

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: V_{CC} = +5V, V_B = +5V, V_C = +5V, I_{CC} = 85mA, I_B = 4.7mA, I_C = 1.2mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Input	IP-3 Output	1dB Comp. Output	3dB Comp. Output	Noise Figure
					K	Measure					
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
0.01	19.8	53.1	-16.8	-17.5	22.5	1.0	-	-	20.0	21.7	21.4
0.02	19.7	63.2	-16.8	-18.6	72.6	1.0	9.6	29.4	20.0	21.8	20.5
0.03	19.6	64.3	-16.6	-18.7	83.8	1.0	11.9	31.5	19.9	21.8	20.9
0.04	19.6	74.3	-16.5	-18.7	264.3	1.0	10.6	30.2	20.1	22.2	20.9
0.05	19.5	62.7	-16.4	-18.6	70.3	1.0	10.4	30.0	20.1	22.2	20.9
0.06	19.5	67.9	-16.4	-18.5	128.7	1.0	10.0	29.5	20.0	22.1	20.9
0.07	19.5	63.0	-16.4	-18.5	73.2	1.0	10.5	30.0	20.0	22.1	20.8
0.08	19.4	71.7	-16.4	-18.5	198.9	1.0	11.2	30.7	19.9	22.2	20.6
0.09	19.4	62.3	-16.4	-18.6	68.2	1.0	10.0	29.4	19.8	22.0	20.6
0.10	19.4	73.7	-16.4	-18.7	252.8	1.0	11.6	31.0	19.8	21.9	20.5
0.20	19.1	71.7	-16.7	-19.8	208.5	1.0	9.0	28.2	19.3	21.7	19.4
0.25	18.9	67.2	-17.1	-21.0	127.9	1.0	8.3	27.2	18.5	21.2	17.9
0.50	18.6	61.9	-16.3	-21.5	72.1	1.0	9.0	27.7	18.0	20.9	15.4
1.00	17.8	59.7	-14.6	-24.8	61.9	1.0	8.4	26.2	17.3	20.5	11.5
1.50	17.7	55.9	-14.9	-18.5	40.1	1.0	7.9	25.6	16.9	20.6	9.1
2.00	17.8	53.6	-15.1	-15.6	30.4	1.0	8.1	26.0	17.2	20.8	7.6
2.50	17.9	51.2	-14.9	-14.2	22.6	1.0	8.2	26.1	17.3	20.8	6.6
3.00	17.8	51.7	-13.9	-13.9	24.2	1.0	8.1	26.0	17.4	20.9	6.1
3.50	17.7	55.5	-13.0	-13.8	37.7	1.0	8.1	25.8	17.7	21.0	5.5
4.00	17.8	54.6	-12.9	-14.2	34.0	1.0	8.2	26.1	17.8	21.2	5.1
4.50	17.9	51.2	-13.3	-15.1	23.1	1.0	9.3	27.3	18.0	21.3	4.7
5.00	18.0	48.8	-13.8	-15.7	17.7	1.0	8.3	26.3	17.9	21.1	4.3
5.50	17.9	47.3	-14.1	-16.6	15.2	1.0	8.9	26.9	17.9	21.0	4.0
6.00	17.9	45.4	-14.5	-19.0	12.5	1.0	8.9	26.8	17.7	20.6	3.9
6.50	17.9	44.9	-15.0	-23.5	12.0	1.0	9.2	27.1	17.8	20.9	3.6
7.00	17.8	43.9	-15.3	-30.4	10.9	1.0	8.9	26.7	17.8	20.8	3.5
7.50	17.8	42.7	-15.4	-37.5	9.6	1.0	9.2	27.0	17.9	20.8	3.5
8.00	17.8	41.9	-15.9	-27.8	8.9	1.0	9.4	27.1	18.0	20.7	3.5
8.50	17.8	41.7	-17.5	-23.2	8.7	1.0	9.4	27.2	18.0	20.5	3.5
9.00	17.9	41.1	-21.6	-22.1	8.2	1.0	8.9	26.9	18.2	20.8	3.6
9.50	18.0	40.3	-29.2	-21.9	7.5	1.0	8.5	26.5	18.3	20.7	3.7
10.00	18.0	39.7	-23.2	-20.4	7.0	1.0	9.3	27.3	18.3	20.5	3.7
10.50	18.1	39.5	-19.3	-19.0	6.7	1.0	8.4	26.5	18.5	20.6	3.7
11.00	18.1	38.9	-17.4	-18.1	6.2	1.0	8.9	27.0	18.0	20.1	3.8
11.50	17.9	38.5	-16.1	-16.7	6.0	1.0	8.9	26.8	18.1	20.1	3.8
12.00	17.8	38.2	-14.9	-15.8	5.9	1.0	9.0	26.8	17.6	19.6	3.8
12.50	17.6	37.7	-14.1	-15.4	5.7	1.0	9.2	26.7	17.8	19.6	3.9
13.00	17.3	37.2	-13.8	-13.9	5.5	1.0	9.4	26.7	17.6	19.2	3.9
13.50	17.0	36.9	-13.9	-12.1	5.4	1.0	9.8	26.8	17.2	18.9	4.2
14.00	16.7	36.8	-14.2	-11.3	5.5	0.9	10.0	26.8	17.0	18.6	4.3
14.50	16.5	36.9	-15.0	-11.1	5.7	0.9	10.7	27.2	17.1	18.7	4.4
15.00	16.4	37.7	-16.2	-10.8	6.3	0.9	11.4	27.7	17.3	18.8	4.8
15.50	16.4	38.3	-17.0	-10.2	6.8	0.9	10.9	27.2	17.3	18.9	5.1
16.00	16.8	36.9	-18.5	-11.0	5.7	0.9	9.7	26.5	17.4	19.0	5.1
16.50	17.2	35.5	-19.0	-12.5	4.7	0.9	10.3	27.5	17.5	19.0	5.1
17.00	17.5	34.6	-17.5	-14.2	4.2	1.0	8.1	25.6	17.3	18.7	5.1
17.50	17.7	33.7	-15.7	-16.3	3.7	1.0	8.3	26.0	17.0	18.5	5.1
18.00	17.7	33.1	-15.5	-15.3	3.5	1.0	7.7	25.4	16.7	18.2	5.1
18.50	17.7	32.7	-16.6	-13.8	3.3	1.0	8.2	25.9	16.7	18.3	5.1
19.00	17.7	32.3	-16.2	-16.0	3.3	1.0	7.6	25.3	16.6	18.2	5.1
19.50	17.4	32.0	-13.9	-18.2	3.3	1.0	7.6	25.0	15.9	17.5	5.3
20.00	16.9	32.1	-13.0	-13.3	3.4	1.0	8.2	25.1	15.5	17.1	5.5
20.50	16.6	32.3	-14.4	-11.4	3.5	0.9	9.9	26.5	15.5	17.1	5.7
21.00	16.7	32.0	-17.3	-12.0	3.5	0.9	8.6	25.3	15.6	17.2	5.8
21.50	16.8	31.6	-19.8	-13.6	3.3	1.0	7.3	24.1	15.6	17.2	5.8
22.00	16.9	31.2	-18.5	-14.4	3.2	1.0	7.8	24.7	15.2	16.8	5.9
22.50	16.9	31.0	-15.0	-13.1	3.1	1.0	7.0	24.0	15.0	16.7	6.0
23.00	16.9	30.7	-13.3	-11.8	2.9	0.9	6.7	23.6	15.0	16.9	6.2
23.50	16.8	30.5	-13.9	-11.5	2.9	0.9	6.1	22.9	14.9	17.0	6.3
24.00	16.8	30.3	-16.5	-11.1	2.9	0.9	5.4	22.1	14.7	16.8	6.5
24.50	16.7	30.1	-20.8	-11.1	2.9	0.9	5.1	21.8	14.2	16.4	6.8
25.00	16.7	30.0	-21.5	-12.1	2.9	0.9	4.9	21.6	14.0	15.9	7.0
25.50	16.7	29.8	-20.3	-12.7	2.9	0.9	3.5	20.3	13.5	15.5	7.2
26.00	16.9	29.5	-23.6	-14.1	2.8	0.9	2.2	19.0	12.9	15.1	7.5
26.50	17.1	29.2	-23.5	-24.7	2.7	1.0	0.9	18.0	11.8	14.2	7.8
27.00	16.8	29.6	-15.4	-17.6	2.8	1.0	1.6	18.4	10.8	13.6	8.5
27.50	16.0	29.8	-13.4	-12.4	3.0	1.0	1.8	17.8	10.7	13.2	9.2
28.00	14.8	31.3	-13.1	-10.6	4.0	0.9	3.0	17.7	10.8	12.9	10.1
28.50	13.2	32.5	-12.0	-9.3	5.1	0.9	5.2	18.4	10.4	12.4	11.0
29.00	11.8	33.6	-10.7	-9.4	6.7	1.0	6.4	18.2	9.7	11.9	11.8
29.50	10.6	34.9	-10.2	-11.8	9.5	1.0	7.1	17.7	8.6	10.9	12.5
30.00	9.2	35.7	-10.8	-16.1	12.9	1.1	5.5	14.7	8.0	10.4	13.4

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: V_{CC} = +5V, V_B = +5.4V, V_C = +5V, I_{CC} = 94mA, I_B = 5.2mA, I_C = 1.3mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Input	IP-3 Output	1dB Comp. Output	3dB Comp. Output	Noise Figure
					K	Measure					
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
0.01	20.0	53.1	-16.8	-17.7	30.3	1.0	-	-	20.7	21.9	21.6
0.02	19.9	63.2	-16.6	-18.5	34.3	1.0	11.2	31.1	20.7	22.0	20.7
0.03	19.8	64.3	-16.6	-18.6	63.6	1.0	13.1	32.9	20.6	22.1	21.3
0.04	19.7	74.3	-16.4	-18.6	27.7	1.0	11.1	30.9	20.8	22.4	21.2
0.05	19.7	62.7	-16.4	-18.6	124.2	1.0	10.6	30.3	20.8	22.4	21.3
0.06	19.7	67.9	-16.3	-18.5	70.4	1.0	11.4	31.0	20.7	22.3	21.2
0.07	19.6	63.0	-16.4	-18.5	142.4	1.0	10.8	30.4	20.7	22.4	21.2
