

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +4.75\text{ V}$, $V_{EN} = +4.75\text{ V}$, $I_{DD} = 71\text{ mA}$, $I_{EN} = 2.0\text{ mA}$ @ Temperature = $+25^\circ\text{C}$

See TSY-83LN+ for additional test data.

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	3dB Comp. Output	Noise Figure	IP-3 Output Pout = +0
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)	(dBm)
200	15.2	-32.7	-1.9	-4.1	1.4	0.9	17.2	20.8	19.8	30.2
300	19.9	-28.0	-5.6	-8.2	1.2	0.8	19.0	20.8	2.6	31.3
400	21.4	-26.5	-11.4	-14.2	1.1	0.7	19.3	21.2	1.9	31.4
500	21.8	-26.2	-17.6	-18.3	1.1	0.6	19.8	21.4	1.6	33.3
600	21.9	-26.2	-21.0	-18.2	1.1	0.6	20.1	21.6	1.5	30.6
700	21.9	-26.1	-19.8	-17.1	1.1	0.6	20.4	21.8	1.4	32.5
800	21.9	-26.1	-18.6	-16.4	1.1	0.6	20.5	21.9	1.4	31.3
900	21.9	-26.2	-17.8	-16.3	1.1	0.6	20.6	22.0	1.3	32.5
1000	21.9	-26.3	-17.2	-16.3	1.1	0.6	20.6	22.1	1.3	32.6
1100	21.9	-26.2	-16.9	-16.5	1.1	0.6	20.7	22.0	1.3	31.6
1200	21.9	-26.3	-16.8	-17.0	1.1	0.6	20.7	22.1	1.3	32.2
1300	21.9	-26.3	-16.9	-17.4	1.1	0.6	20.7	22.2	1.3	31.2
1400	21.9	-26.3	-16.9	-18.2	1.1	0.6	20.7	22.1	1.3	30.7
1500	21.9	-26.5	-16.9	-19.3	1.1	0.7	20.6	22.3	1.3	30.4
1600	21.9	-26.5	-17.0	-20.5	1.1	0.7	20.7	22.2	1.4	31.0
1700	21.9	-26.6	-16.9	-21.7	1.1	0.7	20.7	22.5	1.4	31.0
1800	21.9	-26.6	-17.0	-23.5	1.1	0.7	20.7	22.3	1.4	29.8
1900	21.9	-26.7	-16.8	-25.6	1.2	0.7	20.6	22.3	1.4	29.6
2000	21.9	-26.7	-16.4	-28.6	1.2	0.7	20.4	22.1	1.4	29.6
2100	21.9	-26.6	-15.9	-31.0	1.2	0.7	20.4	22.5	1.5	31.1
2200	21.9	-26.9	-15.3	-30.5	1.2	0.7	20.4	22.4	1.5	31.0
2300	21.9	-26.9	-14.7	-27.8	1.2	0.7	20.4	22.4	1.5	30.0
2400	21.9	-27.1	-14.2	-25.7	1.2	0.7	20.3	22.7	1.5	28.7
2500	21.9	-27.2	-13.8	-23.5	1.2	0.8	20.1	22.8	1.6	29.2
2600	21.9	-27.1	-13.3	-21.5	1.2	0.7	19.9	22.9	1.6	29.7
2700	21.8	-27.3	-13.1	-20.5	1.2	0.8	19.8	22.6	1.6	28.6
2800	21.8	-27.5	-12.5	-19.1	1.2	0.8	19.7	22.5	1.6	29.1
2900	21.8	-27.6	-12.3	-18.5	1.2	0.8	19.6	22.3	1.7	27.6
3000	21.7	-27.5	-11.9	-17.5	1.2	0.8	19.3	22.4	1.7	27.9
3100	21.7	-27.5	-11.6	-16.7	1.2	0.8	19.0	22.5	1.7	27.7
3200	21.7	-27.4	-11.3	-16.1	1.2	0.8	18.8	22.1	1.6	28.6
3300	21.7	-27.6	-11.1	-15.6	1.2	0.8	18.7	22.0	1.6	27.1
3400	21.7	-27.6	-10.8	-15.2	1.2	0.8	18.6	22.0	1.6	27.3
3500	21.7	-27.7	-10.7	-14.8	1.2	0.8	18.6	22.5	1.6	27.2
3600	21.7	-27.7	-10.7	-14.6	1.2	0.8	18.6	22.8	1.6	27.4
3700	21.8	-27.8	-10.7	-14.5	1.2	0.8	18.7	22.3	1.6	26.8
3800	21.8	-27.8	-10.7	-14.6	1.2	0.8	18.9	22.3	1.6	26.8
3900	21.8	-27.8	-10.6	-14.8	1.2	0.8	19.2	22.5	1.6	28.0
4000	21.9	-27.9	-10.5	-14.9	1.2	0.8	19.5	22.7	1.6	26.1
4100	21.9	-28.0	-10.6	-15.1	1.2	0.8	19.5	23.0	1.6	26.8
4200	22.0	-28.1	-10.8	-15.2	1.2	0.8	19.5	22.8	1.6	26.4
4300	22.0	-28.1	-11.1	-15.4	1.2	0.8	19.6	22.7	1.6	27.3
4400	22.0	-28.3	-11.4	-15.6	1.3	0.8	19.7	22.8	1.6	27.2
4500	22.0	-28.1	-11.8	-16.3	1.2	0.8	19.9	22.9	1.6	28.3
4600	22.0	-28.0	-12.5	-17.0	1.2	0.8	19.9	23.2	1.6	27.3
4700	22.1	-28.0	-12.7	-17.8	1.2	0.8	19.6	23.0	1.6	26.4
4800	22.2	-28.0	-12.8	-18.4	1.2	0.8	19.5	22.9	1.6	26.5
4900	22.3	-27.9	-13.0	-19.2	1.2	0.8	19.7	23.2	1.6	27.6
5000	22.4	-28.0	-13.3	-20.0	1.2	0.8	19.9	23.2	1.6	27.8
5100	22.5	-28.2	-13.8	-20.6	1.2	0.8	19.7	23.0	1.6	27.3
5200	22.6	-28.3	-14.2	-21.0	1.2	0.8	19.3	22.7	1.6	26.8
5300	22.7	-28.4	-14.8	-21.5	1.2	0.8	19.3	22.5	1.6	25.9
5400	22.7	-28.6	-15.9	-21.2	1.3	0.8	19.5	22.6	1.6	26.2
5500	22.7	-28.8	-17.3	-21.2	1.3	0.8	19.9	22.8	1.6	26.6
5600	22.6	-28.7	-19.9	-20.8	1.3	0.8	20.1	23.0	1.7	27.4
5700	22.6	-28.6	-22.2	-20.9	1.3	0.8	19.7	22.9	1.6	26.8
5800	22.6	-28.4	-23.7	-21.3	1.3	0.8	19.1	22.7	1.7	26.0
5900	22.7	-28.3	-24.8	-21.6	1.3	0.8	18.8	22.6	1.7	25.2
6000	22.8	-28.5	-24.4	-22.6	1.3	0.8	18.6	22.5	1.7	25.9
6100	23.0	-28.4	-22.9	-24.3	1.2	0.8	18.7	22.3	1.7	25.4
6200	23.1	-28.6	-20.7	-25.8	1.3	0.8	18.8	21.9	1.7	25.5
6300	23.2	-28.8	-18.7	-26.1	1.3	0.8	18.9	21.6	1.8	26.2
6400	23.2	-29.0	-16.9	-25.3	1.3	0.8	18.7	21.4	1.8	25.2
6500	23.2	-29.2	-15.3	-23.0	1.3	0.8	18.4	21.0	1.9	25.2
6600	23.2	-29.4	-13.6	-20.9	1.3	0.8	17.9	20.8	1.9	24.3
6700	23.1	-29.9	-11.8	-18.3	1.3	0.9	17.6	20.4	1.9	24.2
6800	22.8	-30.4	-10.5	-16.2	1.4	0.9	17.7	20.2	2.0	23.9
6900	22.4	-30.8	-10.0	-15.6	1.4	0.9	18.2	19.9	2.1	24.8
7000	22.1	-31.2	-9.4	-15.9	1.5	1.0	18.5	19.6	2.1	25.1
7100	22.4	-30.9	-9.2	-16.0	1.4	1.0	18.3	19.5	2.1	24.1
7200	22.3	-31.0	-8.4	-14.2	1.4	1.0	18.0	19.6	2.1	23.3
7300	22.2	-31.3	-7.9	-13.0	1.5	1.0	17.9	19.7	2.2	23.1
7400	22.1	-31.9	-6.9	-11.5	1.5	1.0	18.2	20.0	2.2	24.3
7500	21.9	-32.3	-6.1	-10.3	1.5	1.0	18.7	19.6	2.3	23.5
7600	21.6	-33.3	-5.4	-9.3	1.6	1.0	19.0	19.8	2.3	23.5
7700	21.1	-34.3	-4.9	-8.4	1.7	1.0	18.8	19.8	2.3	22.3
7800	20.7	-35.5	-4.3	-7.5	1.9	1.0	18.4	19.3	2.4	22.0
7900	20.1	-36.7	-3.9	-6.9	2.0	1.0	18.1	19.3	2.5	21.8
8000	19.3	-38.8	-3.5	-6.3	2.5	1.0	18.0	18.8	2.5	22.4

Typical Performance Data

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Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +4.75\text{ V}$, $V_{EN} = +4.75\text{ V}$, $I_{DD} = 73\text{ mA}$, $I_{EN} = 2.05\text{ mA}$ @ Temperature = $+25^\circ\text{C}$

See TSY-83LN+ for additional test data.

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	3dB Comp. Output	Noise Figure	IP-3 Output Pout = +0
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)	(dBm)
5500	22.2	-29.0	-10.9	-9.7	1.3	0.7	19.9	22.5	1.4	26.7
5600	22.2	-29.0	-11.3	-9.8	1.3	0.7	20.2	22.9	1.4	26.5
5700	22.3	-28.7	-11.5	-10.2	1.2	0.7	20.0	23.0	1.4	26.8
5800	22.4	-28.7	-11.4	-10.6	1.2	0.7	19.3	23.0	1.4	26.1
5900	22.6	-28.6	-11.0	-11.0	1.2	0.7	19.4	22.8	1.4	26.8
6000	22.8	-28.6	-10.8	-11.2	1.2	0.7	19.1	23.0	1.4	26.5
6100	22.9	-28.7	-10.7	-11.3	1.2	0.7	18.5	22.7	1.5	26.2
6200	23.0	-28.8	-10.8	-11.4	1.2	0.7	18.3	22.9	1.5	25.8
6300	23.1	-28.9	-10.7	-11.6	1.2	0.7	17.9	22.5	1.5	24.9
6400	23.2	-29.0	-10.7	-11.7	1.2	0.7	18.2	22.3	1.5	24.6
6500	23.2	-29.2	-10.7	-11.6	1.2	0.7	18.5	22.1	1.5	24.7
6600	23.2	-29.3	-10.9	-11.8	1.2	0.7	19.0	22.1	1.5	25.2
6700	23.2	-29.6	-11.0	-11.8	1.3	0.7	19.4	22.2	1.5	25.4
6800	23.2	-29.5	-11.4	-12.3	1.3	0.8	19.6	22.2	1.6	25.2
6900	23.2	-29.7	-11.7	-12.6	1.3	0.8	19.4	21.8	1.6	25.4
7000	23.3	-29.5	-12.0	-13.2	1.3	0.8	19.6	21.8	1.7	25.3
7100	23.4	-29.5	-12.0	-13.4	1.3	0.8	19.8	21.7	1.6	25.4
7200	23.5	-29.7	-11.8	-13.3	1.3	0.8	19.7	21.6	1.7	26.1
7300	23.5	-29.7	-11.8	-13.4	1.3	0.8	19.5	21.1	1.7	25.7
7400	23.6	-30.0	-11.5	-13.2	1.3	0.8	19.4	20.8	1.7	25.5
7500	23.6	-30.3	-11.3	-13.2	1.3	0.8	19.7	21.0	1.8	25.4
7600	23.6	-30.5	-11.0	-13.2	1.3	0.8	19.3	20.7	1.8	25.9
7700	23.6	-30.9	-10.5	-13.1	1.4	0.8	19.8	20.9	1.9	25.8
7800	23.5	-31.3	-10.1	-13.2	1.4	0.9	19.4	20.6	2.0	26.2
7900	23.3	-31.7	-9.5	-13.4	1.5	0.9	19.2	20.5	2.1	25.9
8000	23.1	-32.1	-8.9	-13.9	1.5	0.9	19.1	20.4	2.2	25.8
8100	22.8	-32.7	-8.2	-14.7	1.6	1.0	19.5	20.7	2.2	25.7
8200	22.4	-33.3	-7.5	-16.3	1.7	1.0	19.3	20.7	2.4	26.1
8300	22.0	-33.5	-7.2	-18.3	1.8	1.1	18.7	20.0	2.5	26.1
8400	21.7	-33.7	-6.7	-20.0	1.8	1.1	18.8	20.1	2.7	26.3
8500	21.5	-33.9	-6.3	-21.4	1.9	1.2	18.3	19.5	2.8	25.5

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +4.75$ V, $V_{EN} = 0$ V, $I_{DD} = 3$ mA, $I_{EN} = 0$ mA @ Temperature = +25°C

See TSY-83LN+ for additional test data.

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dB)
200	-3.3	-3.5	-4.2	-7.2	1.1	0.7	2.5
300	-1.9	-2.1	-6.8	-10.2	1.0	0.5	2.7
400	-1.4	-1.5	-9.3	-12.7	1.0	0.4	1.4
500	-1.1	-1.2	-11.8	-14.9	1.0	0.4	1.7
600	-0.9	-1.1	-14.3	-16.8	1.0	0.4	0.9
700	-0.9	-1.0	-17.1	-18.5	1.0	0.4	0.8
800	-0.8	-1.0	-20.4	-19.5	1.0	0.4	1.0
900	-0.8	-1.0	-24.6	-20.0	1.0	0.4	1.1
1000	-0.8	-1.0	-31.2	-20.4	1.0	0.3	0.6
1100	-0.8	-1.0	-45.2	-20.2	1.0	0.3	0.5
1200	-0.8	-1.0	-31.9	-19.8	1.0	0.4	1.0
1300	-0.8	-1.0	-26.9	-19.2	1.0	0.4	0.9
1400	-0.8	-1.0	-23.9	-18.7	1.0	0.4	1.0
1500	-0.8	-1.0	-21.8	-18.2	1.0	0.4	0.8
1600	-0.8	-1.1	-20.7	-17.7	1.0	0.4	0.7
1700	-0.9	-1.1	-19.6	-17.3	1.0	0.4	1.1
1800	-0.9	-1.1	-19.1	-17.1	1.0	0.4	0.9
1900	-0.9	-1.2	-18.3	-17.1	1.0	0.4	1.1
2000	-0.9	-1.2	-17.7	-17.1	1.0	0.4	1.2
2100	-1.0	-1.2	-17.1	-17.3	1.0	0.4	1.2
2200	-1.0	-1.3	-16.6	-17.5	1.0	0.4	1.2
2300	-1.0	-1.3	-16.3	-18.0	1.0	0.4	1.3
2400	-1.0	-1.4	-16.0	-18.5	1.0	0.5	1.4
2500	-1.0	-1.4	-15.7	-18.8	1.0	0.5	1.3
2600	-1.1	-1.5	-15.7	-19.3	1.0	0.5	1.4
2700	-1.1	-1.5	-15.8	-19.8	1.0	0.5	1.1
2800	-1.1	-1.6	-15.8	-20.5	1.1	0.5	1.4
2900	-1.1	-1.6	-15.8	-21.4	1.1	0.5	1.4
3000	-1.1	-1.6	-15.8	-22.4	1.1	0.5	1.4
3100	-1.1	-1.6	-15.8	-23.7	1.1	0.5	1.7
3200	-1.1	-1.6	-15.8	-25.2	1.0	0.5	1.4
3300	-1.1	-1.6	-15.8	-27.4	1.0	0.5	1.7
3400	-1.1	-1.6	-15.8	-30.9	1.0	0.5	1.5
3500	-1.2	-1.6	-15.7	-34.5	1.1	0.5	1.2
3600	-1.2	-1.6	-15.7	-32.4	1.1	0.5	1.4
3700	-1.2	-1.6	-15.4	-28.3	1.1	0.5	1.1
3800	-1.2	-1.6	-15.2	-24.6	1.1	0.5	1.4
3900	-1.2	-1.6	-14.8	-22.1	1.1	0.5	1.4
4000	-1.2	-1.7	-14.4	-20.5	1.1	0.5	1.7
4100	-1.3	-1.7	-14.0	-19.0	1.1	0.5	1.9
4200	-1.3	-1.7	-13.6	-17.7	1.1	0.5	1.3
4300	-1.4	-1.8	-13.1	-16.6	1.1	0.6	1.8
4400	-1.4	-1.8	-12.7	-15.5	1.1	0.6	1.7
4500	-1.4	-1.9	-12.1	-14.5	1.1	0.5	1.8
4600	-1.5	-1.9	-11.6	-13.6	1.1	0.5	2.0
4700	-1.5	-1.9	-11.2	-13.0	1.1	0.5	1.7
4800	-1.5	-2.0	-10.8	-12.4	1.1	0.5	1.9
4900	-1.5	-2.0	-10.5	-11.9	1.1	0.5	1.8
5000	-1.6	-2.1	-10.2	-11.4	1.1	0.5	2.0
5100	-1.6	-2.1	-10.0	-11.0	1.1	0.5	1.5
5200	-1.6	-2.2	-9.8	-10.7	1.1	0.5	1.6
5300	-1.7	-2.2	-9.5	-10.5	1.1	0.5	1.6
5400	-1.7	-2.3	-9.4	-10.2	1.1	0.5	1.6
5500	-1.8	-2.4	-9.2	-10.0	1.1	0.5	2.1
5600	-1.8	-2.4	-9.0	-9.7	1.1	0.5	2.4
5700	-1.8	-2.4	-8.7	-9.5	1.1	0.5	2.4
5800	-1.8	-2.4	-8.5	-9.2	1.1	0.5	2.1
5900	-1.8	-2.4	-8.5	-9.1	1.1	0.5	2.3
6000	-1.8	-2.4	-8.4	-9.0	1.1	0.5	1.4
6100	-1.7	-2.4	-8.4	-8.9	1.1	0.5	1.2
6200	-1.7	-2.4	-8.5	-8.9	1.1	0.5	1.9
6300	-1.8	-2.4	-8.5	-8.9	1.1	0.5	1.9
6400	-1.8	-2.5	-8.6	-9.0	1.1	0.5	2.1
6500	-1.8	-2.5	-8.6	-8.9	1.1	0.5	1.6
6600	-1.8	-2.5	-8.6	-8.9	1.1	0.5	2.3
6700	-1.8	-2.5	-8.8	-9.0	1.1	0.5	2.0
6800	-1.8	-2.6	-8.8	-9.1	1.1	0.5	2.1
6900	-1.8	-2.6	-8.8	-9.0	1.1	0.5	2.2
7000	-1.9	-2.6	-8.8	-9.0	1.1	0.6	2.2
7100	-1.8	-2.6	-8.8	-8.9	1.1	0.5	1.8
7200	-1.8	-2.6	-8.9	-8.9	1.1	0.5	2.7
7300	-1.8	-2.6	-8.9	-8.9	1.1	0.5	2.5
7400	-1.8	-2.6	-8.9	-8.9	1.1	0.5	1.3
7500	-1.8	-2.6	-9.0	-8.8	1.1	0.5	2.3
7600	-1.9	-2.6	-9.0	-8.8	1.1	0.5	2.5
7700	-1.9	-2.7	-9.0	-8.8	1.1	0.5	2.5
7800	-1.9	-2.7	-9.0	-8.8	1.1	0.6	1.4
7900	-2.0	-2.8	-8.9	-8.7	1.1	0.6	2.2
8000	-2.1	-2.8	-8.9	-8.6	1.1	0.6	2.2

