	5.3	23.3
5100.0	11.76	18.9	12.9	19.4	1.30	0.88	12.0	13.6	5.2	23.0
5200.0	11.69	18.9	12.7	19.2	1.30	0.89	11.9	13.5	5.3	22.9
5300.0	11.62	18.9	12.6	18.9	1.31	0.89	11.7	13.3	5.4	22.9
5400.0	11.55	18.9	12.4	18.6	1.31	0.89	11.5	13.1	5.3	22.5
5500.0	11.47	18.9	12.2	18.4	1.31	0.90	11.3	13.0	5.4	22.0
5600.0	11.39	18.9	12.1	18.3	1.32	0.91	11.1	12.8	5.4	22.0
5700.0	11.31	18.9	11.9	18.0	1.32	0.91	11.0	12.7	5.4	21.6
5800.0	11.23	18.9	11.7	17.8	1.33	0.92	10.9	12.6	5.4	21.3
5900.0	11.14	18.9	11.6	17.6	1.33	0.92	10.7	12.5	5.5	20.8
6000.0	11.05	18.9	11.4	17.4	1.34	0.93	10.4	12.2	5.5	21.3

Typical Performance Data

Note: The following data was taken on the Mini-Circuits Evaluation Board TB-LEE1-6C+ (Figure 3).

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{CC} = +8V$, $I_{CC} = 71.5mA$ @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	3dB Comp. Output	Noise Figure	IP-3 Output
					K	Measure				
(MHz)	(dB)	(dB)	(dB)	(dB)			(dBm)	(dBm)	(dB)	(dBm)
10.00	12.33	19.7	19.6	15.3	1.3	0.8	16.4	17.2	4.3	30.1
50.00	13.10	18.9	21.9	41.9	1.2	0.7	17.5	18.2	4.1	32.5
100.00	13.14	18.8	22.2	47.7	1.2	0.7	17.5	18.3	4.2	35.8
200.00	13.12	18.8	22.3	37.7	1.2	0.7	17.7	18.4	4.2	35.6
300.00	13.10	18.8	22.7	33.3	1.2	0.7	17.8	18.5	4.2	35.2
400.00	13.06	18.8	23.1	31.0	1.2	0.7	17.9	18.5	4.2	36.6
500.00	13.03	18.8	23.1	29.3	1.2	0.7	17.9	18.5	4.2	36.0
600.00	13.00	18.8	23.4	27.9	1.2	0.7	17.9	18.5	4.2	36.9
700.00	12.98	18.8	23.7	26.8	1.2	0.7	18.0	18.6	4.2	36.6
800.00	12.95	18.9	24.1	25.2	1.2	0.7	17.9	18.5	4.2	36.3
900.00	12.94	18.8	24.2	24.3	1.2	0.7	17.9	18.6	4.2	34.7
1000.00	12.93	18.8	24.6	23.7	1.2	0.7	17.9	18.5	4.2	35.4
1100.00	12.90	18.8	24.9	23.0	1.2	0.7	17.8	18.5	4.2	34.5
1200.00	12.89	18.8	25.1	22.3	1.2	0.7	17.8	18.5	4.2	36.1
1300.00	12.87	18.8	25.4	22.0	1.2	0.7	17.8	18.4	4.2	34.6
1400.00	12.85	18.9	25.7	21.5	1.2	0.7	17.7	18.4	4.1	34.1
1500.00	12.84	18.8	25.7	21.2	1.2	0.7	17.6	18.4	4.2	34.2
1600.00	12.82	18.9	25.6	21.0	1.2	0.7	17.7	18.3	4.2	34.0
1700.00	12.81	18.8	25.4	20.7	1.2	0.7	17.6	18.3	4.2	35.0
1800.00	12.79	18.9	24.9	20.4	1.2	0.7	17.5	18.2	4.1	33.4
1900.00	12.76	18.9	24.3	20.2	1.2	0.8	17.6	18.3	4.2	32.7
2000.00	12.74	18.9	23.4	20.2	1.2	0.8	17.4	18.2	4.2	33.1
2100.00	12.71	18.9	22.5	20.3	1.2	0.8	17.4	18.2	4.2	32.5
2200.00	12.70	18.9	21.6	20.1	1.2	0.8	17.3	18.1	4.2	34.3