0.08	19.6	71.7	-16.4	-18.5	69.9	1.0	12.0	31.6	20.7	22.4	21.0
0.09	19.6	62.3	-16.4	-18.6	136.1	1.0	11.6	31.2	20.5	22.3	20.9
0.10	19.6	73.7	-16.3	-18.7	60.5	1.0	12.2	31.8	20.5	22.2	20.9
0.20	19.4	71.7	-16.7	-19.7	1480.8	1.0	9.4	28.8	19.8	22.1	19.6
0.25	19.3	67.2	-17.1	-20.9	39.1	1.0	9.0	28.3	19.2	21.6	18.2
0.50	19.0	61.9	-16.3	-21.6	84.0	1.0	8.8	27.8	18.5	21.3	15.8
1.00	18.2	59.7	-14.6	-25.1	59.8	1.0	8.8	27.0	17.7	20.9	11.8
1.50	18.2	55.9	-14.9	-18.6	44.3	1.0	8.4	26.6	17.4	21.0	9.3
2.00	18.3	53.6	-15.1	-15.6	26.5	1.0	7.9	26.1	17.5	21.2	7.8
2.50	18.3	51.2	-14.9	-14.2	24.9	1.0	7.6	25.9	17.7	21.2	7.0
3.00	18.3	51.7	-13.9	-13.9	21.6	1.0	8.9	27.1	17.8	21.3	6.2
3.50	18.2	55.5	-13.0	-13.8	33.6	1.0	8.2	26.3	18.0	21.4	5.6
4.00	18.3	54.6	-12.9	-14.1	26.4	1.0	7.9	26.1	18.2	21.5	5.1
4.50	18.4	51.2	-13.3	-15.1	23.4	1.0	7.9	26.3	18.3	21.6	4.7
5.00	18.4	48.8	-13.7	-15.6	18.2	1.0	8.0	26.4	18.2	21.5	4.3
5.50	18.4	47.3	-14.1	-16.5	13.8	1.0	8.0	26.4	18.2	21.3	4.1
6.00	18.4	45.4	-14.5	-18.7	12.0	1.0	8.4	26.8	18.1	21.0	3.9
6.50	18.3	44.9	-15.0	-23.0	11.3	1.0	8.5	26.8	18.3	21.3	3.7
7.00	18.3	43.9	-15.3	-29.7	10.4	1.0	7.9	26.2	18.3	21.2	3.5
7.50	18.2	42.7	-15.5	-38.0	9.5	1.0	8.7	27.0	18.3	21.2	3.5
8.00	18.2	41.9	-15.9	-28.2	8.8	1.0	8.8	27.0	18.4	21.2	3.5
8.50	18.3	41.7	-17.5	-23.4	8.4	1.0	8.5	26.7	18.4	21.0	3.5
9.00	18.4	41.1	-21.4	-22.2	7.8	1.0	8.2	26.5	18.7	21.3	3.6
9.50	18.4	40.3	-29.0	-22.0	7.3	1.0	9.1	27.5	18.8	21.1	3.7
10.00	18.5	39.7	-23.4	-20.6	6.9	1.0	8.6	27.0	18.7	20.9	3.8
10.50	18.5	39.5	-19.4	-19.2	6.4	1.0	8.3	26.9	18.8	21.0	3.7
11.00	18.5	38.9	-17.5	-18.2	6.0	1.0	9.0	27.5	18.3	20.5	3.8
11.50	18.4	38.5	-16.2	-16.9	5.7	1.0	8.2	26.6	18.5	20.6	3.8
12.00	18.2	38.2	-15.0	-16.0	5.6	1.0	9.1	27.3	18.1	20.0	3.8
12.50	18.0	37.7	-14.1	-15.6	5.3	1.0	8.3	26.3	18.2	20.2	3.9
13.00	17.8	37.2	-13.8	-14.1	5.2	1.0	9.2	27.0	17.9	19.7	3.9
13.50	17.5	36.9	-13.8	-12.2	5.1	1.0	8.8	26.3	17.7	19.5	4.1
14.00	17.2	36.8	-14.1	-11.4	5.1	1.0	9.8	27.0	17.5	19.1	4.2
14.50	17.0	36.9	-14.9	-11.2	5.4	0.9	9.7	26.8	17.5	19.2	4.4
15.00	16.8	37.7	-16.1	-10.8	6.1	0.9	10.0	26.8	17.7	19.4	4.8
15.50	16.8	38.3	-17.0	-10.1	6.5	0.9	9.9	26.6	17.8	19.5	5.1
16.00	17.2	36.9	-18.6	-10.8	5.4	0.9	9.6	26.8	18.0	19.5	5.1
16.50	17.7	35.5	-19.2	-12.3	4.5	0.9	9.2	26.9	18.1	19.5	5.1
17.00	18.0	34.6	-17.8	-13.8	3.9	1.0	8.3	26.2	17.9	19.2	5.1
17.50	18.2	33.7	-15.8	-15.9	3.5	1.0	8.1	26.3	17.5	19.1	5.1
18.00	18.2	33.1	-15.5	-15.1	3.3	1.0	7.6	25.8	17.1	18.7	5.1
18.50	18.2	32.7	-16.5	-13.6	3.1	1.0	7.4	25.6	17.2	18.8	5.1
19.00	18.2	32.3	-16.1	-15.6	3.1	1.0	7.2	25.4	17.2	18.9	5.2
19.50	17.9	32.0	-13.8	-18.3	3.1	1.0	7.1	25.0	16.2	18.1	5.3
20.00	17.4	32.1	-12.8	-13.4	3.2	1.0	7.7	25.1	15.8	17.6	5.5
20.50	17.1	32.3	-14.2	-11.4	3.3	0.9	8.7	25.8	16.0	17.6	5.7
21.00	17.1	32.0	-17.1	-11.9	3.3	0.9	8.0	25.1	16.1	17.8	5.7
21.50	17.3	31.6	-19.8	-13.5	3.2	0.9	7.0	24.3	16.1	17.8	5.8
22.00	17.4	31.2	-18.8	-14.4	3.0	1.0	7.3	24.7	15.7	17.3	5.9
22.50	17.4	31.0	-15.1	-13.4	2.9	1.0	7.1	24.5	15.5	17.2	6.0
23.00	17.4	30.7	-13.3	-12.1	2.8	0.9	6.1	23.5	15.6	17.5	6.1
23.50	17.4	30.5	-13.8	-11.7	2.7	0.9	6.1	23.4	15.4	17.6	6.3
24.00	17.3	30.3	-16.4	-11.3	2.7	0.9	5.0	22.4	15.2	17.4	6.5
24.50	17.3	30.1	-20.5	-11.1	2.7	0.9	4.8	22.0	14.7	16.9	6.7
25.00	17.2	30.0	-21.1	-11.9	2.7	0.9	4.7	21.9	14.5	16.5	6.9
25.50	17.2	29.8	-19.8	-12.4	2.7	0.9	3.8	21.0	14.0	16.0	7.1
26.00	17.3	29.5	-22.6	-13.4	2.7	0.9	1.8	19.1	13.5	15.7	7.4
26.50	17.6	29.2	-25.6	-21.3	2.6	1.0	0.6	18.1	12.3	14.9	7.7
27.00	17.5	29.6	-16.0	-19.6	2.5	1.0	1.1	18.5	11.1	14.0	8.3
27.50	16.8	29.8	-13.4	-13.0	2.8	1.0	0.8	17.6	10.7	13.5	9.0
28.00	15.7	31.3	-12.9	-10.9	3.5	0.9	2.5	18.1	10.9	13.1	9.9
28.50	14.2	32.5	-11.7	-9.2	4.4	0.9	3.6	17.7	10.5	12.7	10.8
29.00	12.7	33.6	-10.4	-9.1	5.7	1.0	5.0	17.8	9.9	12.3	11.6
29.50	11.5	34.9	-10.0	-11.2	8.0	1.0	6.0	17.5	8.9	11.3	12.4
30.00	10.1	35.7	-10.6	-14.8	10.7	1.1	5.1	15.2	8.2	10.8	13.2

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: V_{CC} = +5V, V_B = +5.8V, V_C = +5V, I_{CC} = 104mA, I_B = 5.7mA, I_C = 1.4mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Input	IP-3 Output	1dB Comp. Output	3dB Comp. Output	Noise Figure
					K	Measure					
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
0.01	20.2	55.6	-16.7	-17.7	28.8	1.0	-	-	21.1	22.2	22.0
0.02	20.0	58.3	-16.6	-18.4	39.9	1.0	8.1	28.0	21.2	22.2	21.1
0.03	19.9	62.4	-16.5	-18.6	64.8	1.0	10.1	30.1	21.1	22.3	21.6
0.04	19.9	64.0	-16.4	-18.6	78.1	1.0	14.9	34.8	21.3	22.6	21.6
0.05	19.8	63.7	-16.3	-18.6	76.2	1.0	10.4	30.3	21.3	22.7	21.6
0.06	19.8	64.5	-16.4	-18.5	83.7	1.0	10.1	29.9	21.2	22.6	21.5
0.07	19.8	69.3	-16.4	-18.5	146.0	1.0	10.9	30.7	21.2	22.6	21.5
0.08	19.8	64.4	-16.4	-18.5	82.7	1.0	12.9	32.7	21.2	22.7	21.3
0.09	19.8	65.9	-16.3	-18.6	98.6	1.0	11.1	30.9	21.0	22.5	21.3
0.10	19.7	69.8	-16.3	-18.7	154.3	1.0	10.8	30.5	21.1	22.5	21.2
0.20	19.6	64.9	-16.6	-19.7	89.9	1.0	9.0	28.7	20.3	22.4	19.9
0.25	19.5	66.2	-17.0	-21.0	105.4	1.0	8.5	28.1	19.6	21.9	18.5
0.50	19.3	66.0	-16.2	-21.8	105.9	1.0	8.1	27.4	18.9	21.6	16.1
1.00	18.5	61.4	-14.6	-25.2	68.7	1.0	8.3	26.8	18.1	21.2	12.1
1.50	18.5	56.6	-14.9	-18.6	39.7	1.0	7.7	26.2	17.7	21.4	9.6
2.00	18.6	53.6	-15.1	-15.6	27.5	1.0	7.7	26.3	17.8	21.6	8.0
2.50	18.7	52.3	-14.8	-14.2	23.3	1.0	7.4	26.1	18.1	21.5	7.0
3.00	18.6	51.0	-13.9	-13.9	20.2	1.0	7.9	26.5	18.2	21.7	6.2
3.50	18.5	54.2	-12.9	-13.8	29.5	1.0	8.4	26.9	18.3	21.7	5.7