*Typical Performance Data***NOTE: Use PDF Bookmarks to view DATA at required conditions****Definitions:**

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +4.75\text{ V}$, $V_{EN} = 0\text{ V}$, $I_{DD} = 3\text{ mA}$, $I_{EN} = 0\text{ mA}$ @ Temperature = +25°C

See TSY-83LN+ for additional test data.

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dB)
5500	-1.3	-1.9	-18.5	-20.6	1.1	0.6	1.6
5600	-1.2	-1.9	-19.3	-23.5	1.1	0.6	1.6
5700	-1.2	-1.8	-19.6	-27.0	1.1	0.6	1.6
5800	-1.2	-1.8	-19.4	-27.8	1.1	0.6	1.4
5900	-1.1	-1.8	-19.1	-24.9	1.1	0.6	0.9
6000	-1.2	-1.8	-18.5	-22.2	1.1	0.6	1.7
6100	-1.2	-1.8	-17.6	-19.9	1.1	0.6	1.1
6200	-1.2	-1.9	-16.6	-18.1	1.1	0.6	1.6
6300	-1.2	-1.9	-15.6	-16.5	1.1	0.6	1.2
6400	-1.3	-2.0	-14.6	-15.2	1.1	0.6	1.4
6500	-1.3	-2.1	-13.8	-14.2	1.1	0.6	1.7
6600	-1.4	-2.1	-12.9	-13.2	1.1	0.6	2.0
6700	-1.5	-2.2	-12.2	-12.4	1.1	0.6	2.0
6800	-1.6	-2.3	-11.4	-11.5	1.1	0.6	1.5
6900	-1.7	-2.4	-10.7	-10.8	1.1	0.6	1.5
7000	-1.7	-2.5	-10.0	-10.0	1.1	0.6	1.9
7100	-1.8	-2.6	-9.4	-9.3	1.1	0.6	2.1
7200	-1.9	-2.7	-8.9	-8.8	1.1	0.6	1.5
7300	-2.0	-2.8	-8.4	-8.2	1.1	0.6	1.6
7400	-2.2	-3.0	-7.9	-7.8	1.1	0.6	2.1
7500	-2.3	-3.1	-7.5	-7.3	1.1	0.6	1.9
7600	-2.5	-3.3	-7.1	-6.9	1.1	0.6	2.3
7700	-2.7	-3.4	-6.7	-6.5	1.1	0.6	2.1
7800	-2.9	-3.6	-6.3	-6.2	1.1	0.5	2.3
7900	-3.1	-3.8	-5.9	-5.8	1.1	0.5	1.8
8000	-3.3	-4.1	-5.6	-5.5	1.1	0.5	2.0
8100	-3.6	-4.3	-5.2	-5.2	1.1	0.5	2.9
8200	-3.9	-4.6	-4.9	-4.9	1.2	0.6	2.4
8300	-4.2	-4.9	-4.6	-4.6	1.2	0.5	2.3
8400	-4.4	-5.1	-4.3	-4.3	1.2	0.5	2.2
8500	-4.7	-5.4	-4.0	-4.0	1.2	0.5	2.3

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +5.0\text{ V}$, $V_{EN} = +5.0\text{ V}$, $I_{DD} = 77\text{ mA}$, $I_{EN} = 2.10\text{ mA}$ @ Temperature = $+25^\circ\text{C}$

See TSY-83LN+ for additional test data.

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	3dB Comp. Output	Noise Figure	IP-3 Output Pout = +0
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)	(dBm)
200	15.4	-33.0	-1.9	-4.0	1.4	0.9	17.7	21.4	19.7	31.6
300	20.2	-28.2	-5.7	-8.2	1.2	0.8	19.7	21.3	2.6	31.9
400	21.6	-26.7	-11.7	-14.1	1.1	0.7	20.0	21.7	1.9	32.8
500	22.0	-26.5	-18.0	-17.6	1.1	0.6	20.4	21.9	1.7	33.5
600	22.1	-26.3	-20.4	-17.2	1.1	0.6	20.7	22.1	1.5	32.6
700	22.1	-26.3	-19.0	-16.2	1.1	0.6	20.9	22.3	1.4	33.8
800	22.1	-26.3	-17.8	-15.5	1.1	0.6	21.0	22.4	1.3	32.8
900	22.1	-26.4	-17.0	-15.3	1.1	0.6	21.1	22.5	1.2	33.5
1000	22.1	-26.4	-16.5	-15.4	1.1	0.6	21.2	22.6	1.3	32.8
1100	22.1	-26.5	-16.3	-15.6	1.1	0.6	21.2	22.5	1.4	32.8
1200	22.1	-26.4	-16.3	-16.0	1.1	0.6	21.2	22.6	1.4	32.1
1300	22.1	-26.5	-16.5	-16.4	1.1	0.6	21.2	22.6	1.3	32.7
1400	22.1	-26.6	-16.6	-17.1	1.1	0.6	21.2	22.5	1.3	31.5
1500	22.1	-26.6	-16.8	-18.0	1.1	0.7	21.1	22.8	1.3	31.3
1600	22.1	-26.6	-17.0	-19.0	1.1	0.7	21.2	22.7	1.4	32.2
1700	22.1	-26.7	-17.0	-20.1	1.1	0.7	21.2	22.9	1.4	31.9
1800	22.1	-26.8	-17.2	-21.5	1.1	0.7	21.1	22.8	1.4	31.3
1900	22.1	-26.9	-17.2	-23.3	1.2	0.7	21.1	22.8	1.5	30.9
2000	22.1	-26.8	-16.8	-25.9	1.2	0.7	20.9	22.6	1.4	31.1
2100	22.1	-26.9	-16.4	-29.0	1.2	0.7	20.9	22.9	1.4	31.7
2200	22.1	-27.0	-15.9	-31.4	1.2	0.7	20.9	22.9	1.5	32.1
2300	22.1	-27.1	-15.4	-30.3	1.2	0.7	20.9	22.9	1.5	30.6
2400	22.1	-27.1	-14.9	-28.1	1.2	0.7	20.7	23.2	1.6	29.8
2500	22.1	-27.2	-14.5	-25.3	1.2	0.7	20.6	23.3	1.6	30.1
2600	22.1	-27.4	-13.9	-23.2	1.2	0.7	20.4	23.4	1.6	31.3
2700	22.0	-27.5	-13.7	-22.1	1.2	0.8	20.3	23.1	1.6	29.6
2800	22.1	-27.6	-13.1	-20.4	1.2	0.8	20.2	23.0	1.6	30.3
2900	22.0	-27.6	-12.9	-19.6	1.2	0.8	20.1	22.7	1.7	28.7
3000	22.0	-27.6	-12.4	-18.5	1.2	0.8	19.8	22.9	1.7	29.0
3100	22.0	-27.7	-12.1	-17.6	1.2	0.8	19.6	23.0	1.7	28.5
3200	22.0	-27.6	-11.8	-17.0	1.2	0.8	19.4	22.5	1.7	29.1
3300	22.0	-27.6	-11.5	-16.4	1.2	0.8	19.3	22.4	1.6	28.5
3400	22.0	-27.8	-11.2	-15.9	1.2	0.8	19.3	22.4	1.6	28.0
3500	22.0	-27.8	-11.1	-15.5	1.2	0.8	19.2	23.0	1.6	28.0
3600	22.0	-27.8	-11.1	-15.3	1.2	0.8	19.2	23.2	1.6	28.5
3700	22.1	-27.8	-11.0	-15.3	1.2	0.8	19.3	22.7	1.7	27.6
3800	22.1	-27.9	-11.0	-15.4	1.2	0.8	19.5	22.8	1.6	28.0
3900	22.1	-28.0	-11.0	-15.6	1.2	0.8	19.8	22.9	1.6	28.3
4000	22.2	-28.0	-10.8	-15.7	1.2	0.8	20.1	23.1	1.6	27.1
4100	22.2	-28.1	-10.9	-15.8	1.2	0.8	20.1	23.5	1.6	28.1
4200	22.2	-28.1	-11.1	-16.0	1.2	0.8	20.1	23.2	1.6	27.5
4300	22.3	-28.3	-11.4	-16.2	1.2	0.8	20.2	23.2	1.6	27.9
4400	22.3	-28.4	-11.6	-16.4	1.2	0.8	20.3	23.2	1.6	28.1
4500	22.3	-28.2	-12.1	-17.3	1.2	0.8	20.5	23.4	1.6	28.6
4600	22.3	-28.1	-12.8	-18.1	1.2	0.8	20.5	23.6	1.6	27.9
4700	22.4	-28.1	-13.0	-19.1	1.2	0.8	20.3	23.4	1.6	27.7
4800	22.5	-28.1	-13.1	-19.7	1.2	0.8	20.2	23.3	1.6	27.2
4900	22.6	-28.1	-13.2	-20.7	1.2	0.8	20.3	23.6	1.6	28.4
5000	22.7	-28.2	-13.5	-21.8	1.2	0.8	20.5	23.6	1.6	28.6
5100	22.8	-28.4	-14.0	-22.4	1.2	0.8	20.3	23.5	1.6	27.9
5200	22.9	-28.3	-14.4	-23.0	1.2	0.8	19.9	23.1	1.6	27.6
5300	23.0	-28.5	-15.0	-23.5	1.2	0.8	19.9	22.9	1.6	27.0
5400	23.0	-28.8	-16.1	-23.1	1.3	0.8	20.1	23.0	1.6	27.1
5500	23.0	-28.8	-17.6	-23.1	1.3	0.8	20.5	23.3	1.6	27.2
5600	22.9	-28.9	-20.5	-22.4	1.3	0.8	20.6	23.5	1.7	27.9
5700	22.8	-28.7	-22.6	-22.3	1.3	0.8	20.4	23.3	1.7	27.8
5800	22.9	-28.6	-24.0	-22.6	1.3	0.8	19.8	23.1	1.7	26.7
5900	23.0	-28.4	-25.2	-22.9	1.3	0.8	19.5	23.0	1.7	26.3
6000	23.1	-28.5	-25.3	-24.0	1.2	0.8	19.2	22.9	1.7	26.5
6100	23.3	-28.5	-23.8	-26.2	1.2	0.7	19.3	22.7	1.7	26.2
6200	23.4	-28.7	-21.5	-29.1	1.2	0.8	19.4	22.3	1.8	26.0
6300	23.5	-28.8	-19.4	-30.5	1.2	0.8	19.5	22.0	1.8	26.9
6400	23.5	-28.9	-17.5	-29.6	1.2	0.8	19.3	21.7	1.8	26.0
6500	23.5	-29.2	-15.8	-25.4	1.3	0.8	18.9	21.4	1.9	25.7
6600	23.5	-29.4	-13.9	-22.5	1.3	0.8	18.4	21.2	1.9	25.0
6700	23.4	-30.0	-12.0	-19.2	1.3	0.8	18.1	20.8	1.9	24.8
6800	23.1	-30.6	-10.7	-16.8	1.4	0.9	18.2	20.6	2.0	24.3
6900	22.7	-31.0	-10.2	-16.3	1.4	0.9	18.6	20.3	2.1	25.5
7000	22.4	-31.2	-9.6	-16.6	1.5	1.0	18.9	20.0	2.1	25.6
7100	22.7	-30.9	-9.3	-16.5	1.4	0.9	18.8	19.9	2.1	24.6
7200	22.6	-31.1	-8.6	-14.5	1.4	0.9	18.4	20.1	2.1	23.9
7300	22.5	-31.4	-7.9	-13.2	1.4	1.0	18.3	20.1	2.2	23.7
7400	22.4	-32.0	-7.0	-11.6	1.5	1.0	18.7	20.4	2.2	24.9
7500	22.2	-32.6	-6.1	-10.4	1.5	1.0	19.2	20.1	2.2	24.0
7600	21.9	-33.3	-5.4	-9.3	1.6	1.0	19.5	20.2	2.3	24.1
7700	21.4	-34.6	-4.8	-8.3	1.7	1.0	19.3	20.2	2.3	23.0
7800	20.9	-35.4	-4.3	-7.5	1.8	1.0	18.8	19.7	2.4	22.7
7900	20.3	-36.9	-3.9	-6.8	2.0	1.0	18.5	19.7	2.4	22.5
8000	19.6	-38.6	-3.5	-6.3	2.4	1.0	18.4	19.2	2.5	23.1

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +5.0\text{ V}$, $V_{EN} = +5.0\text{ V}$, $I_{DD} = 80\text{ mA}$, $I_{EN} = 2.15\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

See TSY-83LN+ for additional test data.

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	3dB Comp. Output	Noise Figure	IP-3 Output Pout = +0
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)	(dBm)
5500	22.5	-29.1	-11.0	-10.0	1.2	0.7	20.3	22.9	1.4	27.3
5600	22.5	-29.1	-11.5	-10.2	1.3	0.7	20.5	23.3	1.4	27.3
5700	22.5	-28.8	-11.6	-10.6	1.2	0.7	20.6	23.4	1.4	27.5
5800	22.7	-28.7	-11.5	-11.0	1.2	0.7	19.9	23.4	1.4	27.0
5900	22.9	-28.7	-11.1	-11.4	1.2	0.7	20.1	23.2	1.4	27.6
6000	23.0	-28.7	-10.9	-11.6	1.2	0.7	19.7	23.4	1.4	27.0
6100	23.1	-28.8	-10.8	-11.7	1.2	0.7	19.2	23.2	1.5	26.9
6200	23.2	-28.9	-10.9	-11.9	1.2	0.7	19.1	23.2	1.5	26.5
6300	23.3	-28.9	-10.9	-12.0	1.2	0.7	18.7	22.8	1.5	25.7
6400	23.4	-29.1	-10.8	-12.0	1.2	0.7	18.8	22.6	1.5	25.3
6500	23.5	-29.3	-10.8	-11.9	1.2	0.7	19.1	22.4	1.5	25.4
6600	23.5	-29.4	-11.1	-12.0	1.2	0.7	19.6	22.4	1.5	25.8
6700	23.5	-29.7	-11.2	-11.9	1.3	0.7	19.9	22.5	1.6	26.0
6800	23.5	-29.6	-11.6	-12.4	1.3	0.7	20.1	22.5	1.5	25.8
6900	23.4	-29.8	-12.0	-12.7	1.3	0.8	19.8	22.1	1.6	25.9
7000	23.5	-29.6	-12.3	-13.2	1.3	0.8	20.1	22.2	1.6	26.0
7100	23.6	-29.6	-12.2	-13.3	1.3	0.8	20.2	22.1	1.6	26.0
7200	23.7	-29.8	-12.0	-13.2	1.3	0.8	20.3	22.0	1.7	26.6
7300	23.8	-29.8	-12.0	-13.1	1.3	0.8	19.9	21.6	1.7	26.1
7400	23.8	-30.1	-11.7	-12.8	1.3	0.8	19.8	21.3	1.7	25.8
7500	23.8	-30.3	-11.5	-12.7	1.3	0.8	20.1	21.4	1.8	25.8
7600	23.8	-30.6	-11.2	-12.7	1.3	0.8	19.7	21.2	1.9	26.4
7700	23.8	-31.0	-10.7	-12.5	1.3	0.8	20.2	21.4	1.9	26.2
7800	23.7	-31.5	-10.2	-12.6	1.4	0.8	19.8	21.0	2.0	26.4
7900	23.5	-31.8	-9.6	-12.8	1.4	0.9	19.6	20.9	2.1	26.1
8000	23.3	-32.4	-9.0	-13.2	1.5	0.9	19.5	20.8	2.2	26.1
8100	23.1	-32.9	-8.3	-14.0	1.6	1.0	19.9	21.2	2.3	25.8
8200	22.6	-33.5	-7.6	-15.5	1.7	1.0	19.7	21.1	2.4	26.2
8300	22.2	-33.7	-7.2	-17.3	1.8	1.1	19.1	20.5	2.5	26.2
8400	21.9	-33.9	-6.8	-18.7	1.8	1.1	19.2	20.5	2.7	26.3
8500	21.7	-34.2	-6.4	-19.9	1.9	1.2	18.7	20.1	2.8	25.5

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions**Definitions:**

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +5.0$ V, $V_{EN} = 0$ V, $I_{DD} = 4$ mA, $I_{EN} = 0$ mA @ Temperature = +25°C

See TSY-83LN+ for additional test data.