2300.00	12.68	18.9	20.7	20.1	1.2	0.8	17.4	18.1	4.2	33.2
2400.00	12.65	18.9	19.7	20.1	1.2	0.8	17.3	18.1	4.3	31.3
2500.00	12.63	18.9	18.7	20.1	1.2	0.8	17.2	18.0	4.3	31.6
2600.00	12.60	18.9	17.8	20.0	1.2	0.8	17.1	17.9	4.2	31.4
2700.00	12.58	18.9	16.9	19.8	1.2	0.8	17.1	17.9	4.3	31.1
2800.00	12.54	19.0	16.2	19.7	1.2	0.8	16.9	17.8	4.3	30.7
2900.00	12.50	19.0	15.4	19.5	1.2	0.8	16.9	17.8	4.3	30.9
3000.00	12.46	19.0	14.7	19.3	1.2	0.8	16.8	17.7	4.3	30.1
3100.00	12.42	19.0	14.1	19.0	1.2	0.8	16.7	17.6	4.3	30.7
3200.00	12.38	19.0	13.5	18.7	1.3	0.8	16.5	17.4	4.4	30.4
3300.00	12.33	19.0	13.0	18.4	1.3	0.8	16.3	17.4	4.4	29.0
3400.00	12.28	19.1	12.5	18.1	1.3	0.8	16.2	17.2	4.4	29.4
3500.00	12.23	19.1	12.0	17.9	1.3	0.8	16.1	17.1	4.5	29.0
3600.00	12.18	19.1	11.6	17.6	1.3	0.8	15.9	17.0	4.4	29.0
3700.00	12.13	19.1	11.3	17.4	1.3	0.8	15.6	16.6	4.5	28.3
3800.00	12.09	19.1	11.0	17.3	1.3	0.8	15.5	16.6	4.5	28.1
3900.00	12.05	19.1	10.7	17.1	1.3	0.8	15.3	16.5	4.5	28.3
4000.00	12.00	19.1	10.4	17.1	1.3	0.9	15.3	16.4	4.5	27.9
4100.00	11.96	19.2	10.2	16.9	1.3	0.9	15.1	16.3	4.5	28.0
4200.00	11.92	19.1	10.0	16.9	1.3	0.9	14.9	16.1	4.5	27.4
4300.00	11.86	19.2	9.9	16.9	1.3	0.9	14.8	16.1	4.5	27.6
4400.00	11.83	19.2	9.7	17.0	1.3	0.9	14.6	16.0	4.6	27.3
4500.00	11.80	19.1	9.6	17.0	1.3	0.9	14.6	15.9	4.6	26.7
4600.00	11.75	19.1	9.5	17.1	1.3	0.9	14.5	15.8	4.6	26.9
4700.00	11.73	19.1	9.4	17.3	1.3	0.9	14.2	15.6	4.6	26.5
4800.00	11.69	19.1	9.3	17.5	1.3	0.9	13.9	15.3	4.6	26.4
4900.00	11.66	19.1	9.3	17.7	1.3	0.9	13.8	15.3	4.7	26.1
5000.00	11.62	19.1	9.3	17.9	1.3	0.9	13.7	15.3	4.7	25.9
5100.00	11.60	19.0	9.3	18.3	1.3	0.9	13.4	14.9	4.6	25.5
5200.00	11.56	19.0	9.3	18.8	1.3	0.9	13.1	14.7	4.7	25.2
5300.00	11.53	19.0	9.3	19.2	1.3	0.9	13.0	14.6	4.7	24.9
5400.00	11.48	19.0	9.3	19.7	1.3	0.9	12.9	14.5	4.7	24.9
5500.00	11.45	18.9	9.4	20.3	1.3	0.9	12.8	14.4	4.7	24.6
5600.00	11.40	18.9	9.4	21.0	1.3	0.9	12.6	14.2	4.8	24.5
5700.00	11.35	18.9	9.5	21.6	1.3	0.9	12.4	14.1	4.7	24.3
5800.00	11.29	18.9	9.6	22.0	1.3	0.9	12.1	13.8	4.8	23.8
5900.00	11.24	18.9	9.7	22.4	1.3	0.9	11.9	13.6	4.8	23.3
6000.00	11.17	18.9	9.8	22.8	1.3	0.9	11.8	13.5	4.8	23.3

Typical Performance Data

Note: The following data was taken on the Mini-Circuits Evaluation Board TB-LEE1-6C+ (Figure 3).