4.00	18.6	52.8	-12.9	-14.0	25.0	1.0	7.9	26.5	18.6	21.9	5.3
4.50	18.7	50.8	-13.3	-15.0	20.1	1.0	8.0	26.7	18.6	21.9	4.9
5.00	18.8	48.9	-13.7	-15.5	16.2	1.0	7.6	26.4	18.6	21.8	4.4
5.50	18.8	46.7	-14.1	-16.3	12.9	1.0	8.0	26.8	18.6	21.7	4.2
6.00	18.7	45.7	-14.5	-18.5	11.8	1.0	8.2	27.0	18.5	21.4	4.0
6.50	18.7	44.7	-15.0	-22.7	10.7	1.0	8.4	27.1	18.5	21.6	3.7
7.00	18.6	44.1	-15.3	-29.0	10.1	1.0	8.4	27.0	18.5	21.6	3.7
7.50	18.6	43.1	-15.5	-37.5	9.2	1.0	8.7	27.3	18.7	21.6	3.5
8.00	18.6	42.5	-15.9	-28.7	8.7	1.0	8.7	27.3	18.8	21.6	3.6
8.50	18.6	41.7	-17.5	-23.6	8.0	1.0	7.9	26.5	18.8	21.4	3.5
9.00	18.7	40.9	-21.4	-22.3	7.4	1.0	8.6	27.2	19.0	21.7	3.6
9.50	18.7	40.6	-28.8	-22.0	7.1	1.0	7.6	26.3	19.2	21.5	3.7
10.00	18.8	39.7	-23.5	-20.7	6.4	1.0	8.1	26.9	19.1	21.3	3.8
10.50	18.9	39.5	-19.6	-19.3	6.2	1.0	8.5	27.3	19.2	21.4	3.8
11.00	18.9	39.1	-17.6	-18.4	5.8	1.0	8.6	27.5	18.7	20.9	3.9
11.50	18.7	38.6	-16.2	-17.0	5.6	1.0	8.2	26.9	18.7	21.0	3.8
12.00	18.6	38.0	-15.0	-16.2	5.2	1.0	8.1	26.6	18.3	20.4	3.8
12.50	18.4	37.6	-14.1	-15.8	5.1	1.0	8.1	26.5	18.5	20.6	3.9
13.00	18.1	37.3	-13.7	-14.3	5.0	1.0	8.2	26.3	18.3	20.1	3.9
13.50	17.8	37.0	-13.8	-12.4	5.0	1.0	8.3	26.2	18.1	19.9	4.1
14.00	17.6	36.9	-14.0	-11.5	5.0	1.0	8.5	26.1	17.8	19.6	4.2
14.50	17.4	37.0	-14.8	-11.3	5.2	0.9	9.3	26.7	17.9	19.7	4.5
15.00	17.2	37.6	-16.0	-10.8	5.7	0.9	9.8	27.0	18.1	19.9	4.8
15.50	17.1	38.4	-17.0	-10.1	6.2	0.9	9.0	26.1	18.3	20.0	5.1
16.00	17.5	36.9	-18.6	-10.7	5.2	0.9	8.7	26.3	18.4	20.0	5.0
16.50	18.0	35.6	-19.4	-12.0	4.3	0.9	8.7	26.7	18.5	20.0	5.1
17.00	18.3	34.6	-18.0	-13.5	3.8	1.0	7.7	25.9	18.3	19.7	5.1
17.50	18.5	33.8	-15.9	-15.6	3.4	1.0	7.1	25.6	17.9	19.5	5.0
18.00	18.6	33.1	-15.5	-14.9	3.1	1.0	6.7	25.3	17.5	19.2	5.1
18.50	18.6	32.7	-16.5	-13.4	3.0	1.0	6.1	24.7	17.5	19.3	5.1
19.00	18.5	32.4	-16.1	-15.2	3.0	1.0	6.1	24.7	17.5	19.3	5.2
19.50	18.3	32.0	-13.7	-18.4	3.0	1.0	6.5	24.8	16.6	18.5	5.2
20.00	17.8	32.2	-12.7	-13.5	3.1	1.0	6.9	24.7	16.0	18.0	5.5
20.50	17.5	32.3	-14.0	-11.3	3.2	0.9	7.4	24.9	16.2	18.1	5.6
21.00	17.5	32.2	-16.9	-11.7	3.2	0.9	7.2	24.7	16.4	18.2	5.6
21.50	17.6	31.8	-19.8	-13.3	3.1	0.9	5.9	23.5	16.4	18.3	5.8
22.00	17.8	31.2	-19.1	-14.5	2.9	1.0	6.4	24.2	16.0	17.8	5.9
22.50	17.8	30.9	-15.3	-13.7	2.8	1.0	5.8	23.6	15.7	17.6	6.0
23.00	17.8	30.7	-13.3	-12.4	2.7	0.9	5.6	23.3	15.9	17.9	6.1
23.50	17.7	30.4	-13.8	-11.9	2.6	0.9	5.4	23.1	15.8	18.0	6.2
24.00	17.7	30.3	-16.3	-11.4	2.6	0.9	4.8	22.5	15.6	17.8	6.5
24.50	17.6	30.1	-20.3	-11.2	2.6	0.9	4.1	21.7	15.1	17.3	6.7
25.00	17.6	30.1	-20.9	-11.8	2.7	0.9	4.4	21.9	14.9	16.9	6.9
25.50	17.5	30.0	-19.4	-12.3	2.7	0.9	3.3	20.8	14.3	16.4	7.1
26.00	17.6	29.8	-21.8	-12.9	2.6	0.9	1.6	19.2	13.8	16.0	7.3
26.50	17.9	29.3	-27.6	-19.1	2.5	1.0	0.1	18.0	12.6	15.2	7.6
27.00	17.9	29.3	-16.5	-22.6	2.5	1.0	0.6	18.5	11.2	14.4	8.2
27.50	17.3	29.5	-13.5	-13.9	2.6	1.0	0.4	17.7	10.6	13.8	8.9
28.00	16.3	30.8	-12.7	-11.3	3.2	0.9	1.4	17.8	10.8	13.3	9.7
28.50	14.9	31.8	-11.5	-9.3	3.9	0.9	2.8	17.7	10.6	12.9	10.6
29.00	13.5	32.8	-10.3	-8.9	5.0	0.9	3.8	17.3	10.1	12.5	11.3
29.50	12.2	33.9	-9.8	-10.6	6.7	1.0	5.0	17.2	8.9	11.7	12.2
30.00	10.9	35.1	-10.3	-13.7	9.6	1.0	4.1	15.0	8.4	11.2	13.0

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: V_{CC} = +5V, V_B = +5V, V_C = +5V, I_{CC} = 85mA, I_B = 4.5mA, I_C = 1.2mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Input	IP-3 Output	1dB Comp. Output	3dB Comp. Output	Noise Figure
					K	Measure					
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
0.01	21.0	50.8	-16.8	-17.8	15.1	1.0	-	-	20.0	21.8	21.4
0.02	20.9	57.1	-16.7	-18.6	31.5	1.0	5.4	26.3	20.0	22.0	20.1
0.03	20.8	55.4	-16.5	-18.9	26.3	1.0	9.1	29.9	20.2	22.2	20.3
0.04	20.8	62.6	-16.4	-18.9	60.0	1.0	12.4	33.1	20.2	22.5	20.3
0.05	20.7	62.7	-16.4	-18.8	61.0	1.0	7.0	27.7	20.2	22.6	20.3
0.06	20.7	60.6	-16.4	-18.7	48.3	1.0	8.7	29.4	20.2	22.4	20.3
0.07	20.6	59.9	-16.4	-18.7	44.8	1.0	7.4	28.1	20.0	22.3	20.3
0.08	20.6	79.0	-16.4	-18.7	404.4	1.0	8.2	28.8	20.1	22.4	20.0
0.09	20.6	60.5	-16.4	-18.7	48.4	1.0	8.5	29.1	20.0	22.3	20.0
0.10	20.6	74.2	-16.4	-18.8	234.4	1.0	10.7	31.2	20.0	22.2	20.0
0.20	20.2	83.5	-16.7	-20.0	713.2	1.0	9.1	29.4	19.4	21.8	18.7
0.25	20.0	65.2	-17.0	-21.6	89.4	1.0	7.9	27.9	18.8	21.3	17.3
0.50	19.7	64.5	-16.3	-22.6	86.1	1.0	8.7	28.4	18.3	21.0	15.0
1.00	18.8	59.0	-14.5	-26.2	50.5	1.0	8.8	27.5	17.6	20.6	11.0
1.50	18.7	57.2	-14.9	-18.9	41.6	1.0	9.1	27.8	17.4	20.8	8.6
2.00	18.8	54.0	-15.1	-15.7	28.2	1.0	9.0	27.9	17.5	20.9	7.0
2.50	18.9	52.0	-14.9	-14.2	22.2	1.0	7.8	26.7	17.7	21.0	6.0
3.00	18.8	52.1	-13.8	-14.1	22.4	1.0	8.5	27.3	17.8	21.3	5.5
3.50	18.7	54.5	-12.7	-14.0	29.9	1.0	8.5	27.2	18.1	21.3	4.9
4.00	18.8	53.6	-12.7	-14.0	26.7	1.0	8.8	27.6	18.2	21.3	4.5
4.50	18.9	51.4	-13.2	-15.0	20.8	1.0	8.6	27.6	18.3	21.4	4.0
5.00	19.0	49.0	-13.5	-15.9	16.0	1.0	8.9	27.9	18.3	21.4	3.7
5.50	19.0	47.3	-13.8	-16.5	13.3	1.0	9.7	28.7	18.4	21.2	3.5
6.00	19.0	46.4	-14.3	-18.1	12.3	1.0	9.1	28.1	18.4	21.3	3.2
6.50	19.0	45.0	-14.8	-21.8	10.7	1.0	9.2	28.1	18.3	21.2	3.0
7.00	18.9	43.9	-14.8	-28.5	9.5	1.0	8.6	27.5	18.4	21.1	2.8
7.50	18.9	43.2	-14.8	-36.6	8.9	1.0	9.8	28.7	18.3	21.0	2.7
8.00	18.9	42.2	-15.3	-29.1	8.0	1.0	9.2	28.1	18.4	20.9	2.7
8.50	18.9	41.7	-16.9	-23.2	7.5	1.0	9.4	28.3	18.4	20.9	2.7
9.00	19.0	41.2	-20.2	-21.4	7.2	1.0	9.1	28.1	18.7	21.1	2.7
9.50	19.1	40.6	-27.9	-22.7	6.7	1.0	8.9	28.1	18.9	21.1	2.9
10.00	19.2	40.0	-23.9	-22.2	6.2	1.0	9.7	28.9	19.0	21.1	2.9
