

Typical Performance Data

Note: The following data was taken on the Mini-Circuits Characterization Test Board MB-225-84C+ (Figure 2).

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +4.75\text{ V}$ $I_{DD} = 95.6\text{ mA}$ @ Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	Noise Figure	IP3 - Min
					K	B1			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	B1	(dBm)	(dB)	(dBm)
10	24.50	31.37	27.39	20.63	1.31	0.79	20.13	5.56	29.09
50	24.54	31.50	27.37	21.03	1.33	0.80	19.82	5.69	34.97
100	24.51	31.32	27.62	20.55	1.32	0.79	19.90	5.62	33.18
200	24.42	31.20	27.29	19.12	1.31	0.78	20.05	5.54	36.20
300	24.30	30.98	27.36	17.47	1.30	0.77	19.94	5.42	35.03
400	24.12	30.70	27.07	15.96	1.29	0.76	20.00	5.66	34.20
500	23.89	30.47	26.62	14.66	1.28	0.75	19.96	5.62	33.81
600	23.65	30.11	26.27	13.52	1.26	0.74	20.10	5.54	34.64
700	23.37	29.81	25.71	12.63	1.25	0.72	20.00	5.55	36.23
800	23.07	29.53	24.97	11.87	1.24	0.71	19.96	5.53	34.99
900	22.76	29.13	24.42	11.21	1.22	0.70	20.05	5.65	34.29
1000	22.42	28.82	24.00	10.61	1.22	0.69	20.01	5.62	37.30
1200	21.76	27.99	22.86	9.73	1.18	0.66	20.05	5.57	34.61
1400	21.08	27.28	22.08	9.06	1.17	0.64	20.08	5.58	33.72
1600	20.41	26.60	21.18	8.55	1.15	0.62	20.13	5.61	33.27
1800	19.76	25.95	20.50	8.13	1.15	0.61	20.11	5.66	32.18
2000	19.13	25.34	19.83	7.82	1.14	0.60	20.18	5.56	32.80
2200	18.51	24.71	19.33	7.54	1.13	0.58	20.09	5.64	34.30
2400	17.92	24.13	18.75	7.33	1.12	0.57	20.07	5.70	32.81
2600	17.37	23.59	18.34	7.16	1.12	0.57	20.01	5.71	34.49
2800	16.83	23.07	17.90	7.02	1.12	0.56	19.83	5.70	31.80
3000	16.32	22.56	17.52	6.91	1.11	0.56	19.73	5.77	31.29
3200	15.83	22.09	17.20	6.82	1.11	0.55	19.55	5.80	31.73
3400	15.36	21.64	16.90	6.74	1.11	0.55	19.17	5.85	30.34
3600	14.91	21.19	16.69	6.69	1.11	0.55	19.18	5.89	31.46
3800	14.47	20.78	16.41	6.65	1.11	0.55	18.89	5.86	30.87
4000	14.05	20.36	16.12	6.64	1.11	0.55	18.67	6.06	30.32
4200	13.65	19.99	15.83	6.60	1.11	0.55	18.45	6.01	29.64
4400	13.29	19.54	15.64	6.61	1.10	0.55	18.06	6.01	29.97
4600	12.89	19.19	15.28	6.61	1.10	0.55	17.89	6.05	28.96
4800	12.54	18.86	15.05	6.59	1.11	0.55	17.60	6.17	29.57
5000	12.19	18.52	14.78	6.61	1.11	0.56	17.22	6.14	28.50
5200	11.84	18.18	14.43	6.60	1.11	0.56	17.02	6.25	28.75
5400	11.50	17.87	14.21	6.62	1.11	0.56	16.71	6.30	27.92
5600	11.17	17.58	13.89	6.62	1.12	0.57	16.34	6.39	27.31
5800	10.84	17.29	13.56	6.60	1.12	0.57	16.16	6.51	27.41
6000	10.51	17.02	13.39	6.61	1.12	0.57	15.70	6.59	26.79

Typical Performance Data

Note: The following data was taken on the Mini-Circuits Characterization Test Board MB-225-84C+ (Figure 2).