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dB)
200	-3.2	-3.5	-4.2	-7.2	1.1	0.7	2.9
300	-1.9	-2.1	-6.8	-10.2	1.0	0.5	2.6
400	-1.4	-1.5	-9.3	-12.7	1.0	0.5	1.6
500	-1.1	-1.2	-11.8	-14.9	1.0	0.4	1.8
600	-0.9	-1.1	-14.3	-16.8	1.0	0.4	1.0
700	-0.9	-1.0	-17.1	-18.5	1.0	0.4	0.7
800	-0.8	-1.0	-20.4	-19.5	1.0	0.4	1.1
900	-0.8	-1.0	-24.6	-20.0	1.0	0.4	1.5
1000	-0.8	-1.0	-31.3	-20.3	1.0	0.4	1.0
1100	-0.8	-1.0	-44.8	-20.1	1.0	0.3	0.9
1200	-0.8	-1.0	-32.0	-19.8	1.0	0.4	1.1
1300	-0.8	-1.0	-26.9	-19.3	1.0	0.4	1.2
1400	-0.8	-1.0	-23.9	-18.7	1.0	0.4	1.1
1500	-0.8	-1.0	-21.9	-18.2	1.0	0.4	1.2
1600	-0.8	-1.1	-20.8	-17.7	1.0	0.4	1.3
1700	-0.9	-1.1	-19.8	-17.3	1.0	0.4	0.9
1800	-0.9	-1.1	-19.1	-17.2	1.0	0.4	1.3
1900	-0.9	-1.2	-18.3	-17.1	1.0	0.4	1.1
2000	-0.9	-1.2	-17.7	-17.1	1.0	0.4	1.0
2100	-0.9	-1.2	-17.1	-17.3	1.0	0.4	0.9
2200	-1.0	-1.3	-16.6	-17.5	1.0	0.4	1.0
2300	-1.0	-1.3	-16.3	-17.9	1.0	0.4	1.2
2400	-1.0	-1.3	-15.9	-18.5	1.0	0.5	1.4
2500	-1.0	-1.4	-15.7	-18.8	1.0	0.5	1.3
2600	-1.1	-1.5	-15.7	-19.3	1.0	0.5	1.2
2700	-1.1	-1.5	-15.8	-19.8	1.0	0.5	1.5
2800	-1.1	-1.6	-15.8	-20.5	1.0	0.5	1.1
2900	-1.1	-1.6	-15.8	-21.4	1.1	0.5	1.6
3000	-1.1	-1.6	-15.8	-22.5	1.1	0.5	1.7
3100	-1.1	-1.6	-15.8	-23.8	1.1	0.5	1.6
3200	-1.1	-1.6	-15.7	-25.2	1.0	0.5	1.5
3300	-1.1	-1.6	-15.8	-27.6	1.0	0.5	1.3
3400	-1.1	-1.6	-15.7	-31.0	1.0	0.5	1.6
3500	-1.1	-1.6	-15.7	-34.9	1.0	0.5	1.8
3600	-1.2	-1.6	-15.6	-32.3	1.1	0.5	1.5
3700	-1.2	-1.6	-15.4	-28.3	1.1	0.5	1.7
3800	-1.2	-1.6	-15.1	-24.7	1.1	0.5	1.7
3900	-1.2	-1.6	-14.8	-22.2	1.1	0.5	1.6
4000	-1.3	-1.6	-14.4	-20.5	1.1	0.5	1.8
4100	-1.3	-1.7	-14.0	-19.0	1.1	0.5	1.6
4200	-1.3	-1.7	-13.5	-17.7	1.1	0.5	1.7
4300	-1.4	-1.8	-13.1	-16.6	1.1	0.5	2.3
4400	-1.4	-1.8	-12.7	-15.5	1.1	0.6	1.6
4500	-1.4	-1.9	-12.1	-14.5	1.1	0.5	2.4
4600	-1.5	-1.9	-11.6	-13.6	1.1	0.5	2.0
4700	-1.5	-1.9	-11.1	-12.9	1.1	0.5	1.0
4800	-1.5	-2.0	-10.8	-12.4	1.1	0.5	2.5
4900	-1.5	-2.0	-10.5	-11.9	1.1	0.5	1.7
5000	-1.6	-2.1	-10.2	-11.4	1.1	0.5	1.8
5100	-1.6	-2.1	-10.0	-11.0	1.1	0.5	1.4
5200	-1.6	-2.2	-9.8	-10.7	1.1	0.5	1.9
5300	-1.6	-2.2	-9.5	-10.5	1.1	0.5	2.4
5400	-1.7	-2.3	-9.4	-10.2	1.1	0.5	1.7
5500	-1.7	-2.4	-9.2	-9.9	1.1	0.5	1.7
5600	-1.8	-2.4	-8.9	-9.7	1.1	0.5	2.1
5700	-1.8	-2.4	-8.7	-9.5	1.1	0.5	2.2
5800	-1.8	-2.4	-8.5	-9.2	1.1	0.5	2.0
5900	-1.8	-2.4	-8.4	-9.1	1.1	0.5	2.3
6000	-1.8	-2.4	-8.4	-9.0	1.1	0.5	1.9
6100	-1.7	-2.4	-8.4	-8.9	1.1	0.5	1.7
6200	-1.7	-2.4	-8.5	-8.9	1.1	0.5	1.9
6300	-1.7	-2.4	-8.5	-8.9	1.1	0.5	1.9
6400	-1.8	-2.5	-8.5	-8.9	1.1	0.5	2.0
6500	-1.8	-2.5	-8.6	-8.9	1.1	0.5	2.2
6600	-1.8	-2.5	-8.6	-8.9	1.1	0.5	1.4
6700	-1.8	-2.5	-8.7	-9.0	1.1	0.5	2.3
6800	-1.8	-2.6	-8.8	-9.1	1.1	0.5	2.1
6900	-1.8	-2.6	-8.8	-9.0	1.1	0.5	2.2
7000	-1.9	-2.6	-8.7	-8.9	1.1	0.6	1.8
7100	-1.8	-2.6	-8.8	-8.8	1.1	0.5	1.7
7200	-1.8	-2.6	-8.9	-8.9	1.1	0.5	2.7
7300	-1.8	-2.6	-8.9	-8.8	1.1	0.5	1.9
7400	-1.8	-2.6	-8.9	-8.9	1.1	0.5	1.8
7500	-1.8	-2.6	-9.0	-8.8	1.1	0.5	2.2
7600	-1.9	-2.6	-9.0	-8.8	1.1	0.5	2.4
7700	-1.9	-2.7	-9.0	-8.8	1.1	0.5	2.3
7800	-1.9	-2.7	-9.0	-8.8	1.1	0.5	2.0
7900	-2.0	-2.8	-8.9	-8.7	1.1	0.6	2.3
8000	-2.1	-2.8	-8.9	-8.6	1.1	0.6	2.4

*Typical Performance Data***NOTE: Use PDF Bookmarks to view DATA at required conditions****Definitions:**

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +5.0\text{ V}$, $V_{EN} = 0\text{ V}$, $I_{DD} = 4\text{ mA}$, $I_{EN} = 0\text{ mA}$ @ Temperature = $+25^\circ\text{C}$

See TSY-83LN+ for additional test data.

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dB)
5500	-1.3	-1.9	-18.5	-20.6	1.1	0.6	1.8
5600	-1.2	-1.9	-19.3	-23.6	1.1	0.6	1.4
5700	-1.2	-1.8	-19.6	-27.1	1.1	0.6	1.8
5800	-1.2	-1.8	-19.4	-28.0	1.1	0.6	1.7
5900	-1.1	-1.8	-19.1	-24.9	1.1	0.6	1.0
6000	-1.1	-1.8	-18.4	-22.2	1.1	0.6	1.7
6100	-1.2	-1.8	-17.5	-19.9	1.1	0.6	1.1
6200	-1.2	-1.9	-16.5	-18.1	1.1	0.6	1.5
6300	-1.2	-1.9	-15.6	-16.5	1.1	0.6	1.6
6400	-1.3	-2.0	-14.6	-15.2	1.1	0.6	1.4
6500	-1.3	-2.0	-13.8	-14.2	1.1	0.6	1.4
6600	-1.4	-2.1	-12.9	-13.2	1.1	0.6	1.7
6700	-1.5	-2.2	-12.1	-12.4	1.1	0.6	1.4
6800	-1.6	-2.3	-11.4	-11.5	1.1	0.6	1.7
6900	-1.7	-2.4	-10.7	-10.8	1.1	0.6	1.6
7000	-1.7	-2.5	-10.0	-10.0	1.1	0.6	1.5
7100	-1.8	-2.6	-9.4	-9.3	1.1	0.6	1.4
7200	-1.9	-2.7	-8.9	-8.8	1.1	0.6	1.9
7300	-2.0	-2.8	-8.4	-8.2	1.1	0.6	1.2
7400	-2.2	-2.9	-7.9	-7.8	1.1	0.6	2.0
7500	-2.3	-3.1	-7.5	-7.3	1.1	0.6	1.4
7600	-2.5	-3.3	-7.1	-6.9	1.1	0.6	2.3
7700	-2.7	-3.4	-6.6	-6.5	1.1	0.5	2.1
7800	-2.9	-3.6	-6.3	-6.1	1.1	0.5	2.4
7900	-3.1	-3.8	-5.9	-5.8	1.1	0.5	2.6
8000	-3.3	-4.1	-5.6	-5.5	1.1	0.5	2.4
8100	-3.6	-4.3	-5.2	-5.2	1.1	0.5	2.1
8200	-3.9	-4.6	-4.9	-4.9	1.2	0.6	2.3
8300	-4.2	-4.9	-4.6	-4.6	1.2	0.5	2.6
8400	-4.4	-5.1	-4.2	-4.3	1.2	0.5	1.9
8500	-4.7	-5.4	-4.0	-4.0	1.2	0.5	2.6

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +5.25\text{ V}$, $V_{EN} = +5.25\text{ V}$, $I_{DD} = 84\text{ mA}$, $I_{EN} = 2.20\text{ mA}$ @ Temperature = +25°C

See TSY-83LN+ for additional test data.

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	3dB Comp. Output	Noise Figure	IP-3 Output Pout = +0
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)	(dBm)
200	15.6	-33.3	-1.9	-4.0	1.4	0.8	18.1	21.9	19.7	32.8
300	20.4	-28.3	-5.7	-8.2	1.2	0.8	20.3	21.9	2.7	33.1
400	21.8	-26.8	-11.9	-14.0	1.1	0.7	20.5	22.2	1.9	34.0
500	22.2	-26.6	-18.2	-17.0	1.1	0.6	20.9	22.4	1.7	34.3
600	22.2	-26.5	-19.9	-16.4	1.1	0.6	21.2	22.6	1.5	32.6
700	22.2	-26.6	-18.2	-15.5	1.1	0.6	21.4	22.7	1.4	34.5
800	22.2	-26.5	-17.0	-14.8	1.1	0.6	21.5	22.8	1.4	33.3
900	22.2	-26.6	-16.3	-14.7	1.1	0.6	21.6	23.0	1.3	37.5
1000	22.2	-26.7	-15.9	-14.7	1.1	0.6	21.7	23.0	1.4	32.9
1100	22.2	-26.6	-15.7	-14.9	1.1	0.6	21.7	23.0	1.4	34.2
1200	22.2	-26.7	-15.8	-15.2	1.1	0.6	21.7	23.1	1.3	32.9
1300	22.2	-26.7	-16.0	-15.6	1.1	0.6	21.7	23.1	1.4	33.5
1400	22.2	-26.8	-16.2	-16.2	1.1	0.6	21.7	23.0	1.4	32.9
1500	22.2	-26.9	-16.6	-17.1	1.1	0.7	21.6	23.2	1.4	32.7
1600	22.2	-26.8	-16.8	-17.9	1.1	0.7	21.7	23.2	1.4	33.8
1700	22.3	-26.9	-17.0	-18.8	1.1	0.7	21.7	23.4	1.4	32.8
1800	22.3	-27.0	-17.3	-20.1	1.1	0.7	21.6	23.3	1.4	32.6
1900	22.3	-26.9	-17.4	-21.7	1.1	0.7	21.5	23.3	1.4	31.2
2000	22.3	-26.9	-17.2	-23.9	1.1	0.7	21.4	23.1	1.4	32.3
2100	22.3	-27.0	-16.9	-26.5	1.2	0.7	21.4	23.4	1.4	32.7
2200	22.3	-27.1	-16.5	-29.4	1.2	0.7	21.4	23.3	1.5	33.1
2300	22.3	-27.1	-16.0	-30.8	1.2	0.7	21.4	23.4	1.5	31.8
2400	22.3	-27.3	-15.5	-29.7	1.2	0.7	21.2	23.6	1.5	30.6
2500	22.3	-27.3	-15.1	-27.1	1.2	0.7	21.1	23.8	1.5	29.7
2600	22.3	-27.5	-14.6	-24.7	1.2	0.7	20.9	23.8	1.6	32.9
2700	22.3	-27.5	-14.3	-23.6	1.2	0.8	20.8	23.6	1.6	30.9
2800	22.3	-27.7	-13.7	-21.6	1.2	0.8	20.7	23.4	1.7	31.4
2900	22.2	-27.7	-13.4	-20.7	1.2	0.8	20.6	23.2	1.7	29.5
3000	22.2	-27.8	-12.9	-19.4	1.2	0.8	20.3	23.3	1.7	30.0
3100	22.2	-27.7	-12.6	-18.5	1.2	0.8	20.1	23.4	1.7	30.3
3200	22.2	-27.7	-12.3	-17.8	1.2	0.8	19.9	23.0	1.7	29.6
3300	22.2	-27.7	-11.9	-17.1	1.2	0.8	19.9	22.9	1.6	29.2
3400	22.2	-27.8	-11.6	-16.7	1.2	0.8	19.9	22.9	1.7	28.7
3500	22.2	-27.8	-11.5	-16.2	1.2	0.8	19.9	23.4	1.6	28.7
3600	22.2	-28.0	-11.4	-16.0	1.2	0.8	19.9	23.6	1.6	29.3
3700	22.3	-28.1	-11.4	-15.9	1.2	0.8	19.9	23.2	1.6	28.6
3800	22.3	-28.0	-11.4	-16.1	1.2	0.8	20.1	23.2	1.6	29.0
3900	22.3	-28.0	-11.3	-16.3	1.2	0.8	20.4	23.4	1.6	30.0
4000	22.4	-28.1	-11.1	-16.4	1.2	0.8	20.6	23.6	1.6	28.2
4100	22.4	-28.2	-11.2	-16.6	1.2	0.8	20.7	23.9	1.6	28.7
4200	22.5	-28.1	-11.3	-16.8	1.2	0.8	20.7	23.7	1.6	28.5
4300	22.5	-28.4	-11.6	-17.1	1.2	0.8	20.8	23.6	1.6	29.3
4400	22.5	-28.5	-11.9	-17.2	1.2	0.8	20.9	23.6	1.6	28.9
4500	22.5	-28.4	-12.4	-18.2	1.2	0.8	21.0	23.8	1.6	29.7
4600	22.5	-28.2	-13.1	-19.2	1.2	0.8	21.0	24.0	1.6	28.9
4700	22.6	-28.1	-13.2	-20.3	1.2	0.8	20.9	23.8	1.6	28.5
4800	22.7	-28.1	-13.3	-21.1	1.2	0.8	20.9	23.7	1.6	28.2
4900	22.8	-28.2	-13.3	-22.4	1.2	0.8	20.9	24.0	1.6	29.3
5000	22.9	-28.3	-13.7	-23.5	1.2	0.8	21.1	24.0	1.6	29.4
5100	23.0	-28.5	-14.1	-24.4	1.2	0.8	20.9	23.8	1.6	28.6
5200	23.1	-28.4	-14.6	-25.2	1.2	0.8	20.6	23.5	1.6	28.0
5300	23.2	-28.5	-15.2	-25.8	1.2	0.8	20.5	23.4	1.7	27.5
5400	23.2	-28.8	-16.4	-25.3	1.2	0.8	20.6	23.5	1.6	27.9
5500	23.2	-29.0	-17.9	-25.2	1.3	0.8	21.0	23.6	1.7	27.7
5600	23.1	-29.0	-20.9	-24.0	1.3	0.8	21.1	23.8	1.6	28.7
5700	23.0	-28.7	-22.8	-23.6	1.3	0.8	20.9	23.7	1.7	28.2
5800	23.1	-28.5	-23.9	-23.5	1.2	0.8	20.5	23.5	1.7	27.3
5900	23.2	-28.6	-25.0	-24.0	1.3	0.8	20.1	23.4	1.7	26.7
6000	23.3	-28.6	-25.8	-25.0	1.2	0.7	19.9	23.2	1.7	27.3
6100	23.5	-28.5	-24.6	-27.2	1.2	0.7	19.9	23.1	1.7	26.9
6200	23.6	-28.7	-22.4	-32.0	1.2	0.7	19.9	22.6	1.8	26.5
6300	23.7	-28.9	-20.2	-37.6	1.2	0.7	20.0	22.4	1.8	27.1
6400	23.8	-29.0	-18.2	-35.1	1.2	0.8	19.8	22.0	1.9	26.8
6500	23.7	-29.2	-16.3	-27.8	1.2	0.8	19.4	21.7	1.9	26.3
6600	23.7	-29.5	-14.3	-23.8	1.3	0.8	18.8	21.5	1.9	25.6
6700	23.7	-30.0	-12.3	-19.9	1.3	0.8	18.6	21.1	2.0	25.1
6800	23.3	-30.7	-10.9	-17.4	1.4	0.9	18.7	20.9	2.0	24.8
6900	22.9	-31.0	-10.4	-16.9	1.4	0.9	19.1	20.7	2.0	26.0
7000	22.7	-31.2	-9.8	-17.2	1.5	1.0	19.4	20.4	2.1	26.0
7100	22.9	-30.9	-9.5	-16.9	1.4	0.9	19.2	20.4	2.1	25.1
7200	22.9	-31.2	-8.7	-14.7	1.4	0.9	18.8	20.5	2.1	24.3
7300	22.8	-31.5	-8.0	-13.3	1.4	0.9	18.7	20.5	2.2	24.2
7400	22.7	-31.8	-7.0	-11.7	1.4	0.9	19.1	20.8	2.2	25.3
7500	22.5	-32.6	-6.1	-10.4	1.5	1.0	19.6	20.4	2.3	24.6
7600	22.1	-33.7	-5.4	-9.3	1.6	1.0	19.9	20.5	2.3	24.6
7700	21.6	-34.6	-4.8	-8.3	1.7	1.0	19.7	20.5	2.4	23.7
7800	21.2	-35.6	-4.3	-7.5	1.8	1.0	19.2	20.1	2.4	23.1
7900	20.5	-37.3	-3.8	-6.8	2.1	1.0	18.9	20.0	2.5	23.0
8000	19.8	-39.3	-3.5	-6.2	2.5	1.0	18.8	19.5	2.5	23.7