10.50	19.2	39.4	-18.7	-19.5	5.8	1.0	9.9	29.2	19.0	21.0	2.9
11.00	19.3	39.0	-16.9	-18.5	5.5	1.0	9.1	28.3	18.9	20.8	2.9
11.50	19.2	38.8	-16.1	-17.5	5.3	1.0	8.6	27.8	18.4	20.4	2.9
12.00	19.0	38.0	-14.9	-15.8	4.9	1.0	8.6	27.6	18.5	20.4	2.9
12.50	18.8	37.7	-13.8	-15.6	4.9	1.0	8.8	27.6	18.0	19.9	2.9
13.00	18.6	37.2	-13.5	-15.1	4.7	1.0	10.5	29.1	17.9	19.6	3.1
13.50	18.3	36.9	-13.4	-12.6	4.6	1.0	8.9	27.2	17.8	19.4	3.1
14.00	18.0	36.7	-13.3	-11.1	4.6	0.9	8.9	26.9	17.6	19.2	3.2
14.50	17.8	36.8	-13.7	-11.2	4.7	0.9	10.1	27.9	17.6	19.2	3.4
15.00	17.7	37.3	-15.1	-11.2	5.1	0.9	10.4	28.1	17.7	19.3	3.7
15.50	17.5	38.7	-16.4	-9.7	6.0	0.9	11.5	29.0	18.0	19.5	4.1
16.00	17.9	37.4	-18.2	-9.8	5.0	0.9	12.1	30.0	18.1	19.7	4.0
16.50	18.5	35.6	-19.8	-12.0	4.0	0.9	9.8	28.3	18.2	19.6	4.0
17.00	18.8	34.6	-17.9	-13.6	3.5	1.0	8.7	27.6	17.9	19.2	3.9
17.50	19.0	33.9	-15.5	-14.4	3.2	1.0	9.5	28.5	17.8	19.2	4.0
18.00	19.2	33.4	-14.9	-15.5	3.0	1.0	8.1	27.3	17.7	19.1	3.9
18.50	19.2	32.5	-15.8	-13.9	2.7	1.0	7.5	26.7	17.5	18.8	4.0
19.00	19.1	32.2	-16.6	-13.7	2.6	1.0	6.6	25.8	17.5	18.9	4.1
19.50	19.0	31.9	-13.6	-19.1	2.7	1.0	7.8	26.7	16.8	18.3	4.2
20.00	18.5	31.9	-11.5	-14.5	2.7	1.0	8.5	27.0	16.2	17.9	4.3
20.50	18.0	32.2	-12.0	-10.3	2.8	0.9	9.5	27.5	16.2	17.8	4.5
21.00	18.0	32.0	-15.5	-10.5	2.8	0.9	9.8	27.8	16.1	17.6	4.5
21.50	18.3	31.5	-19.3	-13.4	2.7	0.9	8.2	26.5	16.0	17.5	4.5
22.00	18.5	31.0	-19.1	-15.6	2.6	1.0	7.8	26.3	16.0	17.5	4.6
22.50	18.5	30.7	-15.8	-13.7	2.5	0.9	6.7	25.2	16.2	17.7	4.8
23.00	18.4	30.6	-12.4	-11.0	2.4	0.9	7.0	25.4	16.1	17.7	4.9
23.50	18.4	30.3	-12.3	-10.8	2.3	0.9	6.6	24.9	16.0	17.9	5.0
24.00	18.5	30.0	-15.2	-12.1	2.3	0.9	6.3	24.8	15.6	17.5	5.2
24.50	18.5	29.9	-19.3	-10.7	2.3	0.9	5.3	23.7	15.5	17.5	5.4
25.00	18.3	29.8	-20.1	-10.1	2.3	0.9	4.8	23.1	15.4	17.0	5.6
25.50	18.4	29.6	-19.1	-11.9	2.3	0.9	5.9	24.2	14.7	16.6	5.9
26.00	18.4	29.5	-20.6	-12.5	2.3	0.9	3.4	21.8	14.6	16.2	6.1
26.50	18.7	29.1	-33.6	-13.9	2.2	0.9	1.2	19.9	13.8	15.7	6.4
27.00	19.0	28.6	-18.9	-33.7	2.0	0.9	0.8	19.8	12.3	15.0	7.0
27.50	18.6	28.9	-14.3	-11.8	2.0	0.9	1.1	19.7	11.9	14.7	7.7
28.00	17.7	29.6	-13.7	-10.0	2.3	0.9	1.6	19.3	11.8	14.1	8.6
28.50	16.4	31.0	-12.6	-9.3	3.0	0.9	3.7	20.1	11.1	13.1	9.4
29.00	14.7	32.4	-10.9	-7.5	3.8	0.9	3.9	18.7	10.6	12.5	9.9
29.50	13.4	33.6	-9.6	-8.3	5.2	0.9	5.4	18.7	9.7	11.8	10.7
30.00	12.2	34.2	-9.5	-13.1	7.0	1.1	9.2	21.4	9.0	11.4	14.2

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: V_{CC} = +5V, V_B = +5.4V, V_C = +5V, I_{CC} = 95mA, I_B = 5.1mA, I_C = 1.2mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Input	IP-3 Output	1dB Comp. Output	3dB Comp. Output	Noise Figure
					K	Measure					
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
0.01	21.2	54.8	-16.6	-18.0	23.6	1.0	-	-	20.7	22.1	21.8
0.02	21.0	56.8	-16.6	-18.8	29.9	1.0	6.6	27.6	20.8	22.2	20.5
0.03	21.0	58.7	-16.6	-18.8	37.5	1.0	9.8	30.8	20.9	22.4	20.7
0.04	20.9	62.9	-16.4	-18.9	61.3	1.0	4.9	25.8	21.0	22.8	20.7
0.05	20.9	65.1	-16.4	-18.7	78.7	1.0	10.5	31.4	21.0	22.8	20.7
0.06	20.8	62.6	-16.4	-18.7	59.8	1.0	9.6	30.4	20.9	22.7	20.6
0.07	20.8	72.6	-16.4	-18.6	187.8	1.0	9.2	30.0	20.8	22.6	20.6
0.08	20.8	71.4	-16.4	-18.6	165.6	1.0	11.2	32.0	20.7	22.7	20.4
0.09	20.8	63.3	-16.4	-18.7	65.2	1.0	11.4	32.2	20.8	22.6	20.3
0.10	20.8	66.9	-16.4	-18.8	98.2	1.0	9.7	30.5	20.6	22.5	20.4
0.20	20.5	69.2	-16.7	-20.0	133.3	1.0	9.6	30.2	20.0	22.1	19.0
0.25	20.3	78.8	-17.0	-21.6	415.1	1.0	7.4	27.7	19.3	21.8	17.6
0.50	20.1	67.2	-16.2	-22.7	112.2	1.0	8.8	28.9	18.7	21.4	15.2
1.00	19.2	59.5	-14.5	-26.5	51.1	1.0	9.1	28.3	18.0	20.9	11.2
1.50	19.2	55.7	-14.9	-18.9	33.1	1.0	8.4	27.6	17.8	21.2	8.8
2.00	19.3	52.9	-15.2	-15.7	23.7	1.0	7.8	27.1	17.9	21.2	7.2
2.50	19.3	52.1	-14.9	-14.2	21.1	1.0	7.8	27.2	18.1	21.4	6.2
3.00	19.3	51.6	-13.8	-14.1	20.2	1.0	8.7	28.0	18.3	21.6	5.5
3.50	19.1	54.7	-12.7	-13.9	28.9	1.0	8.7	27.9	18.6	21.6	5.0
4.00	19.3	54.7	-12.7	-14.0	28.9	1.0	8.8	28.1	18.6	21.7	4.6
4.50	19.4	51.1	-13.2	-14.9	19.0	1.0	8.5	27.9	18.8	21.7	4.1
5.00	19.5	48.9	-13.5	-15.7	15.0	1.0	9.2	28.7	18.8	21.7	3.8
5.50	19.5	47.1	-13.8	-16.3	12.3	1.0	8.9	28.4	18.7	21.5	3.5
6.00	19.4	45.6	-14.3	-17.9	10.6	1.0	8.9	28.4	18.9	21.7	3.3
6.50	19.4	44.7	-14.8	-21.4	9.8	1.0	8.4	27.8	18.8	21.6	3.0
7.00	19.4	43.9	-14.8	-27.9	9.0	1.0	8.9	28.3	18.8	21.5	2.9
7.50	19.3	43.5	-14.8	-35.9	8.7	1.0	9.4	28.7	18.8	21.4	2.7
8.00	19.3	42.6	-15.3	-29.6	7.9	1.0	8.6	28.0	18.9	21.3	2.7
8.50	19.4	41.8	-16.8	-23.4	7.3	1.0	8.0	27.4	18.9	21.3	2.7
9.00	19.5	41.2	-20.0	-21.4	6.8	1.0	9.3	28.7	19.3	21.5	2.8
9.50	19.6	40.5	-27.5	-22.7	6.3	1.0	9.2	28.8	19.3	21.6	2.9
10.00	19.6	40.0	-24.2	-22.3	6.0	1.0	8.8	28.5	19.4	21.6	2.9
10.50	19.7	39.2	-18.9	-19.7	5.4	1.0	9.1	28.7	19.4	21.5	2.9
11.00	19.7	39.1	-17.1	-18.7	5.2	1.0	9.0	28.7	19.4	21.3	2.9
11.50	19.6	38.7	-16.2	-17.7	5.0	1.0	8.0	27.7	18.9	20.9	2.9
12.00	19.5	37.9	-14.9	-16.0	4.7	1.0	8.2	27.7	19.0	20.9	2.9
12.50	19.3	37.7	-13.8	-15.8	4.6	1.0	9.2	28.5	18.4	20.3	2.9
13.00	19.1	37.3	-13.5	-15.4	4.5	1.0	9.4	28.5	18.4	20.0	3.0
13.50	18.8	37.0	-13.3	-12.8	4.4	1.0	9.0	27.8	18.3	19.9	3.1
14.00	18.5	36.8	-13.1	-11.2	4.4	0.9	8.5	27.0	18.1	19.7	3.2
14.50	18.3	36.7	-13.5	-11.3	4.4	0.9	10.7	29.0	18.2	19.7	3.4
15.00	18.2	37.4	-15.0	-11.2	4.9	0.9	11.0	29.1	18.3	19.9	3.7
15.50	18.0	38.8	-16.3	-9.7	5.8	0.9	10.4	28.4	18.6	20.1	4.0
16.00	18.3	37.4	-18.2	-9.6	4.8	0.9	10.1	28.4	18.7	20.3	4.0
16.50	18.9	35.8	-20.0	-11.7	3.9	0.9	9.8	28.7	18.8	20.2	4.0