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +5\text{ V}$, $I_{DD} = 107.9\text{ mA}$ @ Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	Noise Figure	IP3 - Min
					K	B1			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	B1	(dBm)	(dB)	(dBm)
10	24.58	31.53	25.16	22.51	1.33	0.80	20.96	4.89	33.46
50	24.65	31.60	25.27	22.19	1.33	0.80	20.71	4.99	35.39
100	24.63	31.36	25.60	21.60	1.31	0.79	20.80	4.94	35.08
200	24.54	31.35	25.83	19.71	1.32	0.79	20.98	4.90	35.36
300	24.42	31.06	25.70	17.91	1.30	0.77	20.84	4.84	36.54
400	24.24	30.82	25.43	16.24	1.29	0.76	20.93	5.00	35.37
500	24.02	30.60	25.53	14.86	1.28	0.75	20.91	4.92	33.99
600	23.76	30.30	25.17	13.68	1.27	0.74	21.06	4.88	34.29
700	23.47	29.90	24.69	12.64	1.25	0.72	20.98	4.87	35.99
800	23.17	29.60	24.12	11.86	1.24	0.71	20.93	4.94	35.54
900	22.84	29.26	23.65	11.23	1.23	0.70	21.02	4.96	35.42
1000	22.54	28.86	23.18	10.64	1.21	0.68	21.00	4.94	33.98
1200	21.85	28.18	22.09	9.70	1.20	0.66	21.07	4.95	34.22
1400	21.15	27.39	21.34	9.02	1.17	0.64	20.98	4.91	34.06
1600	20.48	26.71	20.60	8.52	1.16	0.62	21.11	4.93	36.07
1800	19.83	26.02	20.26	8.09	1.15	0.60	21.02	4.95	35.23
2000	19.21	25.35	19.84	7.77	1.13	0.59	21.00	4.95	35.48
2200	18.60	24.72	19.56	7.50	1.12	0.57	20.97	4.94	34.30
2400	18.02	24.14	19.15	7.33	1.12	0.57	20.86	4.97	32.08
2600	17.48	23.59	18.69	7.13	1.11	0.56	20.79	4.99	32.24
2800	16.94	23.03	18.13	7.04	1.11	0.55	20.57	5.09	32.04
3000	16.44	22.53	17.63	6.86	1.10	0.54	20.44	5.06	32.16
3200	15.94	22.06	17.12	6.78	1.10	0.54	20.22	5.07	32.20
3400	15.47	21.62	16.69	6.66	1.10	0.54	19.80	5.20	31.84
3600	15.02	21.14	16.37	6.61	1.10	0.53	19.77	5.21	32.29
3800	14.59	20.71	16.04	6.54	1.09	0.53	19.49	5.18	30.43
4000	14.16	20.31	15.73	6.51	1.09	0.53	19.25	5.22	31.44
4200	13.77	19.89	15.46	6.54	1.09	0.53	19.08	5.17	31.73
4400	13.39	19.50	15.28	6.50	1.09	0.53	18.62	5.36	31.34
4600	13.00	19.14	15.08	6.55	1.09	0.54	18.43	5.37	30.87
4800	12.65	18.79	14.94	6.50	1.09	0.54	18.16	5.37	31.30
5000	12.31	18.43	14.72	6.52	1.09	0.54	17.77	5.36	30.45
5200	11.98	18.09	14.54	6.45	1.08	0.54	17.55	5.54	30.23
5400	11.62	17.79	14.27	6.43	1.09	0.54	17.24	5.56	30.39
5600	11.29	17.48	13.99	6.38	1.09	0.54	16.86	5.59	29.50
5800	10.95	17.22	13.68	6.31	1.09	0.54	16.68	5.67	29.50
6000	10.64	16.91	13.31	6.29	1.09	0.54	16.24	5.76	28.87

Typical Performance Data

Note: The following data was taken on the Mini-Circuits Characterization Test Board MB-225-84C+ (Figure 2).