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{CC} = +8V$, $I_{CC} = 66.8mA$ @ Temperature = $-55^{\circ}C$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	3dB Comp. Output	Noise Figure	IP-3 Output
					K	Measure				
(MHz)	(dB)	(dB)	(dB)	(dB)			(dBm)	(dBm)	(dB)	(dBm)
10.00	12.37	19.8	19.3	15.0	1.3	0.8	16.7	17.3	3.6	29.3
50.00	13.22	18.9	21.7	40.8	1.2	0.7	17.6	18.2	3.3	36.3
100.0	13.24	18.9	21.9	47.8	1.2	0.7	17.7	18.3	3.5	34.9
200.0	13.23	18.9	21.8	37.2	1.2	0.7	17.9	18.5	3.4	35.3
300.0	13.22	18.9	22.2	33.6	1.2	0.7	17.9	18.5	3.4	36.1
400.0	13.20	18.9	22.7	31.2	1.2	0.7	17.9	18.5	3.4	35.4
500.0	13.16	18.9	22.9	29.5	1.2	0.7	18.0	18.6	3.4	36.1
600.0	13.14	18.9	23.2	27.9	1.2	0.7	17.9	18.6	3.4	37.1
700.0	13.13	18.9	23.7	26.8	1.2	0.7	17.9	18.7	3.3	36.8
800.0	13.08	18.9	24.4	25.5	1.2	0.7	17.8	18.6	3.4	36.5
900.0	13.09	18.8	24.3	24.2	1.2	0.7	17.8	18.6	3.4	34.6
1000.0	13.07	18.9	24.7	23.7	1.2	0.7	17.8	18.6	3.4	36.3
1100.0	13.05	18.9	25.1	23.2	1.2	0.7	17.7	18.5	3.4	34.3
1200.0	13.03	18.9	25.3	22.3	1.2	0.7	17.7	18.5	3.4	36.0
1300.0	13.02	18.9	25.7	22.0	1.2	0.7	17.7	18.5	3.4	35.4
1400.0	13.00	18.9	26.0	21.6	1.2	0.7	17.7	18.4	3.4	34.9
1500.0	13.00	18.8	25.9	21.3	1.2	0.7	17.5	18.4	3.4	34.8
1600.0	12.98	18.8	25.8	21.1	1.2	0.7	17.6	18.4	3.4	35.1
1700.0	12.96	18.9	25.5	20.8	1.2	0.7	17.5	18.3	3.4	34.9
1800.0	12.94	18.9	24.9	20.6	1.2	0.7	17.5	18.3	3.4	34.4
1900.0	12.90	18.9	24.2	20.4	1.2	0.7	17.5	18.3	3.4	35.7
2000.0	12.88	18.9	23.3	20.3	1.2	0.7	17.4	18.2	3.4	33.3
2100.0	12.86	18.9	22.5	20.3	1.2	0.8	17.5	18.3	3.4	34.7
2200.0	12.85	18.9	21.6	20.3	1.2	0.8	17.5	18.2	3.4	32.9
2300.0	12.83	18.9	20.7	20.2	1.2	0.8	17.5	18.3	3.4	33.2
2400.0	12.81	18.9	19.8	20.2	1.2	0.8	17.3	18.2	3.4	32.7
2500.0	12.79	18.9	18.9	20.2	1.2	0.8	17.2	18.2	3.4	33.2
2600.0	12.77	18.9	18.1	20.2	1.2	0.8	17.1	18.1	3.4	32.6
2700.0	12.74	18.9	17.2	20.1	1.2	0.8	17.2	18.1	3.5	32.4
2800.0	12.70	18.9	16.4	20.2	1.2	0.8	17.1	18.0	3.5	31.9