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +5.25$ V, $V_{EN} = +5.25$ V, $I_{DD} = 87$ mA, $I_{EN} = 2.26$ mA @ Temperature = +25°C

See TSY-83LN+ for additional test data.

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	3dB Comp. Output	Noise Figure	IP-3 Output Pout = +0
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)	(dBm)
5500	22.7	-29.1	-11.0	-10.4	1.2	0.7	20.7	23.3	1.4	28.0
5600	22.7	-29.2	-11.6	-10.5	1.3	0.7	21.0	23.6	1.4	27.9
5700	22.7	-28.9	-11.7	-11.0	1.2	0.7	21.0	23.8	1.4	28.1
5800	22.9	-28.8	-11.6	-11.4	1.2	0.7	20.5	23.7	1.4	27.4
5900	23.1	-28.7	-11.1	-11.8	1.2	0.7	20.7	23.6	1.4	28.0
6000	23.2	-28.8	-11.0	-12.0	1.2	0.7	20.4	23.7	1.4	27.7
6100	23.4	-28.8	-10.9	-12.1	1.2	0.7	20.0	23.5	1.5	27.4
6200	23.4	-28.9	-11.0	-12.2	1.2	0.7	19.8	23.4	1.5	27.1
6300	23.5	-28.9	-11.0	-12.2	1.2	0.7	19.4	23.0	1.5	26.2
6400	23.6	-29.1	-10.9	-12.2	1.2	0.7	19.4	22.8	1.5	25.8
6500	23.7	-29.3	-10.9	-12.1	1.2	0.7	19.7	22.6	1.5	25.9
6600	23.7	-29.4	-11.2	-12.1	1.2	0.7	20.1	22.8	1.6	26.2
6700	23.7	-29.7	-11.3	-12.0	1.2	0.7	20.3	22.7	1.6	26.4
6800	23.7	-29.7	-11.7	-12.5	1.3	0.7	20.5	22.8	1.6	26.3
6900	23.6	-29.7	-12.2	-12.7	1.3	0.7	20.2	22.4	1.6	26.3
7000	23.7	-29.6	-12.5	-13.1	1.3	0.7	20.5	22.4	1.6	26.3
7100	23.8	-29.6	-12.4	-13.1	1.2	0.7	20.7	22.4	1.6	26.4
7200	23.9	-29.9	-12.2	-12.9	1.3	0.7	20.7	22.4	1.7	26.8
7300	24.0	-29.9	-12.2	-12.8	1.2	0.7	20.4	22.0	1.7	26.4
7400	24.0	-30.1	-11.9	-12.4	1.3	0.7	20.2	21.7	1.8	26.0
7500	24.0	-30.4	-11.6	-12.3	1.3	0.8	20.5	21.8	1.8	26.0
7600	24.0	-30.7	-11.3	-12.2	1.3	0.8	20.2	21.6	1.9	26.4
7700	24.0	-31.0	-10.8	-12.0	1.3	0.8	20.6	21.8	1.9	26.3
7800	23.9	-31.4	-10.3	-12.1	1.4	0.8	20.2	21.5	2.0	26.6
7900	23.7	-31.9	-9.7	-12.3	1.4	0.9	19.9	21.3	2.1	26.0
8000	23.5	-32.4	-9.1	-12.6	1.5	0.9	19.8	21.2	2.2	26.1
8100	23.3	-33.1	-8.3	-13.3	1.6	1.0	20.3	21.6	2.3	25.6
8200	22.8	-33.7	-7.7	-14.8	1.7	1.0	20.1	21.5	2.4	26.2
8300	22.4	-33.9	-7.3	-16.4	1.8	1.1	19.5	20.9	2.5	26.1
8400	22.1	-34.1	-6.8	-17.7	1.8	1.1	19.6	21.0	2.7	26.2
8500	21.9	-34.3	-6.4	-18.7	1.9	1.1	19.1	20.5	2.8	25.5

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions**Definitions:**

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +5.25$ V, $V_{EN} = 0$ V, $I_{DD} = 4$ mA, $I_{EN} = 0$ mA @ Temperature = +25°C

See TSY-83LN+ for additional test data.

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dB)
200	-3.3	-3.5	-4.2	-7.2	1.1	0.7	2.7
300	-1.9	-2.1	-6.8	-10.2	1.0	0.5	2.7
400	-1.4	-1.5	-9.3	-12.6	1.0	0.4	1.5
500	-1.1	-1.2	-11.8	-14.9	1.0	0.4	1.7
600	-0.9	-1.1	-14.3	-16.8	1.0	0.4	1.1
700	-0.9	-1.0	-17.1	-18.4	1.0	0.4	0.9
800	-0.8	-1.0	-20.4	-19.5	1.0	0.4	0.7
900	-0.8	-1.0	-24.6	-20.0	1.0	0.4	0.6
1000	-0.8	-1.0	-31.3	-20.3	1.0	0.3	1.0
1100	-0.8	-1.0	-44.4	-20.2	1.0	0.3	0.8
1200	-0.8	-1.0	-31.9	-19.8	1.0	0.4	0.8
1300	-0.8	-1.0	-26.9	-19.3	1.0	0.4	0.8
1400	-0.8	-1.0	-23.9	-18.7	1.0	0.4	0.8
1500	-0.8	-1.0	-21.9	-18.2	1.0	0.4	0.9
1600	-0.8	-1.1	-20.7	-17.7	1.0	0.4	1.1
1700	-0.9	-1.1	-19.9	-17.3	1.0	0.4	1.0
1800	-0.9	-1.1	-19.1	-17.2	1.0	0.4	0.9
1900	-0.9	-1.2	-18.3	-17.1	1.0	0.4	1.2
2000	-0.9	-1.2	-17.7	-17.2	1.0	0.4	1.2
2100	-0.9	-1.2	-17.1	-17.3	1.0	0.4	1.2
2200	-1.0	-1.3	-16.6	-17.6	1.0	0.4	1.0
2300	-1.0	-1.3	-16.3	-18.0	1.0	0.4	1.2
2400	-1.0	-1.4	-15.9	-18.5	1.0	0.5	1.5
2500	-1.0	-1.4	-15.7	-18.9	1.0	0.5	1.6
2600	-1.0	-1.5	-15.7	-19.3	1.0	0.5	1.4
2700	-1.1	-1.5	-15.8	-19.9	1.0	0.5	1.7
2800	-1.1	-1.6	-15.8	-20.6	1.0	0.5	1.5
2900	-1.1	-1.6	-15.8	-21.4	1.1	0.5	1.5
3000	-1.1	-1.6	-15.8	-22.5	1.1	0.5	1.5
3100	-1.1	-1.6	-15.8	-23.7	1.1	0.5	1.3
3200	-1.1	-1.6	-15.7	-25.3	1.0	0.5	1.5
3300	-1.1	-1.6	-15.7	-27.5	1.0	0.5	1.3
3400	-1.1	-1.6	-15.7	-31.0	1.0	0.5	1.2
3500	-1.1	-1.6	-15.6	-34.9	1.0	0.5	1.3
3600	-1.2	-1.6	-15.6	-32.3	1.1	0.5	1.6
3700	-1.2	-1.6	-15.4	-28.4	1.1	0.5	1.8
3800	-1.2	-1.6	-15.1	-24.6	1.1	0.5	1.3
3900	-1.2	-1.6	-14.8	-22.1	1.1	0.5	1.8
4000	-1.2	-1.7	-14.3	-20.4	1.1	0.5	1.9
4100	-1.3	-1.7	-14.0	-19.0	1.1	0.5	1.6
4200	-1.3	-1.7	-13.5	-17.7	1.1	0.5	1.8
4300	-1.3	-1.8	-13.1	-16.5	1.1	0.5	1.9
4400	-1.4	-1.8	-12.6	-15.5	1.1	0.6	1.9
4500	-1.4	-1.9	-12.1	-14.5	1.1	0.5	1.7
4600	-1.5	-1.9	-11.5	-13.6	1.1	0.5	2.0
4700	-1.5	-1.9	-11.1	-12.9	1.1	0.5	1.9
4800	-1.5	-2.0	-10.8	-12.4	1.1	0.5	2.4
4900	-1.5	-2.0	-10.5	-11.9	1.1	0.5	1.6
5000	-1.6	-2.1	-10.2	-11.4	1.1	0.5	1.9
5100	-1.6	-2.1	-9.9	-11.0	1.1	0.5	1.1
5200	-1.6	-2.2	-9.7	-10.7	1.1	0.5	1.1
5300	-1.6	-2.2	-9.5	-10.4	1.1	0.5	1.2
5400	-1.7	-2.3	-9.4	-10.2	1.1	0.5	1.6
5500	-1.7	-2.4	-9.2	-10.0	1.1	0.5	1.4
5600	-1.8	-2.4	-8.9	-9.7	1.1	0.5	2.0
5700	-1.8	-2.4	-8.7	-9.4	1.1	0.5	1.9
5800	-1.8	-2.4	-8.5	-9.2	1.1	0.5	2.0
5900	-1.8	-2.4	-8.4	-9.1	1.1	0.5	1.9
6000	-1.8	-2.4	-8.4	-8.9	1.1	0.5	1.2
6100	-1.7	-2.4	-8.4	-8.9	1.1	0.5	2.2
6200	-1.7	-2.4	-8.5	-8.9	1.1	0.5	2.0
6300	-1.7	-2.4	-8.5	-8.9	1.1	0.5	2.0
6400	-1.8	-2.5	-8.5	-8.9	1.1	0.5	2.6
6500	-1.8	-2.5	-8.5	-8.9	1.1	0.5	2.0
6600	-1.8	-2.5	-8.6	-8.9	1.1	0.5	2.0
6700	-1.8	-2.5	-8.7	-9.0	1.1	0.5	2.3
6800	-1.8	-2.6	-8.8	-9.1	1.1	0.5	2.3
6900	-1.8	-2.6	-8.8	-9.0	1.1	0.5	2.4
7000	-1.9	-2.6	-8.7	-8.9	1.1	0.5	2.4
7100	-1.8	-2.6	-8.8	-8.8	1.1	0.5	2.0
7200	-1.8	-2.6	-8.9	-8.8	1.1	0.5	2.8
7300	-1.8	-2.6	-8.9	-8.8	1.1	0.5	2.3
7400	-1.8	-2.6	-8.9	-8.9	1.1	0.5	2.3
7500	-1.8	-2.6	-9.0	-8.8	1.1	0.5	2.6
7600	-1.9	-2.6	-9.0	-8.8	1.1	0.5	2.1
7700	-1.9	-2.7	-9.0	-8.8	1.1	0.5	2.2
7800	-1.9	-2.7	-9.0	-8.7	1.1	0.5	1.7
7900	-2.0	-2.8	-8.9	-8.7	1.1	0.6	2.3
8000	-2.1	-2.8	-8.9	-8.6	1.1	0.6	2.4

*Typical Performance Data***NOTE: Use PDF Bookmarks to view DATA at required conditions****Definitions:**

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +5.25$ V, $V_{EN} = 0$ V, $I_{DD} = 3$ mA, $I_{EN} = 0$ mA @ Temperature = +25°C

See TSY-83LN+ for additional test data.

FREQ	Insertion Loss	Isolation	Input Return Loss	Output Return Loss	Stability		Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dB)
5500	-1.3	-1.9	-18.5	-20.7	1.1	0.6	1.7
5600	-1.2	-1.9	-19.3	-23.6	1.1	0.6	1.6
5700	-1.2	-1.8	-19.6	-27.1	1.1	0.6	1.5
5800	-1.2	-1.8	-19.4	-28.0	1.1	0.6	1.6
5900	-1.1	-1.8	-19.1	-25.0	1.1	0.6	1.3
6000	-1.1	-1.8	-18.4	-22.2	1.1	0.6	1.3
6100	-1.2	-1.8	-17.5	-19.9	1.1	0.6	1.3
6200	-1.2	-1.9	-16.5	-18.1	1.1	0.6	1.2
6300	-1.2	-1.9	-15.6	-16.5	1.1	0.6	1.6
6400	-1.3	-2.0	-14.6	-15.2	1.1	0.6	1.4
6500	-1.3	-2.0	-13.8	-14.2	1.1	0.6	1.7
6600	-1.4	-2.1	-12.9	-13.2	1.1	0.6	1.8
6700	-1.5	-2.2	-12.1	-12.4	1.1	0.6	1.6
6800	-1.6	-2.3	-11.3	-11.5	1.1	0.6	1.4
6900	-1.7	-2.4	-10.7	-10.8	1.1	0.6	1.2
7000	-1.7	-2.5	-10.0	-10.0	1.1	0.6	1.9
7100	-1.8	-2.6	-9.4	-9.3	1.1	0.6	1.8
7200	-1.9	-2.7	-8.9	-8.8	1.1	0.6	1.8
7300	-2.0	-2.8	-8.4	-8.2	1.1	0.6	1.3
7400	-2.2	-2.9	-7.9	-7.8	1.1	0.6	2.2
7500	-2.3	-3.1	-7.5	-7.3	1.1	0.6	1.7
7600	-2.5	-3.3	-7.0	-6.9	1.1	0.5	2.1
7700	-2.7	-3.4	-6.6	-6.5	1.1	0.5	1.9
7800	-2.9	-3.6	-6.3	-6.1	1.1	0.5	2.0
7900	-3.1	-3.8	-5.9	-5.8	1.1	0.5	2.3
8000	-3.3	-4.1	-5.5	-5.5	1.1	0.5	2.1
8100	-3.6	-4.3	-5.2	-5.2	1.1	0.5	2.4
8200	-3.9	-4.6	-4.9	-4.9	1.2	0.6	2.1
8300	-4.2	-4.9	-4.6	-4.6	1.2	0.5	2.0
8400	-4.4	-5.1	-4.2	-4.3	1.2	0.5	2.0
8500	-4.7	-5.4	-4.0	-4.0	1.2	0.5	2.4

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +5.75\text{ V}$, $V_{EN} = +5.75\text{ V}$, $I_{DD} = 98\text{ mA}$, $I_{EN} = 2.50\text{ mA}$ @ Temperature = +25°C

See TSY-83LN+ for additional test data.