17.00	19.3	34.6	-18.3	-13.3	3.4	1.0	8.0	27.3	18.5	19.8	4.0
17.50	19.5	34.0	-15.7	-14.0	3.0	1.0	9.1	28.6	18.4	19.7	4.0
18.00	19.6	33.2	-14.9	-15.2	2.8	1.0	8.3	27.9	18.3	19.6	3.9
18.50	19.7	32.5	-15.7	-13.7	2.6	1.0	7.6	27.3	18.0	19.4	4.0
19.00	19.6	32.1	-16.5	-13.3	2.5	0.9	8.3	27.9	18.0	19.5	4.0
19.50	19.5	31.9	-13.5	-18.5	2.5	1.0	7.0	26.5	17.3	18.9	4.2
20.00	19.0	31.9	-11.3	-14.7	2.6	1.0	6.8	25.8	16.7	18.4	4.4
20.50	18.5	32.0	-11.8	-10.2	2.6	0.9	8.8	27.3	16.7	18.3	4.5
21.00	18.5	32.2	-15.2	-10.3	2.7	0.9	8.4	26.8	16.5	18.2	4.5
21.50	18.7	31.5	-19.2	-13.3	2.6	0.9	7.9	26.6	16.5	18.1	4.6
22.00	18.9	31.0	-19.4	-15.5	2.5	0.9	7.0	26.0	16.6	18.1	4.6
22.50	19.0	30.8	-16.1	-13.9	2.4	0.9	7.4	26.4	16.8	18.3	4.7
23.00	18.9	30.6	-12.4	-11.3	2.3	0.9	7.3	26.1	16.7	18.3	4.9
23.50	18.9	30.3	-12.3	-11.1	2.2	0.9	5.5	24.4	16.6	18.5	5.0
24.00	19.0	30.0	-15.1	-12.4	2.2	0.9	5.7	24.7	16.2	18.1	5.1
24.50	19.0	29.8	-19.1	-10.9	2.2	0.9	4.8	23.8	16.2	18.0	5.3
25.00	18.8	29.9	-19.8	-10.0	2.2	0.8	4.5	23.3	16.1	17.5	5.5
25.50	18.8	29.7	-18.8	-11.7	2.2	0.9	8.1	26.9	15.2	17.0	5.9
26.00	18.9	29.5	-20.0	-12.3	2.2	0.9	3.6	22.4	15.2	16.7	6.0
26.50	19.0	29.2	-28.9	-13.0	2.1	0.9	1.2	20.3	14.4	16.3	6.3
27.00	19.5	28.6	-19.9	-32.0	2.0	0.9	0.7	20.2	12.9	15.5	6.9
27.50	19.3	29.0	-14.5	-12.9	1.9	0.9	0.8	20.0	12.3	15.1	7.6
28.00	18.5	29.6	-13.7	-10.3	2.1	0.9	0.7	19.2	12.1	14.5	8.3
28.50	17.3	30.4	-12.3	-9.5	2.6	0.9	3.1	20.4	11.3	13.4	9.1
29.00	15.6	31.7	-10.6	-7.4	3.2	0.9	3.8	19.4	10.7	12.8	9.8
29.50	14.2	33.1	-9.4	-7.9	4.3	0.9	4.7	18.9	9.8	12.1	10.5
30.00	13.2	33.6	-9.2	-12.1	5.7	1.1	7.8	21.0	9.3	11.8	11.2

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: V_{CC} = +5V, V_B = +5.8V, V_C = +5V, I_{CC} = 105mA, I_B = 5.6mA, I_C = 1.3mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Input	IP-3 Output	1dB Comp. Output	3dB Comp. Output	Noise Figure
					K	Measure					
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
0.01	21.4	53.0	-16.8	-17.7	18.8	1.0	-	-	21.2	22.3	22.0
0.02	21.2	56.4	-16.6	-18.8	28.0	1.0	10.0	31.2	21.3	22.5	20.8
0.03	21.1	58.5	-16.4	-18.9	36.1	1.0	9.5	30.7	21.5	22.6	21.1
0.04	21.1	65.8	-16.4	-18.9	84.2	1.0	4.8	25.9	21.6	23.0	21.1
0.05	21.0	68.1	-16.4	-18.7	109.5	1.0	8.6	29.7	21.7	23.1	21.0
0.06	21.0	62.5	-16.3	-18.6	58.0	1.0	9.0	30.0	21.5	22.9	20.9
0.07	21.0	62.9	-16.3	-18.6	60.5	1.0	9.8	30.8	21.3	22.8	21.0
0.08	21.0	61.5	-16.3	-18.6	51.7	1.0	8.6	29.5	21.3	22.9	20.7
0.09	20.9	64.1	-16.4	-18.7	70.2	1.0	9.9	30.9	21.3	22.8	20.6
0.10	20.9	74.8	-16.4	-18.8	240.2	1.0	9.1	30.0	21.2	22.8	20.7
0.20	20.7	63.8	-16.7	-20.0	69.4	1.0	8.8	29.6	20.4	22.5	19.4
0.25	20.6	62.3	-17.0	-21.6	59.7	1.0	7.8	28.4	19.8	22.1	18.0
0.50	20.4	60.8	-16.2	-23.0	52.0	1.0	6.0	26.4	19.1	21.7	15.5
1.00	19.5	61.8	-14.4	-26.8	64.1	1.0	8.3	27.9	18.4	21.3	11.5
1.50	19.5	56.6	-14.9	-18.9	35.5	1.0	8.0	27.5	18.2	21.5	9.0
2.00	19.7	54.1	-15.1	-15.7	26.0	1.0	7.9	27.5	18.3	21.6	7.3
2.50	19.7	51.7	-14.9	-14.2	19.3	1.0	7.8	27.5	18.5	21.8	6.3
3.00	19.6	51.8	-13.8	-14.1	19.8	1.0	7.8	27.4	18.6	21.9	5.7
3.50	19.5	53.6	-12.7	-13.9	24.5	1.0	8.7	28.2	18.8	22.0	5.1
4.00	19.6	53.8	-12.7	-13.9	24.9	1.0	8.6	28.2	19.0	21.9	4.6
4.50	19.8	50.7	-13.2	-14.8	17.5	1.0	8.9	28.7	19.1	22.0	4.2
5.00	19.8	48.8	-13.5	-15.6	14.2	1.0	8.5	28.3	19.1	22.0	3.8
5.50	19.8	47.6	-13.8	-16.2	12.5	1.0	8.1	28.0	19.0	21.9	3.6
6.00	19.8	46.2	-14.4	-17.7	10.8	1.0	8.2	28.0	19.2	22.1	3.3
6.50	19.8	44.6	-14.8	-21.1	9.2	1.0	8.0	27.8	19.1	22.0	3.1
7.00	19.8	43.7	-14.9	-27.3	8.5	1.0	7.7	27.5	19.2	21.9	2.9
7.50	19.7	43.6	-14.8	-35.2	8.4	1.0	7.9	27.6	19.1	21.8	2.8
8.00	19.7	42.7	-15.3	-30.0	7.7	1.0	9.1	28.8	19.2	21.7	2.8
8.50	19.7	41.9	-16.7	-23.6	7.1	1.0	8.5	28.2	19.2	21.7	2.7
9.00	19.8	40.9	-19.9	-21.5	6.3	1.0	9.0	28.8	19.6	21.9	2.8
9.50	19.9	40.6	-27.2	-22.8	6.1	1.0	8.1	28.1	19.7	22.0	2.9
10.00	20.0	39.8	-24.5	-22.5	5.6	1.0	7.5	27.5	19.8	22.0	3.0
10.50	20.0	39.4	-19.0	-19.8	5.2	1.0	8.3	28.3	19.8	21.9	2.9
11.00	20.1	39.2	-17.2	-18.8	5.1	1.0	8.3	28.4	19.7	21.7	2.9
11.50	20.0	38.3	-16.2	-17.9	4.6	1.0	8.8	28.8	19.2	21.3	2.9
12.00	19.9	37.9	-15.0	-16.1	4.4	1.0	8.7	28.5	19.2	21.3	3.0
12.50	19.7	37.5	-13.8	-16.0	4.3	1.0	8.6	28.3	18.8	20.7	3.0
13.00	19.5	37.1	-13.5	-15.6	4.2	1.0	8.4	27.9	18.6	20.4	3.1
13.50	19.2	36.7	-13.3	-12.9	4.1	1.0	9.4	28.6	18.5	20.4	3.1
14.00	18.9	36.8	-13.1	-11.3	4.2	0.9	8.9	27.7	18.3	20.2	3.3
14.50	18.7	36.9	-13.4	-11.3	4.4	1.0	9.3	28.0	18.6	20.2	3.5
15.00	18.5	37.4	-14.9	-11.3	4.7	0.9	10.1	28.6	18.7	20.4	3.7
15.50	18.3	38.9	-16.2	-9.6	5.6	0.9	10.5	28.8	19.0	20.6	4.0
16.00	18.6	37.4	-18.2	-9.5	4.6	0.9	9.1	27.8	19.2	20.8	4.1
16.50	19.2	35.7	-20.3	-11.5	3.7	0.9	7.6	26.8	19.3	20.7	4.0
17.00	19.6	34.7	-18.5	-13.0	3.2	0.9	7.0	26.6	18.9	20.3	4.0
17.50	19.8	34.0	-15.8	-13.6	2.9	1.0	6.6	26.4	18.8	20.2	4.0
18.00	20.0	33.4	-14.9	-14.9	2.7	1.0	6.0	26.0	18.7	20.1	3.9
18.50	20.1	32.6	-15.6	-13.5	2.5	1.0	6.5	26.5	18.3	19.8	4.0
19.00	20.0	32.1	-16.4	-13.0	2.4	0.9	5.8	25.9	18.3	19.9	4.0
19.50	19.9	31.8	-13.5	-18.1	2.4	1.0	5.3	25.2	17.5	19.3	4.2
20.00	19.4	31.7	-11.2	-15.0	2.4	1.0	6.9	26.3	16.9	18.8	4.3
20.50	18.9	32.2	-11.6	-10.2	2.5	0.9	7.3	26.2	17.0	18.8	4.5
21.00	18.8	32.2	-15.0	-10.2	2.6	0.9	8.4	27.2	16.8	18.6	4.5
21.50	19.1	31.5	-19.1	-13.1	2.5	0.9	7.1	26.2	16.8	18.5	4.6
22.00	19.3	31.2	-19.6	-15.3	2.4	0.9	6.7	26.0	17.0	18.6	4.6
22.50	19.3	30.7	-16.3	-14.0	2.3	0.9	5.4	24.8	17.2	18.8	4.7