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +5.25\text{ V}$, $I_{DD} = 122.4\text{ mA}$ @ Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	Noise Figure	IP3 - Min
					K	B1			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	B1	(dBm)	(dB)	(dBm)
10	24.66	31.80	23.76	23.92	1.34	0.81	21.74	4.75	33.32
50	24.73	31.63	23.99	23.18	1.32	0.80	21.52	5.15	34.24
100	24.72	31.60	24.31	22.52	1.32	0.80	21.58	5.05	36.54
200	24.63	31.45	24.55	20.26	1.32	0.79	21.80	5.00	34.70
300	24.51	31.21	24.46	18.25	1.31	0.78	21.66	4.99	37.38
400	24.32	30.97	24.31	16.40	1.30	0.77	21.77	5.08	36.63
500	24.10	30.63	24.55	14.99	1.28	0.75	21.75	5.07	36.18
600	23.84	30.38	24.31	13.76	1.27	0.74	21.90	4.98	35.34
700	23.55	30.05	23.96	12.71	1.26	0.73	21.82	4.99	36.54
800	23.24	29.80	23.50	11.90	1.25	0.72	21.76	4.97	36.54
900	22.90	29.38	23.12	11.27	1.24	0.70	21.88	5.11	34.96
1000	22.60	28.98	22.75	10.67	1.22	0.68	21.88	5.00	37.46
1200	21.91	28.25	21.79	9.72	1.20	0.66	21.95	5.05	36.75
1400	21.20	27.50	21.14	9.05	1.18	0.64	21.77	5.02	35.53
1600	20.52	26.75	20.46	8.54	1.16	0.62	21.94	5.05	36.03
1800	19.87	26.07	20.21	8.11	1.15	0.60	21.79	5.10	34.95
2000	19.24	25.43	19.78	7.79	1.14	0.59	21.74	5.11	33.67
2200	18.64	24.79	19.55	7.52	1.13	0.57	21.70	5.15	35.37
2400	18.06	24.22	19.15	7.35	1.13	0.57	21.52	5.14	34.43
2600	17.51	23.61	18.68	7.14	1.12	0.55	21.42	5.07	33.52
2800	16.98	23.10	18.13	7.04	1.12	0.55	21.15	5.25	34.26
3000	16.47	22.56	17.62	6.87	1.11	0.54	21.01	5.24	33.04
3200	15.97	22.10	17.14	6.79	1.11	0.54	20.75	5.23	34.55
3400	15.50	21.62	16.73	6.66	1.10	0.53	20.31	4.97	32.70
3600	15.05	21.18	16.39	6.61	1.10	0.53	20.30	5.31	32.04
3800	14.62	20.74	16.06	6.53	1.09	0.53	20.03	5.34	32.92
4000	14.19	20.34	15.77	6.51	1.09	0.53	19.77	5.48	33.34
4200	13.81	19.94	15.46	6.52	1.09	0.53	19.56	5.41	33.65
4400	13.42	19.53	15.31	6.48	1.09	0.53	19.11	5.49	32.23
4600	13.03	19.19	15.11	6.52	1.09	0.54	18.91	5.52	31.69
4800	12.68	18.81	14.99	6.47	1.09	0.53	18.66	5.50	32.39
5000	12.35	18.45	14.77	6.48	1.09	0.54	18.27	5.53	31.27
5200	12.02	18.09	14.57	6.41	1.08	0.53	18.05	5.70	31.35
5400	11.67	17.78	14.30	6.38	1.09	0.53	17.72	5.68	30.89
5600	11.34	17.48	14.01	6.32	1.09	0.53	17.35	5.73	30.40
5800	11.00	17.21	13.70	6.25	1.09	0.53	17.20	5.93	30.59
6000	10.69	16.91	13.33	6.21	1.09	0.53	16.81	5.96	29.64

Typical Performance Data

Note: The following data was taken on the Mini-Circuits Characterization Test Board MB-225-84C+ (Figure 2).