2900.0	12.68	18.9	15.7	20.1	1.2	0.8	17.0	18.0	3.5	32.4
3000.0	12.64	18.9	15.0	19.9	1.2	0.8	16.9	17.9	3.5	31.5
3100.0	12.61	19.0	14.3	19.6	1.2	0.8	16.7	17.8	3.5	31.9
3200.0	12.56	19.0	13.7	19.3	1.2	0.8	16.7	17.8	3.5	31.2
3300.0	12.52	19.0	13.2	19.0	1.2	0.8	16.6	17.7	3.5	30.7
3400.0	12.47	19.0	12.7	18.6	1.2	0.8	16.5	17.6	3.6	31.0
3500.0	12.42	19.0	12.2	18.4	1.2	0.8	16.5	17.6	3.5	30.6
3600.0	12.37	19.0	11.7	18.1	1.2	0.8	16.3	17.4	3.6	30.1
3700.0	12.32	19.1	11.4	17.8	1.2	0.8	16.1	17.2	3.6	29.9
3800.0	12.27	19.1	11.0	17.5	1.2	0.8	16.0	17.2	3.6	29.9
3900.0	12.23	19.1	10.7	17.3	1.2	0.8	15.8	17.1	3.6	29.7
4000.0	12.18	19.1	10.5	17.2	1.2	0.8	15.8	17.0	3.6	29.0
4100.0	12.14	19.1	10.2	17.1	1.2	0.9	15.6	16.9	3.6	29.0
4200.0	12.11	19.1	10.0	17.0	1.2	0.9	15.4	16.7	3.7	28.6
4300.0	12.07	19.1	9.9	16.9	1.2	0.9	15.3	16.7	3.7	28.8
4400.0	12.04	19.1	9.7	17.0	1.2	0.9	15.2	16.6	3.7	28.5
4500.0	12.02	19.1	9.6	16.9	1.2	0.9	15.1	16.5	3.7	28.3
4600.0	11.97	19.1	9.4	17.0	1.2	0.9	15.1	16.5	3.7	28.3
4700.0	11.96	19.1	9.4	17.1	1.2	0.9	14.8	16.2	3.8	27.8
4800.0	11.93	19.0	9.3	17.3	1.2	0.9	14.5	16.0	3.7	27.8
4900.0	11.90	19.0	9.2	17.4	1.2	0.9	14.4	15.9	3.8	27.3
5000.0	11.87	19.0	9.2	17.6	1.2	0.9	14.3	15.9	3.8	27.3
5100.0	11.85	19.0	9.2	17.9	1.2	0.9	14.0	15.5	3.8	26.9
5200.0	11.81	19.0	9.2	18.3	1.2	0.9	13.7	15.3	3.8	26.8
5300.0	11.80	18.9	9.2	18.7	1.2	0.9	13.6	15.3	3.8	26.5
5400.0	11.75	18.9	9.2	19.1	1.2	0.9	13.6	15.2	3.8	26.4
5500.0	11.73	18.9	9.2	19.6	1.2	0.9	13.4	15.1	3.9	26.1
5600.0	11.70	18.8	9.3	20.2	1.2	0.9	13.2	14.9	3.9	26.0
5700.0	11.65	18.8	9.4	20.8	1.2	0.9	13.1	14.8	3.8	25.6
5800.0	11.61	18.8	9.4	21.2	1.3	0.9	12.8	14.5	3.9	25.2
5900.0	11.56	18.8	9.5	21.6	1.3	0.9	12.6	14.3	3.9	24.7
6000.0	11.50	18.8	9.6	22.0	1.3	0.9	12.6	14.2	3.9	24.9

Typical Performance Data

Note: The following data was taken on the Mini-Circuits Evaluation Board TB-LEE1-6C+ (Figure 3).