23.00	19.3	30.6	-12.5	-11.6	2.2	0.9	6.1	25.3	17.1	18.7	4.8
23.50	19.3	30.4	-12.2	-11.3	2.2	0.9	5.6	24.9	17.2	19.0	4.9
24.00	19.4	30.0	-15.0	-12.7	2.1	0.9	5.1	24.5	16.6	18.5	5.1
24.50	19.4	30.0	-19.0	-11.1	2.1	0.9	4.7	24.1	16.6	18.4	5.2
25.00	19.2	30.0	-19.7	-10.0	2.1	0.8	4.1	23.3	16.5	17.9	5.6
25.50	19.2	29.8	-18.5	-11.6	2.1	0.9	6.5	25.7	15.5	17.4	5.8
26.00	19.2	29.7	-19.4	-12.1	2.1	0.9	3.0	22.2	15.5	17.1	6.0
26.50	19.3	29.4	-26.5	-12.4	2.1	0.9	1.2	20.4	14.8	16.7	6.3
27.00	19.7	29.0	-20.9	-24.7	2.0	0.9	0.5	20.2	13.4	15.8	6.8
27.50	19.7	28.8	-14.8	-14.2	1.8	0.9	0.5	20.2	12.5	15.3	7.5
28.00	19.1	29.4	-13.7	-10.7	2.0	0.9	0.0	19.0	12.1	14.8	8.2
28.50	18.0	30.4	-12.2	-9.9	2.4	0.9	2.1	20.1	11.4	13.6	8.9
29.00	16.3	31.9	-10.4	-7.4	3.0	0.9	2.9	19.3	10.7	13.0	9.5
29.50	15.0	32.9	-9.1	-7.5	3.8	0.9	4.0	19.0	10.0	12.4	10.2
30.00	13.9	33.7	-9.0	-11.1	5.1	1.0	6.9	20.8	9.4	12.1	11.0

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: $V_{CC} = +5V$, $V_B = +5V$, $V_C = +5V$, $I_{CC} = 85mA$, $I_B = 4.6mA$, $I_C = 1.3mA$ @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Input	IP-3 Output	1dB Comp. Output	3dB Comp. Output	Noise Figure
					K	Measure					
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
0.01	19.0	52.2	-16.7	-17.8	22.4	1.0	-	-	20.1	21.6	22.0
0.02	18.8	58.5	-16.8	-18.3	46.8	1.0	12.5	31.3	20.0	21.6	21.5
0.03	18.7	61.7	-16.7	-18.4	69.0	1.0	8.3	27.1	20.0	21.6	21.6
0.04	18.7	59.5	-16.6	-18.4	53.8	1.0	13.4	32.1	20.0	21.9	21.5
0.05	18.6	65.1	-16.5	-18.3	102.3	1.0	11.2	29.8	20.0	21.9	21.5
0.06	18.6	56.8	-16.5	-18.3	39.6	1.0	9.8	28.4	20.0	21.8	21.5
0.07	18.6	66.8	-16.4	-18.3	126.0	1.0	9.8	28.4	19.9	21.8	21.4
0.08	18.6	65.8	-16.4	-18.4	112.5	1.0	11.5	30.1	20.0	21.9	21.2
0.09	18.5	62.0	-16.4	-18.4	73.1	1.0	12.0	30.5	19.9	21.8	21.2
0.10	18.5	68.8	-16.4	-18.6	159.8	1.0	12.2	30.7	19.8	21.8	21.1
0.20	18.2	67.5	-16.7	-19.5	143.1	1.0	10.2	28.4	19.1	21.5	19.9
0.25	18.1	66.2	-17.1	-20.4	126.1	1.0	10.5	28.6	18.6	21.1	18.5
0.50	17.8	59.2	-16.3	-20.8	58.0	1.0	8.3	26.0	17.9	20.9	16.1
1.00	16.9	58.4	-14.6	-24.0	59.1	1.0	9.7	26.6	17.1	20.5	12.2
1.50	16.8	55.9	-14.9	-18.3	44.3	1.0	9.3	26.2	16.8	20.7	9.7
2.00	16.9	54.0	-15.0	-15.5	35.2	1.0	9.5	26.4	16.9	20.8	8.3
2.50	17.0	51.6	-14.7	-14.1	26.4	1.0	8.5	25.5	17.1	20.8	7.3
3.00	16.9	52.3	-13.9	-13.8	28.6	1.0	10.0	26.9	17.2	20.9	6.7
3.50	16.8	54.1	-13.0	-13.8	35.4	1.0	9.8	26.6	17.5	21.1	6.1
4.00	16.9	53.3	-13.0	-14.2	32.6	1.0	10.3	27.2	17.6	21.2	5.7
4.50	17.0	50.7	-13.5	-15.3	24.2	1.0	9.4	26.4	17.6	21.1	5.1
5.00	17.1	49.2	-13.9	-15.8	20.8	1.0	10.3	27.3	17.6	20.8	4.6
5.50	17.0	47.2	-14.3	-16.7	16.9	1.0	9.8	26.8	17.6	21.0	4.4
6.00	17.0	45.6	-14.7	-19.4	14.4	1.0	10.2	27.2	17.7	21.3	4.3
6.50	16.9	44.8	-15.2	-24.7	13.4	1.0	10.1	27.0	17.6	20.8	4.1
7.00	16.9	44.0	-15.6	-33.4	12.5	1.0	10.2	27.0	17.6	20.6	4.1
7.50	16.8	43.1	-15.8	-39.5	11.5	1.0	10.5	27.3	17.6	20.6	4.1
8.00	16.8	42.0	-16.4	-27.3	10.1	1.0	10.7	27.5	17.7	20.6	4.1
8.50	16.8	41.5	-18.3	-23.1	9.7	1.0	10.3	27.1	17.8	20.7	4.2
9.00	16.9	40.9	-22.9	-22.3	9.0	1.0	9.8	26.7	18.0	20.5	4.3
9.50	17.0	40.4	-28.5	-21.6	8.6	1.0	10.2	27.2	18.1	20.6	4.4
10.00	17.0	39.6	-22.3	-19.5	7.7	1.0	10.1	27.1	18.2	20.6	4.4
10.50	17.0	39.4	-19.3	-18.3	7.5	1.0	9.7	26.7	18.0	20.2	4.5
11.00	17.0	38.9	-17.7	-17.6	7.1	1.0	10.0	27.0	18.1	20.3	4.4
11.50	16.9	38.6	-16.4	-16.4	6.9	1.0	11.1	27.9	17.9	20.0	4.5
12.00	16.7	38.1	-15.1	-15.6	6.6	1.0	9.9	26.6	17.6	19.7	4.6
12.50	16.4	37.5	-14.2	-15.1	6.4	1.0	11.1	27.5	17.7	19.5	4.7
13.00	16.1	37.1	-13.9	-13.3	6.2	1.0	11.4	27.5	16.9	18.7	4.7
13.50	15.8	36.9	-14.2	-11.6	6.2	1.0	10.6	26.4	17.0	18.8	4.9
14.00	15.6	37.0	-14.8	-11.1	6.4	0.9	11.6	27.1	16.9	18.8	5.1
14.50	15.4	36.9	-15.7	-11.1	6.6	0.9	11.8	27.2	17.1	18.8	5.3
15.00	15.2	37.6	-16.6	-10.9	7.2	0.9	12.5	27.7	17.3	19.0	5.7
15.50	15.3	38.0	-17.5	-10.7	7.5	0.9	11.0	26.3	17.4	19.1	5.9
16.00	15.8	36.3	-18.9	-11.9	6.1	0.9	11.5	27.3	17.4	18.9	5.9
16.50	16.1	35.2	-18.9	-13.4	5.3	1.0	9.9	26.0	17.3	19.0	5.9
17.00	16.3	34.4	-17.4	-14.8	4.7	1.0	9.8	26.1	17.4	19.0	5.9
17.50	16.5	33.7	-15.8	-17.0	4.4	1.0	9.0	25.4	16.7	18.3	6.0
18.00	16.5	33.0	-15.9	-16.0	4.0	1.0	9.1	25.6	16.3	18.1	6.0
18.50	16.4	32.7	-16.8	-14.6	3.9	1.0	10.9	27.3	16.5	18.4	6.1
19.00	16.3	32.2	-16.1	-17.1	3.9	1.0	9.1	25.4	16.5	18.4	6.1
19.50	16.0	32.1	-14.1	-17.2	3.9	1.0	8.5	24.5	15.4	17.3	6.4
20.00	15.5	32.2	-13.9	-12.9	4.0	1.0	8.6	24.1	15.0	16.7	6.5
20.50	15.3	32.3	-15.9	-11.7	4.2	0.9	9.5	24.8	14.9	16.6	6.7
21.00	15.4	31.9	-18.9	-12.8	4.1	1.0	9.4	24.8	14.9	16.7	6.9
21.50	15.5	31.4	-20.1	-14.5	3.9	1.0	10.3	25.8	14.9	16.8	7.0
22.00	15.5	31.2	-17.8	-14.4	3.8	1.0	8.7	24.2	14.5	16.4	7.1
22.50	15.4	31.0	-14.9	-12.7	3.7	1.0	7.7	23.2	14.3	16.4	7.2
23.00	15.3	30.9	-13.8	-11.8	3.6	0.9	7.4	22.7	14.4	16.8	7.4
23.50	15.3	30.5	-14.7	-11.7	3.5	0.9	7.4	22.7	13.9	16.3	7.6
24.00	15.1	30.5	-17.6	-11.3	3.6	0.9	7.2	22.3	13.5	15.7	7.8
24.50	15.0	30.4	-22.5	-11.6	3.7	0.9	6.1	21.1	13.3	15.8	8.1
25.00	15.0	30.2	-23.2	-13.2	3.7	0.9	6.7	21.8	12.9	15.2	8.4
25.50	15.0	30.1	-22.6	-15.1	3.7	1.0	4.6	19.7	12.3	14.7	8.7
26.00	15.0	29.9	-23.2	-18.6	3.7	1.0	3.2	18.2	11.5	14.0	9.0
26.50	14.9	29.9	-17.2	-28.6	3.8	1.0	3.5	18.3	10.0	12.8	9.4
27.00	14.1	30.3	-13.9	-15.4	4.1	1.0	3.2	17.3	9.9	12.7	10.2
27.50	13.0	31.5	-13.8	-13.0	5.2	1.0	4.8	17.8	10.3	12.8	11.0
28.00	11.7	32.7	-14.0	-11.9	7.0	1.0	7.0	18.7	9.5	11.8	11.8
28.50	10.2	33.4	-12.6	-10.5	8.6	1.0	7.1	17.3	9.0	11.2	12.8