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +5\text{ V}$, $I_{DD} = 102.5\text{ mA}$ @ Temperature = -55 degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	Noise Figure	IP3 - Min
					K	B1			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	B1	(dBm)	(dB)	(dBm)
10	24.73	32.14	23.44	23.98	1.37	0.82	20.92	4.03	30.05
50	24.80	31.91	23.81	23.09	1.34	0.81	20.68	4.33	32.81
100	24.80	31.75	24.10	22.45	1.33	0.80	20.77	4.26	35.13
200	24.71	31.63	24.43	20.20	1.32	0.79	20.96	4.24	35.99
300	24.58	31.53	24.11	18.25	1.32	0.79	20.86	4.19	34.87
400	24.40	31.23	23.89	16.47	1.31	0.78	20.92	4.21	33.78
500	24.19	30.97	23.93	15.05	1.29	0.76	20.87	4.31	35.13
600	23.94	30.52	23.74	13.85	1.27	0.74	21.01	4.24	34.52
700	23.65	30.09	23.28	12.78	1.24	0.72	20.92	4.17	34.10
800	23.35	29.82	22.68	11.97	1.24	0.71	20.87	4.19	34.78
900	23.02	29.47	22.34	11.36	1.23	0.70	20.95	4.25	33.80
1000	22.73	29.15	21.89	10.74	1.22	0.69	20.91	4.30	34.52
1200	22.04	28.31	20.96	9.77	1.19	0.66	20.95	4.35	36.05
1400	21.35	27.55	20.35	9.10	1.17	0.63	20.97	4.30	33.13
1600	20.68	26.83	19.79	8.59	1.15	0.61	21.07	4.22	32.82
1800	20.03	26.16	19.58	8.15	1.14	0.60	21.03	4.29	33.43
2000	19.41	25.50	19.34	7.84	1.13	0.58	21.09	4.31	33.99
2200	18.83	24.83	19.15	7.57	1.12	0.56	21.08	4.36	36.51
2400	18.26	24.26	18.86	7.41	1.11	0.55	21.03	4.37	32.53
2600	17.72	23.68	18.51	7.20	1.10	0.54	20.98	4.43	33.79
2800	17.19	23.17	18.04	7.09	1.10	0.53	20.83	4.40	33.43
3000	16.69	22.66	17.58	6.91	1.10	0.52	20.76	4.39	32.67
3200	16.20	22.20	17.13	6.80	1.10	0.52	20.54	4.43	32.41
3400	15.74	21.73	16.77	6.67	1.09	0.51	20.17	4.49	32.02
3600	15.30	21.28	16.50	6.59	1.09	0.51	20.24	4.59	32.42
3800	14.87	20.87	16.22	6.49	1.08	0.51	19.94	4.53	32.12
4000	14.46	20.42	15.98	6.44	1.07	0.50	19.79	4.63	31.82
4200	14.08	20.04	15.77	6.46	1.08	0.51	19.64	4.68	31.68
4400	13.70	19.66	15.69	6.40	1.07	0.50	19.22	4.70	30.97
4600	13.34	19.28	15.55	6.45	1.07	0.51	19.09	4.74	31.05
4800	13.00	18.92	15.52	6.39	1.07	0.50	18.88	4.74	32.65
5000	12.68	18.56	15.33	6.39	1.07	0.50	18.47	4.87	30.96
5200	12.36	18.23	15.20	6.32	1.06	0.50	18.33	4.91	30.95
5400	12.02	17.90	14.94	6.30	1.06	0.50	17.98	4.92	31.39
5600	11.71	17.62	14.66	6.22	1.06	0.49	17.61	4.97	30.41
5800	11.38	17.33	14.34	6.13	1.06	0.49	17.49	5.07	31.01
6000	11.09	17.04	13.97	6.09	1.06	0.49	17.00	5.24	29.40

Typical Performance Data

Note: The following data was taken on the Mini-Circuits Characterization Test Board MB-225-84C+ (Figure 2).