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{CC} = +8V$, $I_{CC} = 75.0mA$ @ Temperature = $+85^{\circ}C$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	3dB Comp. Output	Noise Figure	IP-3 Output
					K	Measure				
(MHz)	(dB)	(dB)	(dB)	(dB)			(dBm)	(dBm)	(dB)	(dBm)
10.00	12.23	19.6	19.9	15.4	1.3	0.8	15.9	16.9	4.9	28.4
50.00	13.02	18.9	22.1	43.4	1.2	0.7	17.1	18.0	4.7	32.3
100.0	13.04	18.8	22.5	48.8	1.2	0.7	17.0	18.0	4.8	36.1
200.0	13.02	18.8	22.7	37.7	1.2	0.7	17.3	18.2	4.8	35.6
300.0	13.01	18.8	22.8	33.2	1.2	0.7	17.4	18.3	4.8	35.8
400.0	12.96	18.8	23.1	30.7	1.2	0.7	17.5	18.3	4.8	36.0
500.0	12.93	18.8	23.1	29.1	1.2	0.7	17.6	18.3	4.8	36.3
600.0	12.90	18.8	23.3	27.6	1.2	0.7	17.6	18.3	4.8	36.5
700.0	12.88	18.8	23.4	26.5	1.2	0.7	17.9	18.4	4.8	36.1
800.0	12.85	18.8	23.7	25.1	1.2	0.7	17.8	18.4	4.8	35.5
900.0	12.84	18.8	23.8	24.2	1.2	0.7	17.9	18.4	4.8	36.8
1000.0	12.82	18.8	24.1	23.6	1.2	0.7	17.8	18.3	4.8	34.9
1100.0	12.80	18.8	24.4	23.0	1.2	0.7	17.7	18.4	4.8	34.5
1200.0	12.79	18.8	24.5	22.3	1.2	0.7	17.7	18.4	4.8	33.7
1300.0	12.77	18.8	24.7	21.9	1.2	0.7	17.7	18.3	4.8	35.0
1400.0	12.75	18.8	24.8	21.4	1.2	0.7	17.5	18.2	4.8	34.4
1500.0	12.75	18.8	24.8	21.1	1.2	0.7	17.6	18.3	4.8	34.1
1600.0	12.72	18.8	24.8	20.9	1.2	0.7	17.5	18.2	4.8	33.3
1700.0	12.71	18.8	24.6	20.6	1.2	0.8	17.4	18.2	4.8	32.4
1800.0	12.69	18.8	24.2	20.3	1.2	0.8	17.3	18.1	4.8	33.5
1900.0	12.66	18.9	23.7	20.1	1.3	0.8	17.3	18.1	4.8	31.9
2000.0	12.64	18.9	23.0	20.0	1.3	0.8	17.2	18.0	4.8	31.9
2100.0	12.62	18.9	22.2	20.0	1.3	0.8	17.1	18.0	4.9	31.4
2200.0	12.60	18.9	21.3	19.9	1.3	0.8	16.9	17.8	4.8	32.3
2300.0	12.58	18.9	20.4	19.8	1.3	0.8	16.9	17.8	4.9	31.0
2400.0	12.55	18.9	19.4	19.8	1.3	0.8	16.9	17.8	4.9	31.0
2500.0	12.53	18.9	18.5	19.8	1.3	0.8	16.9	17.7	4.9	30.5
2600.0	12.50	18.9	17.7	19.6	1.3	0.8	16.8	17.6	4.9	29.5