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	3dB Comp. Output	Noise Figure	IP-3 Output Pout = +0
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)	(dBm)
200	15.8	-33.4	-1.9	-3.9	1.4	0.8	18.9	22.8	19.5	33.4
300	20.6	-28.6	-5.9	-8.1	1.2	0.8	21.3	22.8	2.7	34.3
400	22.1	-27.0	-12.3	-13.8	1.1	0.7	21.6	23.1	1.9	35.2
500	22.4	-26.7	-18.3	-16.0	1.1	0.6	21.9	23.3	1.7	35.4
600	22.5	-26.7	-18.7	-15.4	1.1	0.6	22.2	23.4	1.5	35.8
700	22.5	-26.8	-16.9	-14.5	1.1	0.6	22.4	23.5	1.4	37.1
800	22.5	-26.8	-15.9	-13.9	1.1	0.6	22.5	23.7	1.3	35.7
900	22.4	-26.8	-15.3	-13.7	1.1	0.6	22.6	23.8	1.2	34.6
1000	22.4	-26.9	-14.9	-13.7	1.1	0.6	22.6	23.8	1.4	35.7
1100	22.4	-27.0	-14.8	-13.9	1.1	0.6	22.6	23.8	1.4	36.2
1200	22.5	-26.9	-14.9	-14.2	1.1	0.6	22.6	23.9	1.4	35.7
1300	22.5	-26.9	-15.3	-14.5	1.1	0.6	22.6	23.9	1.4	35.2
1400	22.5	-27.0	-15.5	-15.0	1.1	0.6	22.6	23.8	1.3	34.2
1500	22.5	-27.1	-16.0	-15.7	1.1	0.6	22.5	24.0	1.4	34.7
1600	22.5	-27.1	-16.4	-16.5	1.1	0.7	22.6	24.0	1.4	35.4
1700	22.5	-27.1	-16.7	-17.2	1.1	0.7	22.6	24.2	1.4	33.4
1800	22.5	-27.2	-17.1	-18.2	1.1	0.7	22.5	24.1	1.4	34.1
1900	22.6	-27.1	-17.4	-19.5	1.1	0.7	22.4	24.1	1.4	33.6
2000	22.6	-27.2	-17.5	-21.3	1.2	0.7	22.3	23.9	1.5	32.8
2100	22.6	-27.3	-17.4	-23.3	1.2	0.7	22.4	24.2	1.5	33.7
2200	22.6	-27.4	-17.3	-25.6	1.2	0.7	22.4	24.2	1.5	33.3
2300	22.6	-27.4	-17.0	-27.6	1.2	0.7	22.4	24.3	1.5	34.2
2400	22.6	-27.5	-16.5	-29.0	1.2	0.7	22.2	24.4	1.5	32.2
2500	22.7	-27.5	-16.2	-28.2	1.2	0.7	22.1	24.6	1.6	32.7
2600	22.7	-27.7	-15.7	-26.8	1.2	0.7	21.9	24.6	1.6	33.2
2700	22.6	-27.8	-15.3	-26.0	1.2	0.7	21.8	24.4	1.6	32.5
2800	22.6	-27.9	-14.6	-23.6	1.2	0.8	21.7	24.2	1.6	32.9
2900	22.6	-27.8	-14.4	-22.4	1.2	0.8	21.6	24.0	1.7	31.1
3000	22.5	-27.8	-13.8	-21.0	1.2	0.8	21.3	24.1	1.7	31.3
3100	22.5	-27.8	-13.5	-20.0	1.2	0.7	21.1	24.2	1.7	31.3
3200	22.5	-27.8	-13.1	-19.2	1.2	0.7	20.9	23.8	1.7	31.2
3300	22.6	-27.9	-12.6	-18.4	1.2	0.7	21.0	23.7	1.7	30.1
3400	22.6	-28.0	-12.4	-17.8	1.2	0.7	21.0	23.7	1.6	30.3
3500	22.6	-27.9	-12.1	-17.3	1.2	0.7	21.0	24.2	1.8	30.5
3600	22.6	-28.0	-12.0	-17.1	1.2	0.7	21.0	24.3	1.6	30.5
3700	22.6	-28.1	-11.9	-17.1	1.2	0.8	21.0	23.9	1.6	30.0
3800	22.6	-28.0	-11.9	-17.2	1.2	0.7	21.1	24.0	1.6	29.9
3900	22.7	-28.1	-11.8	-17.5	1.2	0.8	21.4	24.2	1.6	30.7
4000	22.7	-28.2	-11.6	-17.6	1.2	0.8	21.7	24.4	1.6	29.5
4100	22.8	-28.3	-11.6	-17.8	1.2	0.8	21.8	24.6	1.6	30.0
4200	22.8	-28.3	-11.7	-18.1	1.2	0.8	21.8	24.4	1.6	29.4
4300	22.8	-28.4	-12.0	-18.5	1.2	0.8	21.8	24.4	1.6	29.9
4400	22.8	-28.6	-12.3	-18.7	1.2	0.8	21.8	24.4	1.6	29.7
4500	22.9	-28.5	-12.8	-19.8	1.2	0.8	22.0	24.6	1.6	30.3
4600	22.8	-28.3	-13.4	-21.2	1.2	0.8	22.0	24.7	1.6	30.0
4700	22.9	-28.2	-13.5	-22.6	1.2	0.8	22.0	24.6	1.6	29.2
4800	23.0	-28.3	-13.6	-23.8	1.2	0.8	22.0	24.5	1.6	29.5
4900	23.1	-28.2	-13.6	-25.5	1.2	0.8	22.0	24.6	1.6	30.4
5000	23.2	-28.4	-13.8	-27.5	1.2	0.8	22.1	24.6	1.6	29.9
5100	23.3	-28.5	-14.3	-28.8	1.2	0.8	21.9	24.6	1.6	29.3
5200	23.4	-28.6	-14.7	-30.6	1.2	0.8	21.9	24.5	1.6	28.8
5300	23.5	-28.7	-15.3	-32.0	1.2	0.8	21.6	24.3	1.6	28.2
5400	23.5	-28.8	-16.7	-30.4	1.2	0.8	21.4	24.1	1.6	28.3
5500	23.5	-29.0	-18.1	-30.3	1.2	0.8	21.6	24.3	1.6	28.1
5600	23.4	-29.1	-20.8	-27.6	1.3	0.8	22.1	24.5	1.7	29.2
5700	23.4	-28.9	-22.7	-26.0	1.3	0.8	21.9	24.3	1.7	28.9
5800	23.4	-28.8	-23.3	-24.8	1.2	0.7	21.5	24.2	1.7	28.5
5900	23.5	-28.7	-24.5	-24.5	1.2	0.7	21.1	23.9	1.7	27.9
6000	23.7	-28.7	-25.6	-25.2	1.2	0.7	20.9	23.6	1.7	27.7
6100	23.9	-28.7	-25.0	-26.5	1.2	0.7	20.9	23.5	1.7	27.2
6200	24.0	-28.8	-23.5	-30.0	1.2	0.7	20.9	23.1	1.8	27.0
6300	24.1	-28.9	-21.3	-33.3	1.2	0.7	21.0	22.9	1.8	27.6
6400	24.2	-29.1	-19.1	-32.7	1.2	0.7	20.8	22.6	1.9	27.0
6500	24.1	-29.4	-17.0	-29.1	1.2	0.8	20.3	22.2	1.9	26.9
6600	24.2	-29.6	-14.9	-24.3	1.2	0.8	19.7	22.1	1.9	26.2
6700	24.1	-30.0	-12.7	-20.4	1.3	0.8	19.4	21.7	1.9	25.7
6800	23.7	-30.6	-11.2	-18.0	1.3	0.9	19.5	21.6	2.0	25.2
6900	23.3	-31.1	-10.6	-17.7	1.4	0.9	20.0	21.3	2.0	26.2
7000	23.1	-31.3	-10.0	-18.1	1.4	0.9	20.2	21.1	2.0	26.5
7100	23.3	-31.0	-9.7	-17.3	1.4	0.9	20.1	21.1	2.1	25.5
7200	23.3	-31.3	-8.8	-14.8	1.4	0.9	19.6	21.2	2.1	24.7
7300	23.2	-31.5	-8.1	-13.4	1.4	0.9	19.5	21.3	2.2	24.5
7400	23.1	-32.0	-7.1	-11.6	1.4	0.9	19.9	21.5	2.2	25.6
7500	22.9	-32.8	-6.1	-10.2	1.5	1.0	20.4	21.1	2.3	24.8
7600	22.5	-33.5	-5.4	-9.1	1.5	1.0	20.6	21.1	2.3	25.1
7700	22.0	-34.8	-4.8	-8.1	1.7	1.0	20.3	21.0	2.4	24.2
7800	21.5	-35.7	-4.2	-7.3	1.7	1.0	19.9	20.6	2.4	23.9
7900	20.9	-37.4	-3.8	-6.7	2.0	1.0	19.5	20.4	2.5	23.6
8000	20.1	-39.3	-3.5	-6.1	2.4	1.0	19.3	19.9	2.5	24.3

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +5.75\text{ V}$, $V_{EN} = +5.75\text{ V}$, $I_{DD} = 102\text{ mA}$, $I_{EN} = 2.47\text{ mA}$ @ Temperature = +25°C

See TSY-83LN+ for additional test data.

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	3dB Comp. Output	Noise Figure	IP-3 Output Pout = +0
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)	(dBm)
5500	23.0	-29.1	-11.1	-11.0	1.2	0.7	21.6	23.9	1.5	28.6
5600	23.0	-29.1	-11.6	-11.1	1.2	0.7	21.9	24.2	1.4	28.4
5700	23.1	-28.9	-11.7	-11.6	1.2	0.7	21.9	24.4	1.4	28.6
5800	23.2	-28.7	-11.6	-12.1	1.2	0.7	21.5	24.1	1.4	28.0
5900	23.4	-28.7	-11.1	-12.5	1.2	0.7	21.7	24.3	1.4	28.4
6000	23.6	-28.8	-11.0	-12.7	1.2	0.7	21.5	24.3	1.4	27.8
6100	23.7	-28.8	-10.9	-12.7	1.2	0.7	21.1	24.0	1.5	28.0
6200	23.8	-28.9	-11.0	-12.7	1.2	0.7	21.0	23.9	1.5	27.6
6300	23.9	-29.0	-11.0	-12.7	1.2	0.7	20.5	23.3	1.5	26.9
6400	24.0	-29.2	-11.0	-12.5	1.2	0.7	20.5	23.1	1.6	26.4
6500	24.0	-29.4	-11.0	-12.3	1.2	0.7	20.7	23.0	1.5	26.3
6600	24.0	-29.5	-11.3	-12.3	1.2	0.7	21.0	23.2	1.6	26.5
6700	24.0	-29.8	-11.5	-12.1	1.2	0.7	21.2	23.2	1.6	26.8
6800	24.0	-29.7	-11.9	-12.4	1.2	0.7	21.3	23.2	1.6	26.8
6900	23.9	-29.9	-12.4	-12.6	1.3	0.7	21.1	22.8	1.6	26.8
7000	24.0	-29.7	-12.7	-12.9	1.2	0.7	21.2	22.9	1.7	26.5
7100	24.1	-29.6	-12.6	-12.7	1.2	0.7	21.4	22.9	1.7	26.8
7200	24.2	-29.9	-12.4	-12.4	1.2	0.7	21.4	23.0	1.7	27.1
7300	24.3	-30.0	-12.4	-12.1	1.2	0.7	21.1	22.6	1.7	26.5
7400	24.4	-30.2	-12.0	-11.7	1.2	0.7	21.0	22.4	1.8	26.1
7500	24.3	-30.5	-11.8	-11.5	1.3	0.7	21.2	22.5	1.8	26.3
7600	24.3	-30.7	-11.5	-11.3	1.3	0.7	20.9	22.3	1.9	26.7
7700	24.3	-31.1	-11.0	-11.1	1.3	0.8	21.4	22.6	2.0	26.3
7800	24.2	-31.5	-10.5	-11.1	1.3	0.8	20.9	22.2	2.0	26.4
7900	24.0	-32.0	-9.8	-11.3	1.4	0.8	20.6	22.1	2.1	26.0
8000	23.9	-32.6	-9.2	-11.6	1.5	0.9	20.5	22.0	2.2	26.0
8100	23.6	-33.2	-8.4	-12.2	1.6	0.9	21.0	22.4	2.3	25.9
8200	23.1	-33.8	-7.7	-13.5	1.7	1.0	20.8	22.2	2.5	26.0
8300	22.8	-34.1	-7.3	-14.9	1.8	1.0	20.2	21.7	2.5	26.0
8400	22.5	-34.2	-6.9	-16.0	1.8	1.1	20.3	21.8	2.7	26.3
8500	22.3	-34.6	-6.4	-16.8	1.9	1.1	19.8	21.4	2.9	25.2

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +5.75$ V, $V_{EN} = 0$ V, $I_{DD} = 4$ mA, $I_{EN} = 0$ mA @ Temperature = +25°C

See TSY-83LN+ for additional test data.

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dB)
200	-3.2	-3.5	-4.2	-7.2	1.1	0.7	2.9
300	-1.9	-2.1	-6.8	-10.2	1.0	0.5	2.7
400	-1.4	-1.5	-9.3	-12.7	1.0	0.4	1.3
500	-1.1	-1.2	-11.7	-14.8	1.0	0.4	1.7
600	-0.9	-1.1	-14.3	-16.8	1.0	0.4	1.1
700	-0.9	-1.0	-17.1	-18.5	1.0	0.4	0.8
800	-0.8	-1.0	-20.4	-19.5	1.0	0.4	0.9
900	-0.8	-1.0	-24.6	-20.0	1.0	0.3	1.0
1000	-0.8	-1.0	-31.2	-20.3	1.0	0.3	0.9
1100	-0.8	-1.0	-44.7	-20.1	1.0	0.3	0.6
1200	-0.8	-1.0	-32.0	-19.8	1.0	0.3	0.9
1300	-0.8	-1.0	-27.0	-19.3	1.0	0.3	0.9
1400	-0.8	-1.0	-23.9	-18.7	1.0	0.4	1.1
1500	-0.8	-1.0	-22.0	-18.2	1.0	0.4	1.0
1600	-0.8	-1.1	-20.8	-17.7	1.0	0.4	0.9
1700	-0.9	-1.1	-19.9	-17.3	1.0	0.4	1.1
1800	-0.9	-1.1	-19.1	-17.2	1.0	0.4	0.9
1900	-0.9	-1.2	-18.3	-17.1	1.0	0.4	1.3
2000	-0.9	-1.2	-17.7	-17.2	1.0	0.4	0.9
2100	-0.9	-1.2	-17.1	-17.3	1.0	0.4	1.2
2200	-1.0	-1.3	-16.6	-17.6	1.0	0.4	1.0
2300	-1.0	-1.3	-16.3	-18.0	1.0	0.4	1.5
2400	-1.0	-1.3	-16.0	-18.5	1.0	0.5	1.9
2500	-1.0	-1.4	-15.7	-18.9	1.0	0.5	1.5
2600	-1.0	-1.4	-15.7	-19.3	1.0	0.5	1.6
2700	-1.1	-1.5	-15.8	-19.9	1.0	0.5	1.1
2800	-1.1	-1.6	-15.8	-20.5	1.0	0.5	1.4
2900	-1.1	-1.6	-15.8	-21.4	1.1	0.5	1.4
3000	-1.1	-1.6	-15.8	-22.5	1.1	0.5	1.6
3100	-1.1	-1.6	-15.8	-23.8	1.1	0.5	1.5
3200	-1.1	-1.6	-15.8	-25.3	1.0	0.5	1.7
3300	-1.1	-1.6	-15.8	-27.6	1.0	0.5	1.5
3400	-1.1	-1.6	-15.8	-31.1	1.0	0.5	1.3
3500	-1.1	-1.6	-15.7	-34.7	1.0	0.5	1.5
3600	-1.2	-1.6	-15.6	-32.3	1.1	0.5	1.0
3700	-1.2	-1.6	-15.4	-28.1	1.1	0.5	1.6
3800	-1.2	-1.6	-15.1	-24.5	1.1	0.5	1.8
3900	-1.2	-1.6	-14.8	-22.0	1.1	0.5	1.5
4000	-1.2	-1.6	-14.3	-20.4	1.1	0.5	1.5
4100	-1.3	-1.7	-13.9	-18.9	1.1	0.5	1.9
4200	-1.3	-1.7	-13.5	-17.7	1.1	0.5	1.2
4300	-1.3	-1.8	-13.1	-16.5	1.1	0.5	1.7
4400	-1.4	-1.8	-12.6	-15.4	1.1	0.5	2.0
4500	-1.4	-1.9	-12.0	-14.4	1.1	0.5	2.0
4600	-1.5	-1.9	-11.5	-13.5	1.1	0.5	2.1
4700	-1.5	-1.9	-11.1	-12.9	1.1	0.5	2.0
4800	-1.5	-2.0	-10.8	-12.4	1.1	0.5	2.2
4900	-1.5	-2.0	-10.5	-11.8	1.1	0.5	1.8
5000	-1.5	-2.1	-10.2	-11.4	1.1	0.5	1.3
5100	-1.6	-2.1	-9.9	-11.0	1.1	0.5	1.3
5200	-1.6	-2.2	-9.7	-10.7	1.1	0.5	1.3
5300	-1.6	-2.2	-9.5	-10.4	1.1	0.5	1.4
5400	-1.7	-2.3	-9.3	-10.2	1.1	0.5	2.3
5500	-1.7	-2.3	-9.2	-9.9	1.1	0.5	2.3
5600	-1.8	-2.4	-8.9	-9.7	1.1	0.5	1.3
5700	-1.8	-2.4	-8.7	-9.4	1.1	0.5	1.9
5800	-1.8	-2.4	-8.5	-9.2	1.1	0.5	2.0
5900	-1.8	-2.4	-8.4	-9.1	1.1	0.5	2.3
6000	-1.8	-2.4	-8.4	-8.9	1.1	0.5	1.5
6100	-1.7	-2.4	-8.4	-8.9	1.1	0.5	1.8
6200	-1.7	-2.4	-8.4	-8.9	1.1	0.5	2.0
6300	-1.7	-2.4	-8.5	-8.9	1.1	0.5	2.0
6400	-1.8	-2.5	-8.5	-8.9	1.1	0.5	2.2
6500	-1.8	-2.5	-8.5	-8.9	1.1	0.5	2.4
6600	-1.8	-2.5	-8.6	-8.9	1.1	0.5	2.0
6700	-1.8	-2.5	-8.7	-9.0	1.1	0.5	1.4
6800	-1.8	-2.6	-8.8	-9.1	1.1	0.5	2.1
6900	-1.8	-2.6	-8.7	-9.0	1.1	0.5	2.1
7000	-1.9	-2.6	-8.7	-8.9	1.1	0.5	2.5
7100	-1.8	-2.6	-8.8	-8.8	1.1	0.5	1.7
7200	-1.8	-2.6	-8.8	-8.8	1.1	0.5	2.7
7300	-1.8	-2.6	-8.8	-8.8	1.1	0.5	2.4
7400	-1.8	-2.6	-8.9	-8.8	1.1	0.5	2.1
7500	-1.8	-2.6	-8.9	-8.8	1.1	0.5	2.2
7600	-1.9	-2.6	-9.0	-8.8	1.1	0.5	2.4
7700	-1.9	-2.7	-9.0	-8.7	1.1	0.5	2.2
7800	-1.9	-2.7	-8.9	-8.7	1.1	0.5	2.0
7900	-2.0	-2.8	-8.9	-8.7	1.1	0.6	2.9
8000	-2.1	-2.8	-8.9	-8.6	1.1	0.6	2.4