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +5\text{ V}$, $I_{DD} = 114.9\text{ mA}$ @ Temperature = +105degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	Noise Figure	IP3 - Min
					K	B1			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	B1	(dBm)	(dB)	(dBm)
10	24.41	31.38	26.40	21.44	1.33	0.80	20.95	5.58	33.40
50	24.46	31.35	27.00	21.29	1.32	0.79	20.75	5.75	33.29
100	24.45	31.25	27.04	21.03	1.32	0.79	20.78	5.74	34.73
200	24.36	31.16	27.08	19.32	1.32	0.78	20.98	5.63	34.08
300	24.21	30.84	27.28	17.39	1.30	0.77	20.84	5.68	34.34
400	24.03	30.64	27.30	15.80	1.30	0.76	20.94	5.67	35.64
500	23.80	30.46	27.22	14.49	1.29	0.75	20.91	5.66	35.34
600	23.54	30.10	26.94	13.32	1.27	0.74	21.06	5.61	35.36
700	23.23	29.75	26.35	12.35	1.26	0.72	20.98	5.62	35.34
800	22.92	29.42	25.58	11.56	1.25	0.71	20.93	5.61	35.34
900	22.57	29.04	25.09	10.97	1.23	0.70	21.04	5.70	35.59
1000	22.26	28.71	24.48	10.40	1.22	0.69	21.03	5.70	34.52
1200	21.55	27.98	23.10	9.50	1.20	0.67	21.11	5.65	35.79
1400	20.83	27.25	22.03	8.86	1.18	0.65	20.93	5.67	33.95
1600	20.13	26.52	20.97	8.37	1.17	0.63	21.09	5.74	36.09
1800	19.46	25.87	20.31	7.96	1.16	0.62	20.94	5.66	34.66
2000	18.81	25.18	19.63	7.65	1.14	0.61	20.82	5.80	34.29
2200	18.18	24.56	19.19	7.39	1.13	0.59	20.74	5.75	34.56
2400	17.57	23.98	18.62	7.23	1.13	0.59	20.52	5.82	32.81
2600	17.00	23.46	18.05	7.06	1.13	0.58	20.36	5.81	32.34
2800	16.44	22.89	17.51	6.99	1.13	0.58	20.06	5.84	33.34
3000	15.91	22.38	16.91	6.87	1.12	0.58	19.84	5.85	31.55
3200	15.39	21.95	16.43	6.84	1.13	0.58	19.57	5.88	31.43
3400	14.90	21.47	15.99	6.77	1.13	0.58	19.11	5.92	31.47
3600	14.42	21.03	15.61	6.76	1.13	0.58	19.01	5.99	30.96
3800	13.96	20.60	15.21	6.73	1.13	0.59	18.65	6.07	31.68
4000	13.51	20.20	14.89	6.74	1.14	0.59	18.34	6.17	30.60
4200	13.08	19.81	14.55	6.79	1.14	0.60	18.06	6.17	30.15
4400	12.65	19.41	14.32	6.76	1.14	0.60	17.60	6.19	30.23
4600	12.23	19.10	14.00	6.82	1.15	0.61	17.36	6.25	29.61
4800	11.85	18.76	13.82	6.78	1.16	0.61	17.02	6.27	29.18
5000	11.47	18.42	13.57	6.81	1.17	0.62	16.68	6.32	29.31
5200	11.09	18.09	13.33	6.76	1.17	0.62	16.35	6.39	28.72
5400	10.70	17.79	13.05	6.77	1.18	0.62	16.06	6.50	28.82
5600	10.35	17.48	12.78	6.75	1.19	0.62	15.74	6.51	27.87
5800	9.96	17.23	12.52	6.72	1.19	0.63	15.65	6.64	27.50
6000	9.62	16.93	12.15	6.71	1.20	0.63	15.16	6.67	27.39

Typical Performance Data

Note: The following data was taken on the Mini-Circuits Evaluation Board TB-LEE1-84C+ (Figure 3).