2700.0	12.47	18.9	16.8	19.4	1.3	0.8	16.6	17.5	4.9	29.7
2800.0	12.43	19.0	16.1	19.3	1.3	0.8	16.4	17.4	4.9	29.3
2900.0	12.40	19.0	15.4	19.1	1.3	0.8	16.4	17.3	4.9	29.4
3000.0	12.35	19.0	14.7	18.9	1.3	0.8	16.3	17.2	4.9	29.1
3100.0	12.32	19.0	14.1	18.7	1.3	0.8	16.2	17.2	5.0	29.2
3200.0	12.27	19.0	13.5	18.5	1.3	0.8	15.9	16.9	5.0	28.4
3300.0	12.23	19.0	13.0	18.3	1.3	0.8	15.8	16.8	5.0	28.0
3400.0	12.16	19.1	12.5	18.1	1.3	0.8	15.6	16.7	5.1	27.9
3500.0	12.12	19.1	12.1	17.9	1.3	0.8	15.5	16.5	5.1	27.5
3600.0	12.07	19.1	11.7	17.6	1.3	0.8	15.3	16.3	5.1	27.5
3700.0	12.01	19.1	11.4	17.5	1.3	0.8	14.9	16.0	5.1	27.1
3800.0	11.97	19.1	11.1	17.4	1.3	0.8	14.8	16.0	5.1	26.6
3900.0	11.92	19.1	10.8	17.3	1.3	0.9	14.7	15.9	5.1	26.5
4000.0	11.86	19.1	10.6	17.3	1.3	0.9	14.6	15.8	5.2	26.2
4100.0	11.81	19.1	10.3	17.2	1.3	0.9	14.4	15.6	5.2	26.2
4200.0	11.77	19.1	10.1	17.3	1.3	0.9	14.2	15.4	5.2	25.8
4300.0	11.71	19.2	10.0	17.3	1.3	0.9	14.1	15.4	5.2	25.6
4400.0	11.67	19.1	9.8	17.4	1.3	0.9	13.9	15.3	5.3	25.6
4500.0	11.63	19.1	9.7	17.5	1.3	0.9	13.8	15.2	5.3	25.4
4600.0	11.57	19.2	9.5	17.6	1.3	0.9	13.8	15.1	5.3	25.1
4700.0	11.53	19.1	9.5	17.7	1.3	0.9	13.5	14.8	5.4	24.8
4800.0	11.48	19.1	9.3	17.9	1.3	0.9	13.1	14.6	5.3	24.5
4900.0	11.43	19.1	9.3	18.2	1.3	0.9	13.0	14.5	5.4	24.3
5000.0	11.40	19.1	9.2	18.4	1.3	0.9	13.0	14.5	5.4	24.3
5100.0	11.36	19.1	9.2	18.8	1.3	0.9	12.6	14.1	5.4	23.8
5200.0	11.30	19.0	9.2	19.2	1.3	0.9	12.3	13.9	5.4	23.5
5300.0	11.27	19.0	9.2	19.7	1.3	0.9	12.2	13.9	5.4	23.3
5400.0	11.20	19.0	9.2	20.2	1.3	0.9	12.1	13.8	5.4	23.2
5500.0	11.16	19.0	9.2	20.8	1.3	0.9	12.0	13.6	5.5	22.9
5600.0	11.10	19.0	9.2	21.4	1.3	0.9	11.7	13.4	5.5	22.7
5700.0	11.03	18.9	9.3	22.1	1.3	0.9	11.6	13.3	5.5	22.5
5800.0	10.97	18.9	9.4	22.5	1.3	0.9	11.3	13.1	5.5	22.1
5900.0	10.90	18.9	9.5	22.9	1.3	0.9	11.1	12.8	5.6	21.7
6000.0	10.81	18.9	9.6	23.3	1.3	0.9	11.0	12.7	5.6	21.6