*Typical Performance Data***NOTE: Use PDF Bookmarks to view DATA at required conditions****Definitions:**

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +5.75V$, $V_{EN} = 0V$, $I_{DD} = 4mA$, $I_{EN} = 0mA$ @ Temperature = +25°C

See TSY-83LN+ for additional test data.

FREQ	Insertion Loss	Isolation	Input Return Loss	Output Return Loss	Stability		Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dB)
5500	-1.2	-1.8	-18.6	-20.6	1.1	0.6	1.3
5600	-1.2	-1.8	-19.4	-23.7	1.1	0.6	1.4
5700	-1.2	-1.8	-19.7	-27.4	1.1	0.6	1.9
5800	-1.1	-1.8	-19.5	-28.4	1.1	0.6	1.3
5900	-1.1	-1.8	-19.1	-25.3	1.1	0.6	1.1
6000	-1.1	-1.8	-18.5	-22.4	1.1	0.6	1.8
6100	-1.1	-1.8	-17.5	-20.0	1.1	0.6	1.4
6200	-1.2	-1.9	-16.5	-18.2	1.1	0.6	1.9
6300	-1.2	-1.9	-15.5	-16.5	1.1	0.6	1.4
6400	-1.3	-2.0	-14.6	-15.2	1.1	0.6	1.3
6500	-1.3	-2.0	-13.8	-14.2	1.1	0.6	1.3
6600	-1.4	-2.1	-12.9	-13.2	1.1	0.6	1.9
6700	-1.5	-2.2	-12.1	-12.4	1.1	0.6	1.4
6800	-1.6	-2.3	-11.3	-11.5	1.1	0.6	1.6
6900	-1.7	-2.4	-10.6	-10.8	1.1	0.6	1.5
7000	-1.7	-2.5	-10.0	-10.0	1.1	0.6	1.7
7100	-1.8	-2.6	-9.4	-9.3	1.1	0.6	1.7
7200	-1.9	-2.7	-8.9	-8.8	1.1	0.6	1.8
7300	-2.0	-2.8	-8.4	-8.2	1.1	0.6	1.6
7400	-2.1	-2.9	-7.9	-7.8	1.1	0.6	1.5
7500	-2.3	-3.1	-7.5	-7.3	1.1	0.5	2.2
7600	-2.5	-3.3	-7.0	-6.9	1.1	0.5	1.6
7700	-2.7	-3.4	-6.6	-6.5	1.1	0.5	2.4
7800	-2.9	-3.6	-6.2	-6.1	1.1	0.5	1.9
7900	-3.1	-3.8	-5.9	-5.8	1.1	0.5	2.3
8000	-3.3	-4.0	-5.5	-5.4	1.1	0.5	1.8
8100	-3.6	-4.3	-5.2	-5.2	1.1	0.5	1.9
8200	-3.9	-4.6	-4.9	-4.9	1.1	0.6	1.7
8300	-4.2	-4.9	-4.6	-4.6	1.2	0.5	2.1
8400	-4.4	-5.1	-4.2	-4.2	1.2	0.5	2.3
8500	-4.7	-5.4	-3.9	-3.9	1.2	0.5	2.5

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +6.0\text{ V}$, $V_{EN} = +6.0\text{ V}$, $I_{DD} = 105\text{ mA}$, $I_{EN} = 2.60\text{ mA}$ @ Temperature = +25°C

See TSY-83LN+ for additional test data.

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	3dB Comp. Output	Noise Figure	IP-3 Output Pout = +0
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)	(dBm)
200	15.9	-33.7	-1.9	-3.9	1.4	0.8	19.3	23.2	19.4	35.1
300	20.7	-28.6	-5.9	-8.1	1.2	0.8	21.8	23.2	2.7	35.3
400	22.2	-27.2	-12.4	-13.7	1.1	0.7	22.1	23.5	2.0	37.3
500	22.5	-26.9	-18.2	-15.7	1.1	0.6	22.4	23.7	1.7	35.5
600	22.5	-26.8	-18.3	-15.0	1.1	0.6	22.6	23.8	1.5	35.8
700	22.5	-26.8	-16.5	-14.1	1.1	0.6	22.8	23.9	1.4	39.0
800	22.5	-26.9	-15.5	-13.6	1.1	0.6	22.9	24.0	1.4	36.1
900	22.5	-26.9	-14.9	-13.4	1.1	0.6	23.0	24.2	1.3	36.7
1000	22.5	-26.9	-14.6	-13.4	1.1	0.6	23.1	24.2	1.4	35.7
1100	22.5	-26.9	-14.5	-13.6	1.1	0.6	23.1	24.1	1.4	36.2
1200	22.5	-27.0	-14.6	-13.9	1.1	0.6	23.1	24.2	1.4	35.1
1300	22.6	-27.1	-15.0	-14.1	1.1	0.6	23.0	24.3	1.4	36.7
1400	22.6	-27.1	-15.3	-14.6	1.1	0.6	23.0	24.2	1.4	34.9
1500	22.6	-27.1	-15.9	-15.3	1.1	0.6	23.0	24.4	1.4	35.4
1600	22.6	-27.2	-16.3	-16.0	1.1	0.7	23.0	24.4	1.4	35.1
1700	22.6	-27.3	-16.6	-16.7	1.1	0.7	23.1	24.5	1.4	34.8
1800	22.6	-27.2	-17.1	-17.6	1.1	0.7	23.0	24.5	1.4	32.6
1900	22.6	-27.2	-17.5	-18.9	1.1	0.7	22.9	24.5	1.4	35.0
2000	22.7	-27.4	-17.6	-20.5	1.2	0.7	22.8	24.3	1.5	33.7
2100	22.7	-27.3	-17.6	-22.3	1.1	0.7	22.8	24.6	1.5	35.8
2200	22.7	-27.4	-17.6	-24.5	1.2	0.7	22.9	24.6	1.5	34.2
2300	22.7	-27.5	-17.4	-26.3	1.2	0.7	22.8	24.6	1.5	33.4
2400	22.7	-27.6	-17.0	-27.9	1.2	0.7	22.6	24.8	1.6	33.1
2500	22.8	-27.5	-16.7	-27.8	1.2	0.7	22.5	25.0	1.6	33.4
2600	22.8	-27.7	-16.1	-27.2	1.2	0.7	22.4	25.0	1.6	34.3
2700	22.7	-27.8	-15.8	-26.6	1.2	0.7	22.3	24.8	1.7	31.8
2800	22.7	-27.8	-15.0	-24.2	1.2	0.7	22.1	24.6	1.7	32.7
2900	22.7	-27.9	-14.7	-22.9	1.2	0.7	22.0	24.4	1.7	31.0
3000	22.7	-27.9	-14.2	-21.5	1.2	0.8	21.8	24.5	1.7	31.5
3100	22.6	-27.9	-13.8	-20.5	1.2	0.7	21.6	24.5	1.7	31.4
3200	22.7	-27.8	-13.4	-19.7	1.2	0.7	21.4	24.1	1.7	30.8
3300	22.7	-28.0	-12.9	-18.8	1.2	0.7	21.4	24.0	1.7	31.4
3400	22.7	-28.0	-12.6	-18.1	1.2	0.7	21.5	24.0	1.7	31.3
3500	22.7	-28.0	-12.3	-17.7	1.2	0.7	21.5	24.6	1.8	29.9
3600	22.7	-28.0	-12.3	-17.5	1.2	0.7	21.5	24.6	1.6	31.6
3700	22.8	-28.1	-12.2	-17.5	1.2	0.7	21.4	24.3	1.7	30.6
3800	22.8	-28.3	-12.2	-17.6	1.2	0.8	21.6	24.4	1.7	30.0
3900	22.8	-28.2	-12.0	-17.9	1.2	0.8	21.9	24.5	1.7	31.5
4000	22.9	-28.3	-11.8	-18.0	1.2	0.8	22.1	24.7	1.6	29.8
4100	22.9	-28.3	-11.8	-18.2	1.2	0.8	22.2	24.9	1.6	30.4
4200	22.9	-28.5	-11.9	-18.5	1.2	0.8	22.2	24.8	1.6	29.9
4300	22.9	-28.5	-12.2	-18.9	1.2	0.8	22.3	24.7	1.6	30.8
4400	23.0	-28.6	-12.5	-19.2	1.2	0.8	22.3	24.7	1.6	30.1
4500	23.0	-28.5	-12.9	-20.5	1.2	0.8	22.4	24.9	1.6	30.2
4600	22.9	-28.3	-13.6	-22.1	1.2	0.8	22.5	25.0	1.6	29.6
4700	23.0	-28.3	-13.6	-23.8	1.2	0.8	22.4	24.9	1.6	29.6
4800	23.1	-28.4	-13.6	-25.2	1.2	0.8	22.4	24.8	1.6	29.5
4900	23.2	-28.4	-13.6	-27.5	1.2	0.8	22.4	24.9	1.6	30.0
5000	23.3	-28.3	-13.8	-29.8	1.2	0.8	22.5	24.9	1.6	30.6
5100	23.4	-28.5	-14.3	-31.9	1.2	0.8	22.4	24.8	1.6	29.6
5200	23.5	-28.6	-14.7	-34.6	1.2	0.8	22.0	24.6	1.6	29.2
5300	23.6	-28.7	-15.3	-36.7	1.2	0.8	21.9	24.5	1.6	28.7
5400	23.7	-29.0	-16.5	-34.8	1.2	0.8	22.0	24.5	1.6	29.2
5500	23.7	-29.1	-18.1	-33.7	1.2	0.8	22.3	24.6	1.6	28.5
5600	23.5	-29.1	-21.0	-28.9	1.3	0.8	22.5	24.7	1.7	29.2
5700	23.5	-29.0	-22.7	-26.6	1.3	0.8	22.3	24.6	1.7	29.1
5800	23.5	-28.8	-22.8	-24.9	1.2	0.7	21.9	24.4	1.7	28.4
5900	23.6	-28.7	-23.8	-24.4	1.2	0.7	21.5	24.2	1.7	27.9
6000	23.8	-28.6	-24.9	-24.7	1.2	0.7	21.3	23.7	1.7	28.1
6100	24.0	-28.7	-24.5	-25.6	1.2	0.7	21.3	23.7	1.8	27.5
6200	24.2	-28.7	-23.5	-27.8	1.2	0.7	21.3	23.2	1.8	27.1
6300	24.3	-28.9	-21.6	-29.3	1.2	0.7	21.4	23.1	1.8	27.7
6400	24.3	-29.0	-19.3	-28.8	1.2	0.7	21.2	22.7	1.9	27.3
6500	24.3	-29.4	-17.2	-27.2	1.2	0.8	20.7	22.4	1.9	27.0
6600	24.3	-29.6	-15.0	-23.7	1.2	0.8	20.1	22.3	1.9	26.1
6700	24.3	-30.0	-12.8	-20.1	1.2	0.8	19.8	21.9	2.0	25.9
6800	23.9	-30.7	-11.3	-18.0	1.3	0.9	19.9	21.8	2.0	25.3
6900	23.5	-31.0	-10.7	-17.9	1.4	0.9	20.4	21.6	2.0	26.4
7000	23.2	-31.2	-10.0	-18.3	1.4	0.9	20.6	21.4	2.1	26.6
7100	23.5	-31.2	-9.7	-17.3	1.4	0.9	20.4	21.4	2.1	25.8
7200	23.5	-31.2	-8.8	-14.7	1.4	0.9	20.0	21.6	2.1	24.7
7300	23.4	-31.4	-8.1	-13.3	1.4	0.9	19.9	21.6	2.2	24.4
7400	23.3	-32.1	-7.0	-11.4	1.4	0.9	20.2	21.8	2.2	25.8
7500	23.1	-32.7	-6.1	-10.1	1.4	0.9	20.7	21.3	2.3	24.9
7600	22.7	-33.7	-5.4	-9.0	1.5	1.0	20.9	21.2	2.3	25.1
7700	22.2	-34.8	-4.8	-8.1	1.6	1.0	20.6	21.1	2.4	24.3
7800	21.7	-35.9	-4.2	-7.2	1.7	1.0	20.1	20.8	2.4	23.9
7900	21.0	-37.6	-3.8	-6.6	2.0	1.0	19.7	20.5	2.5	23.7
8000	20.2	-39.6	-3.4	-6.0	2.4	1.0	19.5	20.0	2.5	24.5

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +6.0\text{ V}$, $V_{EN} = +6.0\text{ V}$, $I_{DD} = 110\text{ mA}$, $I_{EN} = 2.58\text{ mA}$ @ Temperature = +25°C

See TSY-83LN+ for additional test data.

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	3dB Comp. Output	Noise Figure	IP-3 Output Pout = +0
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)	(dBm)
5500	23.1	-29.1	-11.1	-11.2	1.2	0.7	21.9	24.2	1.5	28.8
5600	23.1	-29.0	-11.6	-11.4	1.2	0.7	22.2	24.5	1.4	28.7
5700	23.2	-28.9	-11.7	-11.8	1.2	0.7	22.3	24.5	1.4	28.8
5800	23.3	-28.7	-11.5	-12.3	1.2	0.7	21.8	24.3	1.4	28.4
5900	23.5	-28.7	-11.1	-12.8	1.2	0.7	22.1	24.5	1.4	28.6
6000	23.7	-28.7	-10.9	-12.9	1.2	0.7	21.9	24.4	1.5	28.4
6100	23.8	-28.8	-10.9	-12.9	1.2	0.7	21.5	24.2	1.5	28.0
6200	23.9	-28.8	-11.0	-12.8	1.2	0.7	21.3	24.0	1.5	27.8
6300	24.0	-29.0	-11.0	-12.8	1.2	0.7	20.8	23.5	1.6	27.0
6400	24.1	-29.1	-11.0	-12.6	1.2	0.7	20.9	23.3	1.6	26.5
6500	24.2	-29.3	-11.0	-12.3	1.2	0.7	21.0	23.1	1.5	26.6
6600	24.1	-29.5	-11.3	-12.2	1.2	0.7	21.3	23.3	1.6	26.8
6700	24.1	-29.7	-11.4	-12.0	1.2	0.7	21.5	23.3	1.6	27.0
6800	24.1	-29.7	-11.9	-12.3	1.2	0.7	21.6	23.4	1.6	26.9
6900	24.0	-29.9	-12.3	-12.4	1.2	0.7	21.4	23.0	1.7	27.0
7000	24.1	-29.7	-12.7	-12.6	1.2	0.7	21.7	23.1	1.7	26.7
7100	24.3	-29.7	-12.6	-12.4	1.2	0.7	21.7	23.1	1.7	26.8
7200	24.3	-29.8	-12.4	-12.1	1.2	0.7	21.8	23.2	1.7	27.0
7300	24.4	-29.9	-12.3	-11.8	1.2	0.7	21.4	22.9	1.7	26.5
7400	24.5	-30.2	-12.0	-11.3	1.2	0.7	21.3	22.7	1.8	26.0
7500	24.5	-30.5	-11.8	-11.1	1.2	0.7	21.6	22.8	1.8	26.2
7600	24.5	-30.7	-11.4	-10.9	1.3	0.7	21.2	22.6	1.9	26.4
7700	24.4	-31.2	-10.9	-10.7	1.3	0.7	21.7	22.9	2.0	26.2
7800	24.3	-31.7	-10.4	-10.7	1.3	0.8	21.2	22.5	2.0	26.4
7900	24.2	-32.1	-9.8	-10.8	1.4	0.8	21.0	22.4	2.1	25.9
8000	24.0	-32.7	-9.1	-11.2	1.5	0.9	20.8	22.3	2.2	26.0
8100	23.7	-33.3	-8.4	-11.7	1.6	0.9	21.4	22.7	2.3	25.7
8200	23.3	-33.9	-7.7	-12.9	1.7	1.0	21.1	22.6	2.5	26.1
8300	22.9	-34.0	-7.3	-14.3	1.7	1.0	20.5	22.0	2.6	25.8
8400	22.6	-34.3	-6.9	-15.3	1.8	1.1	20.6	22.1	2.7	26.0
8500	22.4	-34.6	-6.4	-16.0	1.9	1.1	20.1	21.7	2.9	25.1

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions**Definitions:**

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +6.0\text{ V}$, $V_{EN} = 0\text{ V}$, $I_{DD} = 4\text{ mA}$, $I_{EN} = 0\text{ mA}$ @ Temperature = $+25^\circ\text{C}$

See TSY-83LN+ for additional test data.