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +5\text{ V}$, $I_{DD} = 101.1\text{ mA}$ @ Temperature = -55degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	Noise Figure	IP3 - Min
					K	B1			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	B1	(dBm)	(dB)	(dBm)
10	24.61	32.69	16.85	18.47	1.43	0.84	19.73	4.43	28.14
50	24.75	31.81	24.00	24.21	1.34	0.81	20.51	4.42	32.13
100	24.71	31.81	24.60	22.76	1.34	0.81	20.43	4.41	35.21
200	24.61	31.69	24.97	19.81	1.33	0.80	20.53	4.36	36.60
300	24.47	31.42	24.78	17.49	1.31	0.79	20.57	4.36	34.41
400	24.27	31.23	24.71	15.67	1.30	0.78	20.66	4.32	36.07
500	24.01	30.90	24.75	14.26	1.29	0.76	20.54	4.39	35.03
600	23.73	30.70	24.85	13.11	1.28	0.75	20.44	4.36	34.53
700	23.46	30.26	24.73	12.11	1.26	0.73	20.48	4.32	33.79
800	23.11	30.00	24.31	11.44	1.25	0.72	20.37	4.37	36.45
900	22.81	29.59	24.59	10.71	1.23	0.70	20.46	4.26	35.71
1000	22.47	29.23	24.75	10.23	1.22	0.69	20.41	4.46	33.33
1200	21.80	28.47	24.77	9.45	1.20	0.66	20.37	4.42	34.03
1400	21.14	27.67	25.35	9.02	1.17	0.64	20.52	4.36	34.03
1600	20.53	26.94	25.97	8.74	1.16	0.63	20.69	4.44	34.57
1800	19.92	26.21	26.84	8.60	1.14	0.62	20.69	4.45	35.43
2000	19.31	25.52	26.61	8.51	1.13	0.61	20.81	4.44	34.54
2200	18.79	24.83	26.91	8.49	1.12	0.60	20.96	4.50	33.90
2400	18.18	24.25	25.52	8.31	1.12	0.60	20.92	4.57	33.47
2600	17.78	23.52	24.10	8.42	1.10	0.58	20.99	4.61	32.95
2800	17.33	22.95	22.94	8.43	1.09	0.57	21.13	4.70	34.23
3000	16.86	22.41	21.48	8.35	1.09	0.56	20.93	4.69	33.84
3200	16.43	21.86	20.08	8.35	1.08	0.55	20.90	4.77	33.70
3400	15.98	21.39	18.73	8.18	1.08	0.54	20.65	4.93	33.68
3600	15.54	20.98	17.19	8.12	1.08	0.54	20.21	4.98	32.76
3800	15.09	20.57	15.94	7.92	1.07	0.54	20.23	4.96	32.97
4000	14.64	20.21	14.65	7.71	1.07	0.53	19.72	5.10	33.45
4200	14.22	19.88	13.53	7.43	1.07	0.53	19.59	5.15	32.51
4400	13.76	19.59	12.57	7.18	1.07	0.53	19.32	5.22	31.84
4600	13.32	19.28	11.60	6.95	1.06	0.53	18.80	5.32	31.77
4800	12.89	19.01	10.80	6.80	1.06	0.53	18.77	5.43	31.43
5000	12.47	18.76	10.13	6.74	1.06	0.55	18.36	5.48	31.84
5200	12.07	18.51	9.48	6.79	1.06	0.57	18.13	5.63	30.87
5400	11.68	18.26	8.96	6.97	1.07	0.60	17.87	5.68	30.62
5600	11.28	18.04	8.44	7.23	1.07	0.64	17.45	5.73	29.79
5800	10.87	17.88	7.98	7.61	1.09	0.68	17.20	5.81	30.97
6000	10.42	17.73	7.58	8.08	1.11	0.73	16.71	5.82	29.80

Typical Performance Data

Note: The following data was taken on the Mini-Circuits Evaluation Board TB-LEE1-84C+ (Figure 3).