29.00	8.8	35.4	-11.4	-10.8	12.5	1.0	8.3	17.1	8.5	10.7	13.7
29.50	7.6	35.8	-11.0	-13.7	15.9	1.0	8.0	15.6	7.4	9.9	14.4
30.00	6.2	37.2	-11.6	-19.0	22.8	1.1	7.2	13.4	6.2	9.1	15.3

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: V_{CC} = +5V, V_B = +5.4V, V_C = +5V, I_{CC} = 94mA, I_B = 5.2mA, I_C = 1.4mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Input	IP-3 Output	1dB Comp. Output	3dB Comp. Output	Noise Figure
					K	Measure					
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
0.01	19.1	59.4	-16.8	-17.6	50.4	1.0	-	-	20.6	21.9	22.3
0.02	19.0	73.9	-16.9	-18.4	271.3	1.0	9.6	28.5	20.6	21.8	21.8
0.03	18.9	62.8	-16.6	-18.4	76.3	1.0	9.5	28.4	20.6	21.9	21.9
0.04	18.8	58.6	-16.4	-18.5	47.3	1.0	8.9	27.7	20.7	22.2	21.8
0.05	18.8	63.6	-16.4	-18.4	84.7	1.0	9.5	28.3	20.7	22.2	21.8
0.06	18.7	58.0	-16.5	-18.4	44.6	1.0	13.2	32.0	20.6	22.1	21.9
0.07	18.7	61.7	-16.4	-18.3	68.3	1.0	9.8	28.5	20.6	22.1	21.8
0.08	18.7	66.5	-16.4	-18.4	119.5	1.0	10.2	28.9	20.6	22.2	21.6
0.09	18.7	64.8	-16.4	-18.4	98.1	1.0	9.6	28.3	20.5	22.1	21.5
0.10	18.7	69.2	-16.4	-18.5	162.7	1.0	11.3	30.0	20.5	22.0	21.5
0.20	18.5	68.5	-16.7	-19.5	154.8	1.0	9.8	28.2	19.7	21.8	20.2
0.25	18.3	69.1	-17.1	-20.6	170.4	1.0	8.8	27.2	19.1	21.5	18.8
0.50	18.1	64.3	-16.2	-20.9	100.4	1.0	8.9	27.0	18.4	21.3	16.4
1.00	17.3	59.4	-14.6	-24.2	63.1	1.0	9.0	26.3	17.5	20.9	12.5
1.50	17.2	55.1	-14.8	-18.4	38.6	1.0	8.9	26.1	17.3	21.1	9.9
2.00	17.3	54.5	-14.9	-15.5	35.4	1.0	9.4	26.8	17.4	21.2	8.4
2.50	17.4	52.1	-14.7	-14.1	26.5	1.0	9.2	26.6	17.5	21.2	7.5
3.00	17.3	51.5	-13.8	-13.8	24.8	1.0	9.2	26.6	17.7	21.3	6.8
3.50	17.2	54.2	-13.0	-13.8	34.3	1.0	9.3	26.6	17.9	21.5	6.3
4.00	17.3	52.8	-13.0	-14.2	29.1	1.0	9.4	26.7	18.0	21.6	5.7
4.50	17.4	51.0	-13.5	-15.2	23.9	1.0	10.7	28.1	18.1	21.5	5.2
5.00	17.4	48.7	-13.9	-15.7	18.6	1.0	9.6	27.1	18.0	21.1	4.7
5.50	17.4	47.2	-14.2	-16.6	15.9	1.0	8.8	26.2	18.1	21.4	4.5
6.00	17.4	45.5	-14.7	-19.2	13.5	1.0	9.1	26.4	18.1	21.7	4.4
6.50	17.3	45.1	-15.3	-24.3	13.2	1.0	10.2	27.6	18.0	21.1	4.3
7.00	17.2	43.8	-15.6	-32.7	11.6	1.0	9.3	26.5	18.0	21.0	4.1
7.50	17.2	43.1	-15.8	-40.4	10.9	1.0	9.5	26.7	18.1	21.0	4.1
8.00	17.2	42.1	-16.4	-27.7	9.8	1.0	9.6	26.8	18.2	21.0	4.2
8.50	17.2	41.8	-18.4	-23.2	9.5	1.0	9.4	26.6	18.3	21.2	4.2
9.00	17.3	41.1	-22.8	-22.4	8.9	1.0	9.2	26.5	18.4	20.9	4.3
9.50	17.3	40.6	-28.3	-21.8	8.3	1.0	10.0	27.4	18.6	21.1	4.4
10.00	17.4	39.7	-22.4	-19.6	7.5	1.0	9.6	27.0	18.7	21.1	4.5
10.50	17.4	39.5	-19.3	-18.4	7.3	1.0	9.0	26.5	18.4	20.6	4.5
11.00	17.4	38.8	-17.7	-17.7	6.7	1.0	9.9	27.3	18.5	20.8	4.5
11.50	17.3	38.2	-16.5	-16.5	6.3	1.0	9.9	27.2	18.3	20.4	4.5
12.00	17.1	37.8	-15.2	-15.8	6.2	1.0	9.2	26.2	18.0	20.2	4.6
12.50	16.8	37.4	-14.2	-15.3	6.0	1.0	9.7	26.6	18.0	20.0	4.7
13.00	16.6	37.2	-13.9	-13.4	6.0	1.0	10.3	26.8	17.2	19.2	4.8
13.50	16.2	36.8	-14.2	-11.7	5.8	1.0	11.3	27.5	17.4	19.3	4.9
14.00	16.0	36.8	-14.7	-11.1	6.0	0.9	10.5	26.5	17.4	19.3	5.1
14.50	15.8	37.0	-15.6	-11.2	6.3	0.9	11.5	27.3	17.5	19.3	5.3
15.00	15.6	37.8	-16.6	-10.8	7.1	0.9	11.1	26.7	17.7	19.5	5.7
15.50	15.7	37.9	-17.5	-10.6	7.2	0.9	10.4	26.1	17.9	19.6	5.8
16.00	16.1	36.5	-19.0	-11.7	6.0	0.9	10.6	26.7	17.9	19.4	5.8
16.50	16.5	35.2	-19.0	-13.1	5.0	1.0	9.6	26.1	17.8	19.5	5.9
17.00	16.7	34.4	-17.6	-14.5	4.5	1.0	9.1	25.8	17.9	19.6	5.9
17.50	16.9	33.6	-15.9	-16.7	4.1	1.0	9.2	26.0	17.1	18.9	6.0
18.00	16.9	33.2	-15.9	-15.8	3.9	1.0	8.3	25.2	16.7	18.6	6.0
18.50	16.8	32.6	-16.8	-14.4	3.7	1.0	9.1	25.9	16.9	18.9	6.1
19.00	16.7	32.3	-16.0	-16.9	3.7	1.0	8.3	25.0	17.0	19.0	6.2
19.50	16.4	32.3	-14.0	-17.4	3.8	1.0	7.8	24.2	15.8	17.9	6.4
20.00	16.0	32.2	-13.7	-12.9	3.8	1.0	8.1	24.1	15.3	17.1	6.6
20.50	15.7	32.3	-15.8	-11.6	4.0	0.9	8.8	24.5	15.3	17.1	6.7
21.00	15.8	31.8	-18.9	-12.7	3.9	0.9	8.5	24.2	15.3	17.2	6.8
21.50	15.9	31.6	-20.3	-14.4	3.8	1.0	8.6	24.5	15.3	17.3	6.9
22.00	15.9	31.1	-18.1	-14.6	3.6	1.0	8.4	24.4	14.9	16.9	7.1
22.50	15.9	30.9	-15.0	-13.0	3.5	1.0	6.9	22.7	14.7	16.8	7.2
23.00	15.8	30.8	-13.8	-12.0	3.4	0.9	7.4	23.2	14.9	17.4	7.4
23.50	15.7	30.6	-14.7	-11.8	3.4	0.9	7.5	23.2	14.4	16.8	7.7
24.00	15.6	30.6	-17.5	-11.4	3.5	0.9	6.4	22.1	13.9	16.1	7.9
24.50	15.5	30.4	-22.1	-11.5	3.5	0.9	5.7	21.2	13.9	16.3	8.1
25.00	15.5	30.3	-22.7	-13.0	3.6	0.9	6.3	21.8	13.3	15.7	8.3
25.50	15.5	30.1	-22.1	-14.5	3.5	0.9	4.2	19.7	12.7	15.2	8.5
26.00	15.5	29.9	-23.6	-17.4	3.5	1.0	2.9	18.4	12.0	14.5	8.9
26.50	15.4	29.8	-17.8	-32.8	3.5	1.0	2.8	18.2	10.2	13.2	9.4
27.00	14.8	30.4	-14.0	-16.3	3.9	1.0	2.6	17.4	9.9	13.0	10.1
27.50	13.8	31.3	-13.6	-13.4	4.8	1.0	4.8	18.6	10.3	13.1	10.8
28.00	12.5	32.3	-13.7	-12.1	6.1	1.0	5.6	18.1	9.7	12.2	11.7
28.50	11.0	33.8	-12.4	-10.4	8.2	1.0	6.1	17.1	9.0	11.5	12.6
29.00	9.6	34.8	-11.2	-10.5	10.6	1.0	7.3	16.9	8.6	11.2	13.4
29.50	8.4	35.6	-10.9	-13.0	14.0	1.0	7.5	15.9	7.8	10.3	14.2
30.00	7.0	36.8	-11.4	-17.6	19.5	1.1	6.9	14.0	6.6	9.5	15.2

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: V_{CC} = +5V, V_B = +5.8V, V_C = +5V, I_{CC} = 104mA, I_B = 5.7mA, I_C = 1.4mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Input	IP-3 Output	1dB Comp. Output	3dB Comp. Output	Noise Figure
					K	Measure					
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
0.01	19.2	66.5	-16.7	-17.6	112.2	1.0	-	-	21.1	22.1	22.6
0.02	19.1	51.6	-16.5	-18.4	20.5	1.0	14.6	33.7	21.0	22.0	22.1
0.03	19.0	66.5	-16.6	-18.4	115.2	1.0	8.7	27.7	21.0	22.1	22.2
0.04	19.0	69.8	-16.4	-18.5	169.3	1.0	9.7	28.7	21.2	22.4	22.1