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dB)
200	-3.2	-3.4	-4.2	-7.2	1.1	0.7	2.6
300	-1.9	-2.1	-6.8	-10.2	1.0	0.5	2.8
400	-1.4	-1.5	-9.3	-12.6	1.0	0.4	1.6
500	-1.1	-1.2	-11.8	-14.8	1.0	0.4	1.7
600	-0.9	-1.1	-14.3	-16.8	1.0	0.4	1.0
700	-0.9	-1.0	-17.1	-18.4	1.0	0.4	0.8
800	-0.8	-1.0	-20.3	-19.5	1.0	0.4	0.8
900	-0.8	-1.0	-24.6	-20.1	1.0	0.3	0.8
1000	-0.8	-1.0	-31.2	-20.4	1.0	0.3	0.8
1100	-0.8	-0.9	-45.8	-20.2	1.0	0.3	0.9
1200	-0.8	-1.0	-32.0	-19.9	1.0	0.3	1.0
1300	-0.8	-1.0	-26.9	-19.3	1.0	0.3	0.9
1400	-0.8	-1.0	-23.9	-18.8	1.0	0.4	1.1
1500	-0.8	-1.0	-22.0	-18.2	1.0	0.4	0.8
1600	-0.8	-1.1	-20.8	-17.7	1.0	0.4	0.9
1700	-0.8	-1.1	-19.9	-17.3	1.0	0.4	0.7
1800	-0.9	-1.1	-19.1	-17.2	1.0	0.4	1.2
1900	-0.9	-1.2	-18.3	-17.1	1.0	0.4	0.8
2000	-0.9	-1.2	-17.7	-17.2	1.0	0.4	1.1
2100	-0.9	-1.2	-17.1	-17.3	1.0	0.4	1.1
2200	-1.0	-1.3	-16.6	-17.6	1.0	0.4	1.2
2300	-1.0	-1.3	-16.3	-18.0	1.0	0.4	1.3
2400	-1.0	-1.3	-16.0	-18.5	1.0	0.5	1.3
2500	-1.0	-1.4	-15.8	-18.9	1.0	0.5	1.6
2600	-1.0	-1.4	-15.8	-19.3	1.0	0.5	1.5
2700	-1.1	-1.5	-15.8	-19.9	1.0	0.5	1.0
2800	-1.1	-1.6	-15.8	-20.5	1.0	0.5	1.4
2900	-1.1	-1.6	-15.8	-21.5	1.0	0.5	1.6
3000	-1.1	-1.6	-15.9	-22.6	1.1	0.5	1.8
3100	-1.1	-1.6	-15.8	-23.8	1.0	0.5	1.5
3200	-1.1	-1.6	-15.8	-25.2	1.0	0.5	1.6
3300	-1.1	-1.6	-15.8	-27.6	1.0	0.5	1.1
3400	-1.1	-1.6	-15.8	-31.0	1.0	0.5	1.3
3500	-1.1	-1.6	-15.7	-34.2	1.0	0.5	1.4
3600	-1.2	-1.6	-15.7	-31.9	1.0	0.5	1.2
3700	-1.2	-1.6	-15.4	-28.0	1.1	0.5	1.6
3800	-1.2	-1.6	-15.1	-24.4	1.1	0.5	1.6
3900	-1.2	-1.6	-14.8	-22.0	1.1	0.5	1.5
4000	-1.2	-1.6	-14.3	-20.4	1.1	0.5	2.0
4100	-1.3	-1.7	-14.0	-18.9	1.1	0.5	1.5
4200	-1.3	-1.7	-13.6	-17.6	1.1	0.5	1.5
4300	-1.3	-1.8	-13.1	-16.5	1.1	0.5	1.6
4400	-1.4	-1.8	-12.6	-15.4	1.1	0.5	1.9
4500	-1.4	-1.9	-12.1	-14.4	1.1	0.5	1.8
4600	-1.4	-1.9	-11.5	-13.5	1.1	0.5	1.6
4700	-1.5	-1.9	-11.1	-12.9	1.1	0.5	1.6
4800	-1.5	-2.0	-10.8	-12.3	1.1	0.5	2.1
4900	-1.5	-2.0	-10.4	-11.8	1.1	0.5	1.6
5000	-1.5	-2.1	-10.2	-11.3	1.1	0.5	1.7
5100	-1.6	-2.1	-9.9	-11.0	1.1	0.5	1.7
5200	-1.6	-2.2	-9.7	-10.6	1.1	0.5	1.5
5300	-1.6	-2.2	-9.5	-10.4	1.1	0.5	1.4
5400	-1.7	-2.3	-9.3	-10.1	1.1	0.5	1.8
5500	-1.7	-2.3	-9.2	-9.9	1.1	0.5	2.2
5600	-1.8	-2.4	-8.9	-9.6	1.1	0.5	1.6
5700	-1.8	-2.4	-8.7	-9.4	1.1	0.5	2.0
5800	-1.8	-2.4	-8.5	-9.2	1.1	0.5	2.3
5900	-1.8	-2.4	-8.4	-9.0	1.1	0.5	1.9
6000	-1.8	-2.4	-8.4	-8.9	1.1	0.5	2.3
6100	-1.7	-2.4	-8.4	-8.8	1.1	0.5	1.9
6200	-1.7	-2.4	-8.4	-8.9	1.1	0.5	1.8
6300	-1.7	-2.4	-8.5	-8.9	1.1	0.5	2.2
6400	-1.7	-2.5	-8.5	-8.9	1.1	0.5	1.8
6500	-1.8	-2.5	-8.5	-8.9	1.1	0.5	1.9
6600	-1.8	-2.5	-8.6	-8.9	1.1	0.5	2.1
6700	-1.8	-2.5	-8.7	-9.0	1.1	0.5	2.6
6800	-1.8	-2.6	-8.7	-9.1	1.1	0.5	2.0
6900	-1.8	-2.6	-8.7	-9.0	1.1	0.5	2.2
7000	-1.9	-2.6	-8.7	-8.9	1.1	0.5	2.0
7100	-1.8	-2.6	-8.8	-8.8	1.1	0.5	1.8
7200	-1.8	-2.6	-8.8	-8.8	1.1	0.5	2.3
7300	-1.8	-2.6	-8.8	-8.8	1.1	0.5	2.4
7400	-1.8	-2.6	-8.9	-8.8	1.1	0.5	1.8
7500	-1.8	-2.6	-8.9	-8.8	1.1	0.5	2.4
7600	-1.8	-2.6	-8.9	-8.7	1.1	0.5	2.6
7700	-1.9	-2.7	-8.9	-8.7	1.1	0.5	1.9
7800	-1.9	-2.7	-8.9	-8.7	1.1	0.5	1.8
7900	-2.0	-2.7	-8.9	-8.6	1.1	0.6	2.5
8000	-2.1	-2.8	-8.8	-8.6	1.1	0.6	3.0

*Typical Performance Data***NOTE: Use PDF Bookmarks to view DATA at required conditions****Definitions:**

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +6.0\text{ V}$, $V_{EN} = 0\text{ V}$, $I_{DD} = 4\text{ mA}$, $I_{EN} = 0\text{ mA}$ @ Temperature = +25°C

See TSY-83LN+ for additional test data.

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dB)
5500	-1.2	-1.8	-18.6	-20.6	1.1	0.6	1.9
5600	-1.2	-1.8	-19.5	-23.7	1.1	0.6	1.4
5700	-1.2	-1.8	-19.7	-27.5	1.1	0.6	1.3
5800	-1.1	-1.8	-19.5	-28.7	1.1	0.6	1.9
5900	-1.1	-1.8	-19.2	-25.4	1.1	0.6	1.5
6000	-1.1	-1.8	-18.5	-22.5	1.1	0.6	1.0
6100	-1.1	-1.8	-17.6	-20.1	1.1	0.6	1.5
6200	-1.2	-1.8	-16.5	-18.2	1.1	0.6	1.2
6300	-1.2	-1.9	-15.5	-16.6	1.1	0.6	1.5
6400	-1.2	-1.9	-14.6	-15.3	1.1	0.6	1.9
6500	-1.3	-2.0	-13.7	-14.2	1.1	0.6	1.8
6600	-1.4	-2.1	-12.9	-13.2	1.1	0.6	1.5
6700	-1.5	-2.2	-12.1	-12.4	1.1	0.6	1.4
6800	-1.6	-2.3	-11.3	-11.5	1.1	0.6	1.8
6900	-1.7	-2.4	-10.6	-10.8	1.1	0.6	1.8
7000	-1.7	-2.5	-10.0	-10.0	1.1	0.6	1.9
7100	-1.8	-2.6	-9.4	-9.3	1.1	0.6	1.7
7200	-1.9	-2.7	-8.9	-8.7	1.1	0.6	1.6
7300	-2.0	-2.8	-8.4	-8.2	1.1	0.6	1.3
7400	-2.1	-2.9	-7.9	-7.7	1.1	0.5	2.1
7500	-2.3	-3.1	-7.5	-7.3	1.1	0.5	1.2
7600	-2.5	-3.2	-7.0	-6.9	1.1	0.5	1.7
7700	-2.7	-3.4	-6.6	-6.5	1.1	0.5	2.3
7800	-2.9	-3.6	-6.2	-6.1	1.1	0.5	2.2
7900	-3.1	-3.8	-5.9	-5.8	1.1	0.5	2.3
8000	-3.3	-4.0	-5.5	-5.4	1.1	0.5	1.5
8100	-3.5	-4.3	-5.2	-5.1	1.1	0.5	2.7
8200	-3.9	-4.6	-4.9	-4.9	1.1	0.5	2.4
8300	-4.1	-4.9	-4.5	-4.5	1.2	0.5	2.1
8400	-4.4	-5.1	-4.2	-4.2	1.2	0.5	2.2
8500	-4.7	-5.4	-3.9	-3.9	1.2	0.5	1.6

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +6.25\text{ V}$, $V_{EN} = +6.25\text{ V}$, $I_{DD} = 110\text{ mA}$, $I_{EN} = 2.70\text{ mA}$ @ Temperature = +25°C

See TSY-83LN+ for additional test data.

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	3dB Comp. Output	Noise Figure	IP-3 Output Pout = +0
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)	(dBm)
200	16.0	-33.6	-1.9	-3.9	1.4	0.8	22.1	23.7	18.1	33.1
300	20.8	-28.8	-5.9	-8.0	1.2	0.8	22.1	23.7	2.7	34.1
400	22.3	-27.3	-12.4	-13.6	1.1	0.7	22.4	24.0	2.0	34.8
500	22.6	-26.9	-18.0	-15.7	1.1	0.6	22.7	24.0	1.7	33.8
600	22.7	-26.8	-17.7	-14.7	1.1	0.6	23.1	24.1	1.5	35.6
700	22.7	-26.9	-16.1	-13.9	1.1	0.6	23.1	24.3	1.4	35.5
800	22.7	-26.9	-15.0	-13.3	1.1	0.6	23.3	24.4	1.4	39.3
900	22.6	-27.0	-14.5	-13.1	1.1	0.6	23.4	24.4	1.4	36.6
1000	22.7	-27.0	-14.2	-13.1	1.1	0.6	23.4	24.5	1.4	34.4
1100	22.7	-27.1	-14.2	-13.3	1.1	0.6	23.4	24.5	1.4	36.3
1200	22.7	-27.0	-14.2	-13.6	1.1	0.6	23.4	24.6	1.4	34.3
1300	22.7	-27.0	-14.5	-13.9	1.1	0.6	23.3	24.8	1.4	34.1
1400	22.7	-27.1	-14.9	-14.5	1.1	0.6	23.3	24.6	1.3	35.9
1500	22.7	-27.2	-15.4	-15.2	1.1	0.6	23.2	24.7	1.4	34.4
1600	22.7	-27.2	-15.4	-15.8	1.1	0.6	23.4	24.8	1.4	37.5
1700	22.8	-27.1	-16.0	-16.3	1.1	0.6	23.4	24.8	1.5	34.6
1800	22.8	-27.1	-16.6	-17.4	1.1	0.6	23.2	25.0	1.5	34.1
1900	22.9	-27.2	-17.0	-18.5	1.1	0.6	23.3	25.0	1.5	38.5
2000	22.9	-27.2	-17.4	-19.9	1.1	0.6	23.0	24.7	1.5	36.1
2100	22.9	-27.3	-17.5	-21.6	1.1	0.7	23.0	24.9	1.6	36.3
2200	22.9	-27.4	-17.4	-23.6	1.1	0.7	23.1	25.0	1.5	34.1
2300	22.9	-27.4	-17.5	-25.1	1.1	0.7	23.3	25.1	1.5	33.0
2400	22.9	-27.4	-17.5	-26.6	1.1	0.7	23.2	25.3	1.6	34.8
2500	23.0	-27.5	-17.2	-27.6	1.2	0.7	23.1	25.3	1.6	33.0
2600	23.0	-27.6	-16.7	-27.3	1.2	0.7	23.0	25.2	1.6	33.7
2700	22.9	-27.7	-16.2	-26.2	1.2	0.7	22.6	24.9	1.7	33.9
2800	22.9	-27.7	-15.7	-24.7	1.2	0.7	22.7	25.2	1.7	32.4
2900	22.9	-27.7	-15.5	-23.5	1.2	0.7	22.5	24.8	1.7	32.0
3000	22.9	-27.7	-14.9	-22.0	1.2	0.7	22.3	24.6	1.7	33.0
3100	22.9	-27.7	-14.1	-20.6	1.2	0.7	22.2	24.5	1.7	32.9
3200	23.0	-27.8	-13.5	-19.8	1.2	0.7	22.1	24.5	1.7	31.4
3300	23.0	-27.8	-13.0	-19.1	1.2	0.7	21.9	24.6	1.7	32.5
3400	23.0	-27.9	-12.5	-18.5	1.2	0.7	21.9	24.7	1.7	31.2
3500	23.0	-28.0	-12.2	-18.1	1.2	0.7	22.2	25.0	1.7	31.5
3600	23.0	-28.0	-12.0	-17.8	1.2	0.7	22.2	24.9	1.7	30.6
3700	23.0	-28.1	-11.8	-17.7	1.2	0.7	21.7	24.3	1.6	31.2
3800	23.0	-28.2	-11.8	-17.6	1.2	0.7	22.0	24.7	1.6	30.5
3900	23.0	-28.3	-12.0	-17.9	1.2	0.7	22.0	24.7	1.6	29.8
4000	23.0	-28.2	-12.2	-18.6	1.2	0.7	22.3	25.0	1.6	31.0
4100	23.0	-28.1	-12.3	-19.2	1.2	0.7	22.6	25.2	1.6	31.3
4200	23.1	-28.1	-12.2	-19.9	1.2	0.7	22.5	25.1	1.6	31.6
4300	23.1	-28.0	-12.1	-20.4	1.2	0.7	22.7	25.1	1.6	30.5
4400	23.2	-28.2	-12.2	-21.1	1.2	0.7	22.7	25.0	1.6	30.9
4500	23.3	-28.2	-12.2	-21.9	1.2	0.7	22.9	25.0	1.6	31.0
4600	23.3	-28.3	-12.3	-22.7	1.2	0.7	22.9	25.0	1.6	30.8
4700	23.4	-28.4	-12.6	-23.6	1.2	0.7	23.0	25.1	1.6	30.3
4800	23.5	-28.4	-13.0	-24.8	1.2	0.7	22.9	25.2	1.6	30.4
4900	23.5	-28.6	-13.8	-25.8	1.2	0.8	23.0	25.2	1.6	29.6
5000	23.5	-28.7	-14.5	-27.4	1.2	0.8	22.8	25.2	1.6	29.8
5100	23.4	-28.6	-15.5	-29.6	1.2	0.8	22.8	25.1	1.6	30.1
5200	23.5	-28.5	-15.9	-31.4	1.2	0.7	22.5	25.0	1.7	29.2
5300	23.6	-28.5	-16.1	-33.2	1.2	0.7	22.3	24.8	1.7	28.7
5400	23.8	-28.5	-16.5	-32.9	1.2	0.7	22.5	24.8	1.6	28.8
5500	23.8	-28.6	-17.5	-31.3	1.2	0.7	22.8	25.0	1.6	28.8
5600	23.9	-28.7	-18.3	-30.8	1.2	0.7	22.8	25.0	1.6	29.4
5700	23.9	-28.7	-19.8	-29.2	1.2	0.7	22.6	24.8	1.6	29.2
5800	24.0	-28.8	-21.8	-29.7	1.2	0.7	21.9	24.5	1.7	29.9
5900	24.0	-28.8	-22.4	-27.0	1.2	0.7	21.8	24.2	1.7	28.2
6000	24.0	-28.8	-25.1	-26.9	1.2	0.7	22.1	24.3	1.7	27.8
6100	24.2	-28.8	-23.8	-27.9	1.2	0.7	21.6	23.8	1.8	27.7
6200	24.3	-28.9	-24.2	-27.9	1.2	0.7	21.7	23.9	1.9	27.1
6300	24.4	-29.1	-21.6	-30.2	1.2	0.7	21.2	23.4	1.8	27.6
6400	24.4	-29.2	-19.5	-29.0	1.2	0.7	21.1	23.1	1.9	27.2
6500	24.4	-29.4	-17.5	-27.1	1.2	0.7	20.9	22.7	1.9	26.7
6600	24.3	-29.6	-16.1	-26.2	1.2	0.8	20.8	22.6	2.0	27.7
6700	24.2	-29.8	-14.3	-23.4	1.2	0.8	20.9	22.6	2.0	27.3
6800	24.3	-29.8	-12.8	-20.9	1.2	0.8	20.9	22.4	2.1	26.4
6900	24.0	-30.2	-11.2	-19.5	1.3	0.8	20.8	22.0	2.1	26.1
7000	24.0	-30.6	-9.7	-17.8	1.3	0.9	21.0	22.0	2.1	26.5
7100	23.9	-30.6	-9.6	-16.8	1.3	0.9	21.3	22.3	2.2	26.3
7200	23.9	-31.2	-8.0	-13.4	1.3	0.9	20.7	21.9	2.2	26.4
7300	23.7	-31.6	-7.3	-12.2	1.3	0.9	20.3	21.5	2.2	25.6
7400	23.5	-32.3	-6.4	-10.8	1.4	0.9	20.5	21.6	2.3	25.6
7500	23.1	-33.0	-5.5	-9.6	1.4	1.0	21.0	21.8	2.3	25.4
7600	22.6	-34.1	-5.0	-8.8	1.5	1.0	20.7	21.4	2.4	25.7
7700	22.2	-35.1	-4.4	-7.9	1.6	1.0	20.6	21.1	2.5	25.4
7800	21.5	-36.4	-4.0	-7.3	1.8	1.0	20.3	20.8	2.5	25.3
7900	20.9	-37.7	-3.7	-6.8	2.1	1.0	20.0	20.4	2.5	24.7
8000	20.2	-39.1	-3.5	-6.4	2.4	1.0	19.7	20.2	2.6	24.5