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +5\text{ V}$, $I_{DD} = 105.4\text{ mA}$ @ Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	Noise Figure	IP3 - Min
					K	B1			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	B1	(dBm)	(dB)	(dBm)
10	24.46	32.04	17.39	19.78	1.38	0.82	19.70	5.16	30.28
50	24.54	31.56	25.65	23.03	1.33	0.80	20.54	5.14	35.99
100	24.53	31.49	26.34	21.77	1.33	0.80	20.43	5.08	35.67
200	24.41	31.29	26.71	19.30	1.31	0.79	20.55	5.05	37.35
300	24.25	31.21	26.68	17.16	1.31	0.78	20.57	5.02	36.27
400	24.03	30.97	26.71	15.39	1.30	0.77	20.70	5.09	36.27
500	23.79	30.74	26.60	14.06	1.29	0.76	20.58	5.08	35.22
600	23.50	30.46	26.77	12.92	1.28	0.75	20.51	5.07	36.27
700	23.20	30.13	26.75	11.96	1.27	0.73	20.56	5.04	35.63
800	22.86	29.81	26.44	11.22	1.26	0.72	20.47	5.11	37.39
900	22.54	29.42	26.85	10.57	1.24	0.70	20.61	5.11	34.40
1000	22.22	29.04	27.00	10.10	1.22	0.69	20.48	5.12	34.49
1200	21.53	28.32	27.18	9.35	1.20	0.67	20.53	5.12	34.15
1400	20.85	27.59	28.02	8.90	1.18	0.65	20.63	5.07	33.88
1600	20.23	26.82	28.77	8.64	1.16	0.64	20.77	5.10	34.88
1800	19.61	26.08	29.80	8.50	1.15	0.63	20.79	5.15	36.23
2000	19.01	25.38	29.50	8.43	1.14	0.62	20.89	5.19	34.05
2200	18.47	24.74	29.92	8.45	1.13	0.62	20.88	5.19	32.75
2400	17.86	24.18	26.49	8.30	1.13	0.62	20.83	5.21	33.22
2600	17.44	23.46	25.45	8.49	1.11	0.60	20.80	5.26	32.88
2800	17.00	22.83	23.92	8.54	1.10	0.59	20.88	5.28	33.37
3000	16.52	22.33	22.07	8.50	1.10	0.59	20.67	5.32	32.91
3200	16.08	21.78	20.30	8.53	1.09	0.59	20.58	5.37	33.08
3400	15.61	21.32	18.73	8.36	1.09	0.58	20.28	5.49	32.89
3600	15.15	20.89	17.01	8.28	1.09	0.58	19.87	5.46	32.71
3800	14.69	20.48	15.61	8.04	1.08	0.57	19.82	5.65	32.99
4000	14.21	20.16	14.27	7.82	1.09	0.57	19.29	5.74	33.14
4200	13.75	19.86	13.08	7.52	1.09	0.57	19.04	5.78	31.14
4400	13.25	19.57	12.08	7.29	1.09	0.57	18.77	5.89	30.72
4600	12.78	19.31	11.09	7.08	1.09	0.58	18.22	6.02	30.83
4800	12.31	19.05	10.31	6.97	1.09	0.59	18.02	6.02	30.70
5000	11.86	18.81	9.65	6.95	1.09	0.61	17.62	6.16	30.55
5200	11.43	18.57	8.99	7.05	1.10	0.64	17.30	6.25	30.56
5400	11.01	18.37	8.48	7.29	1.11	0.68	17.09	6.32	29.88
5600	10.56	18.18	7.97	7.63	1.12	0.72	16.63	6.38	29.13
5800	10.11	17.99	7.53	8.08	1.14	0.77	16.31	6.49	29.22
6000	9.62	17.90	7.19	8.67	1.17	0.82	15.83	6.54	28.05

Typical Performance Data

Note: The following data was taken on the Mini-Circuits Evaluation Board TB-LEE1-84C+ (Figure 3).