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +6.25\text{ V}$, $V_{EN} = +6.25\text{ V}$, $I_{DD} = 118\text{ mA}$, $I_{EN} = 2.68\text{ mA}$ @ Temperature = +25°C

See TSY-83LN+ for additional test data.

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	3dB Comp. Output	Noise Figure	IP-3 Output Pout = +0
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)	(dBm)
5500	23.0	-29.5	-11.2	-11.2	1.3	0.7	22.1	24.1	1.5	28.9
5600	23.0	-29.4	-11.7	-11.4	1.3	0.7	22.4	24.3	1.5	28.5
5700	23.0	-29.3	-11.8	-11.8	1.3	0.7	22.5	24.4	1.5	28.8
5800	23.2	-29.2	-11.6	-12.2	1.2	0.7	22.0	24.1	1.5	28.3
5900	23.4	-29.1	-11.2	-12.6	1.2	0.7	22.2	24.3	1.5	28.7
6000	23.5	-29.3	-11.0	-12.6	1.2	0.7	22.1	24.3	1.5	28.3
6100	23.6	-29.3	-11.0	-12.6	1.2	0.7	21.5	24.0	1.6	28.1
6200	23.7	-29.3	-11.1	-12.5	1.2	0.7	21.3	23.8	1.6	27.8
6300	23.8	-29.4	-11.1	-12.4	1.2	0.7	20.8	23.3	1.6	26.9
6400	23.9	-29.6	-11.1	-12.2	1.2	0.7	20.8	23.0	1.6	26.5
6500	24.0	-29.9	-11.1	-11.9	1.2	0.7	21.0	22.8	1.6	26.4
6600	23.9	-30.0	-11.4	-11.8	1.2	0.7	21.3	23.0	1.6	26.4
6700	23.9	-30.3	-11.7	-11.6	1.3	0.7	21.4	22.9	1.6	26.7
6800	23.9	-30.3	-12.1	-11.9	1.3	0.7	21.6	22.9	1.7	26.5
6900	23.8	-30.5	-12.6	-12.1	1.3	0.8	21.3	22.6	1.7	26.6
7000	23.9	-30.3	-12.9	-12.3	1.3	0.8	21.6	22.7	1.7	26.3
7100	24.1	-30.2	-12.8	-12.1	1.3	0.7	21.7	22.7	1.7	26.6
7200	24.1	-30.5	-12.6	-11.8	1.3	0.7	21.8	22.8	1.8	26.6
7300	24.2	-30.6	-12.5	-11.6	1.3	0.7	21.5	22.6	1.8	26.1
7400	24.3	-30.8	-12.1	-11.2	1.3	0.7	21.4	22.5	1.9	25.7
7500	24.2	-31.1	-11.8	-11.1	1.3	0.8	21.6	22.5	1.9	25.9
7600	24.2	-31.5	-11.5	-11.0	1.3	0.8	21.3	22.4	2.0	26.1
7700	24.2	-31.9	-11.0	-10.8	1.4	0.8	21.7	22.6	2.0	25.7
7800	24.1	-32.4	-10.5	-10.9	1.5	0.8	21.3	22.3	2.1	25.8
7900	23.9	-32.9	-9.8	-11.1	1.5	0.9	21.1	22.3	2.2	25.4
8000	23.7	-33.6	-9.1	-11.6	1.6	0.9	21.0	22.1	2.3	25.4
8100	23.4	-34.1	-8.4	-12.3	1.7	1.0	21.5	22.5	2.4	25.2
8200	22.9	-34.8	-7.6	-13.7	1.9	1.0	21.3	22.3	2.6	25.4
8300	22.5	-35.0	-7.2	-15.3	2.0	1.1	20.8	21.9	2.7	25.4
8400	22.2	-35.3	-6.8	-16.4	2.1	1.1	20.9	22.0	2.8	25.5
8500	21.9	-35.5	-6.3	-17.4	2.1	1.2	20.5	21.6	3.0	24.6

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +6.25\text{ V}$, $V_{EN} = 0\text{ V}$, $I_{DD} = 4\text{ mA}$, $I_{EN} = 0\text{ mA}$ @ Temperature = +25°C

See TSY-83LN+ for additional test data.

FREQ	Insertion Loss	Isolation	Input Return Loss	Output Return Loss	Stability		Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dB)
200	-3.2	-3.4	-4.2	-7.2	1.0	0.7	2.8
300	-1.9	-2.1	-6.8	-10.1	1.0	0.5	2.6
400	-1.4	-1.5	-9.3	-12.6	1.0	0.4	1.6
500	-1.1	-1.2	-11.8	-14.8	1.0	0.4	1.7
600	-0.9	-1.1	-14.3	-16.8	1.0	0.4	0.9
700	-0.9	-1.0	-17.1	-18.5	1.0	0.4	0.8
800	-0.8	-1.0	-20.3	-19.6	1.0	0.4	0.9
900	-0.8	-1.0	-24.6	-20.1	1.0	0.3	1.1
1000	-0.8	-0.9	-31.4	-20.4	1.0	0.3	0.9
1100	-0.7	-0.9	-47.5	-20.2	1.0	0.3	0.8
1200	-0.8	-0.9	-32.2	-19.9	1.0	0.3	1.1
1300	-0.8	-1.0	-27.1	-19.4	1.0	0.3	0.8
1400	-0.8	-1.0	-24.0	-18.8	1.0	0.4	0.9
1500	-0.8	-1.0	-22.0	-18.2	1.0	0.4	1.4
1600	-0.8	-1.0	-20.8	-17.7	1.0	0.4	0.9
1700	-0.8	-1.1	-19.9	-17.4	1.0	0.4	0.9
1800	-0.9	-1.1	-19.1	-17.2	1.0	0.4	0.9
1900	-0.9	-1.1	-18.4	-17.2	1.0	0.4	0.8
2000	-0.9	-1.2	-17.7	-17.2	1.0	0.4	0.8
2100	-0.9	-1.2	-17.1	-17.3	1.0	0.4	0.9
2200	-0.9	-1.2	-16.7	-17.6	1.0	0.4	0.9
2300	-1.0	-1.3	-16.3	-18.0	1.0	0.4	1.0
2400	-1.0	-1.3	-16.0	-18.5	1.0	0.4	1.1
2500	-1.0	-1.4	-15.8	-18.9	1.0	0.5	1.4
2600	-1.0	-1.4	-15.8	-19.3	1.0	0.5	1.2
2700	-1.0	-1.5	-15.9	-19.9	1.0	0.5	1.3
2800	-1.1	-1.5	-15.8	-20.6	1.0	0.5	1.4
2900	-1.1	-1.6	-15.9	-21.5	1.0	0.5	1.4
3000	-1.1	-1.6	-15.9	-22.6	1.0	0.5	1.6
3100	-1.1	-1.6	-15.9	-23.7	1.0	0.5	1.1
3200	-1.1	-1.6	-15.8	-25.3	1.0	0.5	1.1
3300	-1.1	-1.5	-15.9	-27.5	1.0	0.5	1.5
3400	-1.1	-1.5	-15.8	-30.8	1.0	0.5	1.5
3500	-1.1	-1.5	-15.7	-34.1	1.0	0.5	1.6
3600	-1.1	-1.6	-15.7	-31.5	1.0	0.5	1.7
3700	-1.1	-1.6	-15.4	-27.9	1.0	0.5	1.8
3800	-1.2	-1.6	-15.2	-24.5	1.1	0.5	1.5
3900	-1.2	-1.6	-14.8	-21.9	1.1	0.5	1.5
4000	-1.2	-1.6	-14.4	-20.3	1.1	0.5	1.8
4100	-1.2	-1.7	-14.0	-18.9	1.1	0.5	1.7
4200	-1.3	-1.7	-13.5	-17.6	1.1	0.5	1.8
4300	-1.3	-1.8	-13.1	-16.5	1.1	0.5	1.5
4400	-1.4	-1.8	-12.6	-15.4	1.1	0.5	1.8
4500	-1.4	-1.8	-12.1	-14.4	1.1	0.5	2.0
4600	-1.4	-1.9	-11.5	-13.5	1.1	0.5	1.4
4700	-1.4	-1.9	-11.1	-12.9	1.1	0.5	1.0
4800	-1.5	-2.0	-10.8	-12.3	1.1	0.5	2.3
4900	-1.5	-2.0	-10.5	-11.8	1.1	0.5	1.6
5000	-1.5	-2.1	-10.2	-11.3	1.1	0.5	1.7
5100	-1.6	-2.1	-9.9	-11.0	1.1	0.5	1.1
5200	-1.6	-2.2	-9.7	-10.6	1.1	0.5	1.1
5300	-1.6	-2.2	-9.5	-10.4	1.1	0.5	1.1
5400	-1.7	-2.3	-9.3	-10.1	1.1	0.5	2.5
5500	-1.7	-2.3	-9.1	-9.9	1.1	0.5	2.0
5600	-1.8	-2.4	-8.9	-9.6	1.1	0.5	1.7
5700	-1.8	-2.4	-8.7	-9.4	1.1	0.5	2.1
5800	-1.8	-2.4	-8.5	-9.2	1.1	0.5	2.1
5900	-1.8	-2.4	-8.4	-9.0	1.1	0.5	1.8
6000	-1.7	-2.4	-8.4	-8.9	1.1	0.5	2.0
6100	-1.7	-2.4	-8.4	-8.8	1.1	0.5	1.3
6200	-1.7	-2.4	-8.4	-8.9	1.1	0.5	1.8
6300	-1.7	-2.4	-8.5	-8.9	1.1	0.5	2.0
6400	-1.7	-2.4	-8.5	-8.9	1.1	0.5	2.3
6500	-1.8	-2.5	-8.5	-8.9	1.1	0.5	1.8
6600	-1.7	-2.5	-8.6	-8.9	1.1	0.5	1.8
6700	-1.7	-2.5	-8.7	-9.0	1.1	0.5	2.1
6800	-1.8	-2.5	-8.7	-9.1	1.1	0.5	2.4
6900	-1.8	-2.6	-8.7	-8.9	1.1	0.5	2.1
7000	-1.9	-2.6	-8.7	-8.9	1.1	0.5	2.3
7100	-1.8	-2.6	-8.8	-8.8	1.1	0.5	2.0
7200	-1.8	-2.6	-8.8	-8.8	1.1	0.5	2.5
7300	-1.8	-2.6	-8.8	-8.8	1.1	0.5	2.2
7400	-1.8	-2.6	-8.9	-8.8	1.1	0.5	2.2
7500	-1.8	-2.6	-8.9	-8.7	1.1	0.5	2.2
7600	-1.8	-2.6	-8.9	-8.7	1.1	0.5	2.3
7700	-1.9	-2.7	-8.9	-8.7	1.1	0.5	2.0
7800	-1.9	-2.7	-8.9	-8.7	1.1	0.5	2.2
7900	-2.0	-2.7	-8.9	-8.6	1.1	0.5	2.7
8000	-2.1	-2.8	-8.8	-8.5	1.1	0.6	2.2

*Typical Performance Data***NOTE: Use PDF Bookmarks to view DATA at required conditions****Definitions:**

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +6.25$ V, $V_{EN} = 0$ V, $I_{DD} = 4$ mA, $I_{EN} = 0$ mA @ Temperature = +25°C

See TSY-83LN+ for additional test data.

FREQ	Insertion Loss	Isolation	Input Return Loss	Output Return Loss	Stability		Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dB)
5500	-1.2	-1.8	-18.7	-20.6	1.1	0.6	1.7
5600	-1.2	-1.8	-19.6	-23.7	1.1	0.6	1.5
5700	-1.1	-1.8	-19.8	-27.8	1.1	0.6	1.6
5800	-1.1	-1.8	-19.6	-29.0	1.1	0.6	1.6
5900	-1.1	-1.7	-19.2	-25.6	1.1	0.6	1.1
6000	-1.1	-1.8	-18.5	-22.6	1.1	0.6	1.0
6100	-1.1	-1.8	-17.6	-20.1	1.1	0.6	1.3
6200	-1.1	-1.8	-16.5	-18.3	1.1	0.6	1.8
6300	-1.2	-1.9	-15.5	-16.6	1.1	0.6	1.7
6400	-1.2	-1.9	-14.6	-15.3	1.1	0.6	1.7
6500	-1.3	-2.0	-13.7	-14.2	1.1	0.6	1.6
6600	-1.4	-2.1	-12.9	-13.2	1.1	0.6	1.8
6700	-1.5	-2.2	-12.1	-12.4	1.1	0.6	1.3
6800	-1.5	-2.3	-11.3	-11.5	1.1	0.6	1.7
6900	-1.6	-2.4	-10.6	-10.8	1.1	0.6	1.4
7000	-1.7	-2.5	-9.9	-10.0	1.1	0.6	1.6
7100	-1.8	-2.5	-9.4	-9.3	1.1	0.6	1.8
7200	-1.9	-2.7	-8.8	-8.7	1.1	0.6	1.5
7300	-2.0	-2.8	-8.3	-8.2	1.1	0.5	1.5
7400	-2.1	-2.9	-7.9	-7.7	1.1	0.5	2.2
7500	-2.3	-3.1	-7.4	-7.3	1.1	0.5	1.4
7600	-2.5	-3.2	-7.0	-6.9	1.1	0.5	2.0
7700	-2.7	-3.4	-6.6	-6.5	1.1	0.5	1.8
7800	-2.8	-3.6	-6.2	-6.1	1.1	0.5	2.3
7900	-3.1	-3.8	-5.9	-5.8	1.1	0.5	2.1
8000	-3.3	-4.0	-5.5	-5.4	1.1	0.5	2.1
8100	-3.5	-4.3	-5.2	-5.1	1.1	0.5	3.1
8200	-3.8	-4.6	-4.9	-4.9	1.1	0.5	1.9
8300	-4.1	-4.9	-4.5	-4.5	1.2	0.5	2.6
8400	-4.4	-5.1	-4.2	-4.2	1.2	0.5	2.1
8500	-4.6	-5.3	-3.9	-3.9	1.2	0.5	2.2