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +5\text{ V}$, $I_{DD} = 110.9\text{ mA}$ @ Temperature = +105degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	Noise Figure	IP3 - Min
					K	B1			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	B1	(dBm)	(dB)	(dBm)
10	24.17	31.48	17.91	20.67	1.36	0.81	19.66	5.92	28.05
50	24.34	31.26	27.74	22.02	1.32	0.80	20.55	5.83	32.94
100	24.31	31.25	28.47	21.13	1.32	0.79	20.42	5.82	34.71
200	24.19	31.18	28.48	18.86	1.32	0.79	20.53	5.79	34.75
300	24.03	30.96	28.68	16.69	1.31	0.78	20.54	5.75	36.15
400	23.79	30.77	29.45	15.00	1.30	0.77	20.68	5.77	33.40
500	23.53	30.49	29.53	13.70	1.29	0.76	20.56	5.79	34.20
600	23.23	30.26	29.81	12.61	1.28	0.75	20.52	5.75	34.75
700	22.92	29.92	29.94	11.69	1.27	0.73	20.56	5.72	35.66
800	22.58	29.61	29.96	10.95	1.26	0.72	20.50	5.73	35.83
900	22.25	29.25	30.27	10.34	1.24	0.71	20.65	5.84	36.05
1000	21.89	28.88	30.48	9.88	1.23	0.70	20.47	5.85	34.84
1200	21.20	28.10	30.66	9.17	1.20	0.67	20.61	5.84	36.24
1400	20.50	27.35	31.13	8.75	1.18	0.66	20.65	5.85	32.97
1600	19.84	26.64	30.67	8.49	1.17	0.65	20.78	5.87	33.73
1800	19.20	25.90	30.65	8.37	1.15	0.64	20.78	5.93	34.78
2000	18.58	25.24	29.18	8.34	1.15	0.64	20.86	5.86	36.69
2200	18.01	24.58	28.01	8.40	1.14	0.64	20.64	5.92	32.91
2400	17.40	24.04	24.59	8.32	1.14	0.65	20.55	5.99	34.13
2600	16.94	23.29	23.77	8.56	1.13	0.64	20.42	6.04	32.97
2800	16.48	22.69	22.33	8.69	1.12	0.63	20.39	6.03	33.67
3000	15.99	22.16	20.57	8.72	1.12	0.63	20.15	6.12	33.20
3200	15.51	21.63	18.95	8.78	1.11	0.63	19.97	6.19	33.43
3400	15.01	21.19	17.44	8.64	1.12	0.63	19.60	6.32	32.30
3600	14.51	20.78	15.81	8.54	1.12	0.63	19.17	6.31	32.11
3800	13.99	20.42	14.49	8.27	1.12	0.63	18.90	6.42	31.46
4000	13.47	20.07	13.23	8.03	1.12	0.63	18.36	6.50	30.98
4200	12.94	19.77	12.09	7.75	1.13	0.64	18.04	6.58	30.09
4400	12.40	19.56	11.15	7.56	1.14	0.65	17.65	6.69	30.33
4600	11.87	19.33	10.24	7.41	1.15	0.67	17.13	6.83	28.92
4800	11.36	19.11	9.51	7.38	1.16	0.69	16.83	6.88	28.78
5000	10.86	18.88	8.89	7.45	1.16	0.71	16.44	6.95	29.10
5200	10.38	18.67	8.29	7.64	1.18	0.75	15.98	7.14	28.50
5400	9.90	18.49	7.82	7.96	1.19	0.79	15.75	7.21	28.39
5600	9.41	18.32	7.37	8.42	1.22	0.84	15.44	7.32	27.43
5800	8.91	18.17	7.00	9.00	1.25	0.89	15.07	7.53	27.20
6000	8.41	18.08	6.72	9.67	1.29	0.94	14.67	7.51	26.30