0.05	18.9	65.7	-16.4	-18.4	106.2	1.0	9.3	28.2	21.2	22.4	22.1
0.06	18.9	67.2	-16.4	-18.5	126.4	1.0	12.1	31.0	21.1	22.3	22.1
0.07	18.9	58.8	-16.4	-18.4	48.2	1.0	11.8	30.7	21.1	22.3	22.1
0.08	18.8	69.6	-16.4	-18.4	167.9	1.0	10.6	29.5	21.1	22.4	21.9
0.09	18.8	70.2	-16.4	-18.4	181.0	1.0	13.1	32.0	21.0	22.3	21.8
0.10	18.8	66.4	-16.4	-18.5	116.1	1.0	10.2	29.0	20.9	22.3	21.8
0.20	18.7	78.3	-16.7	-19.5	469.3	1.0	9.1	27.7	20.2	22.1	20.4
0.25	18.6	64.2	-17.1	-20.6	94.6	1.0	8.0	26.6	19.5	21.8	19.0
0.50	18.4	62.7	-16.2	-21.1	80.9	1.0	9.6	28.0	18.8	21.6	16.6
1.00	17.5	61.6	-14.6	-24.5	79.2	1.0	9.0	26.5	17.9	21.2	12.7
1.50	17.5	55.1	-14.8	-18.4	37.3	1.0	8.9	26.4	17.6	21.4	10.2
2.00	17.6	53.5	-14.9	-15.5	30.5	1.0	8.8	26.5	17.8	21.5	8.6
2.50	17.7	51.3	-14.6	-14.2	23.4	1.0	8.5	26.2	17.9	21.5	7.6
3.00	17.6	51.5	-13.8	-13.8	24.2	1.0	8.7	26.3	18.0	21.6	6.9
3.50	17.5	54.3	-12.9	-13.8	33.5	1.0	9.5	27.0	18.2	21.8	6.4
4.00	17.6	53.9	-12.9	-14.1	32.0	1.0	9.8	27.4	18.3	21.9	5.8
4.50	17.7	50.4	-13.4	-15.1	21.6	1.0	9.3	27.0	18.4	21.8	5.3
5.00	17.7	48.5	-13.9	-15.6	17.7	1.0	9.5	27.2	18.4	21.4	4.7
5.50	17.7	47.2	-14.2	-16.5	15.5	1.0	9.1	26.8	18.4	21.7	4.6
6.00	17.7	45.6	-14.7	-19.0	13.2	1.0	9.2	26.8	18.4	22.1	4.4
6.50	17.6	44.5	-15.3	-24.0	11.9	1.0	8.9	26.5	18.3	21.5	4.4
7.00	17.5	43.5	-15.6	-31.9	10.9	1.0	9.2	26.8	18.3	21.4	4.2
7.50	17.5	42.7	-15.9	-41.4	10.1	1.0	9.5	27.0	18.4	21.4	4.2
8.00	17.5	42.1	-16.5	-27.9	9.5	1.0	8.5	26.0	18.5	21.4	4.1
8.50	17.5	41.8	-18.4	-23.3	9.2	1.0	10.4	27.9	18.7	21.6	4.2
9.00	17.6	40.9	-22.9	-22.5	8.4	1.0	9.6	27.2	18.8	21.3	4.3
9.50	17.6	40.3	-28.2	-21.8	7.9	1.0	9.6	27.2	18.9	21.5	4.4
10.00	17.7	39.8	-22.3	-19.8	7.3	1.0	9.9	27.5	19.0	21.5	4.5
10.50	17.7	39.2	-19.3	-18.5	6.8	1.0	8.5	26.2	18.8	21.0	4.6
11.00	17.7	38.8	-17.8	-17.9	6.5	1.0	8.9	26.5	18.7	21.1	4.5
11.50	17.5	38.4	-16.5	-16.7	6.3	1.0	9.3	26.8	18.6	20.8	4.5
12.00	17.3	37.9	-15.2	-15.9	6.0	1.0	8.5	25.9	18.3	20.6	4.6
12.50	17.1	37.6	-14.2	-15.5	5.9	1.0	10.0	27.1	18.3	20.4	4.7
13.00	16.8	37.1	-13.9	-13.6	5.7	1.0	9.4	26.2	17.5	19.6	4.7
13.50	16.5	37.1	-14.1	-11.8	5.8	1.0	10.0	26.5	17.6	19.7	4.9
14.00	16.3	36.9	-14.7	-11.2	5.9	0.9	10.1	26.4	17.7	19.7	5.1
14.50	16.1	37.0	-15.6	-11.2	6.1	0.9	10.0	26.1	17.7	19.8	5.4
15.00	15.9	37.7	-16.6	-10.9	6.8	0.9	10.9	26.8	18.0	19.9	5.7
15.50	15.9	37.9	-17.5	-10.5	6.9	0.9	10.1	26.0	18.3	20.0	5.9
16.00	16.4	36.4	-19.0	-11.6	5.7	0.9	9.8	26.2	18.2	19.9	6.0
16.50	16.8	35.5	-19.1	-12.9	5.0	1.0	8.5	25.3	18.1	20.0	5.9
17.00	17.0	34.3	-17.6	-14.3	4.4	1.0	8.7	25.7	18.2	20.0	6.0
17.50	17.1	33.7	-15.9	-16.5	4.1	1.0	8.6	25.8	17.4	19.3	6.0
18.00	17.2	33.0	-15.9	-15.7	3.7	1.0	8.4	25.5	16.9	18.9	6.1
18.50	17.1	32.8	-16.8	-14.3	3.7	1.0	7.9	25.0	17.1	19.3	6.1
19.00	17.0	32.3	-16.0	-16.7	3.6	1.0	8.0	25.0	17.3	19.5	6.3
19.50	16.7	32.2	-14.0	-17.5	3.6	1.0	6.7	23.4	16.0	18.3	6.4
20.00	16.3	32.2	-13.7	-13.0	3.7	1.0	7.0	23.2	15.4	17.5	6.6
20.50	16.0	32.3	-15.7	-11.6	3.8	0.9	8.8	24.8	15.5	17.5	6.7
21.00	16.0	32.0	-18.8	-12.6	3.8	0.9	7.7	23.7	15.6	17.6	6.9
21.50	16.2	31.6	-20.4	-14.3	3.7	1.0	8.4	24.6	15.5	17.7	7.0
22.00	16.2	31.3	-18.2	-14.7	3.5	1.0	7.2	23.4	15.0	17.3	7.1
22.50	16.2	31.0	-15.1	-13.3	3.4	1.0	6.7	22.9	14.9	17.2	7.3
23.00	16.1	30.9	-13.8	-12.3	3.4	0.9	6.7	22.8	15.1	17.7	7.4
23.50	16.0	30.6	-14.7	-12.0	3.3	0.9	6.0	22.1	14.6	17.2	7.6
24.00	15.9	30.5	-17.4	-11.5	3.3	0.9	6.1	22.0	14.0	16.4	7.9
24.50	15.8	30.5	-21.9	-11.5	3.4	0.9	5.1	20.9	14.0	16.6	8.1
25.00	15.7	30.4	-22.5	-12.9	3.5	0.9	5.6	21.3	13.5	16.0	8.3
25.50	15.7	30.2	-21.8	-14.2	3.5	0.9	4.0	19.7	12.8	15.5	8.6
26.00	15.7	30.0	-23.6	-16.5	3.5	1.0	2.5	18.2	12.1	14.8	8.9
26.50	15.7	29.9	-18.3	-30.4	3.5	1.0	2.4	18.0	10.3	13.5	9.2
27.00	15.2	30.1	-14.2	-17.6	3.6	1.0	2.2	17.3	9.9	13.1	9.9
27.50	14.3	30.7	-13.6	-14.1	4.2	1.0	3.2	17.5	10.2	13.2	10.6
28.00	13.1	32.0	-13.6	-12.4	5.5	1.0	5.3	18.4	9.6	12.4	11.6
28.50	11.6	33.1	-12.3	-10.4	7.0	1.0	5.2	16.8	9.0	11.7	12.4
29.00	10.2	34.3	-11.1	-10.2	9.3	1.0	6.4	16.6	8.4	11.4	13.2
29.50	9.0	35.4	-10.7	-12.4	12.5	1.0	6.7	15.7	7.7	10.6	14.1
30.00	7.7	36.2	-11.2	-16.3	16.8	1.1	6.5	14.2	6.9	9.8	14.9

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: V_{CC} = +5V, V_B = +5V, V_C = +5V, I_{CC} = 85mA, I_B = 4.7mA, I_C = 1.3mA @ Temperature = +105°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Input	IP-3 Output	1dB Comp. Output	3dB Comp. Output	Noise Figure
					K	Measure					
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
0.01	18.6	63.5	-16.8	-17.5	85.5	1.0	-	-	19.7	21.2	22.3
0.02	18.5	64.0	-16.7	-18.2	91.6	1.0	10.0	28.4	19.8	21.4	21.4
0.03	18.4	66.1	-16.7	-18.3	118.8	1.0	10.3	28.7	19.9	21.5	21.8
0.04	18.3	61.0	-16.6	-18.3	66.4	1.0	12.8	31.1	20.0	21.8	21.8
0.05	18.3	65.4	-16.5	-18.4	111.2	1.0	10.2	28.5	20.1	21.9	21.9
0.06	18.2	66.4	-16.5	-18.3	125.6	1.0	7.6	25.7	19.9	21.7	21.7
0.07	18.2	70.6	-16.5	-18.3	204.1	1.0	9.1	27.3	19.9	21.6	21.8
0.08	18.2	68.9	-16.4	-18.3	168.1	1.0	11.7	29.9	19.8	21.7	21.6
0.09	18.1	75.5	-16.5	-18.4	358.1	1.0	11.0	29.1	19.8	21.6	21.5
0.10	18.1	67.3	-16.4	-18.5	140.5	1.0	13.3	31.4	19.8	21.6	21.5
0.20	17.8	73.4	-16.7	-19.5	293.0	1.0	9.7	27.5	19.1	21.4	20.2
0.25	17.6	75.9	-17.2	-20.4	401.7	1.0	10.3	27.9	18.5	21.0	18.8
0.50	17.3	67.8	-16.3	-20.5	165.4	1.0	10.2	27.6	17.8	20.7	16.4
1.00	16.4	60.3	-14.6	-23.7	77.5	1.0	10.6	27.0	17.1	20.4	12.5
1.50	16.4	56.3	-14.8	-18.2	48.8	1.0	9.3	25.7	16.8	20.6	10.1
2.00	16.5	55.1	-14.9	-15.4	41.9	1.0	9.5	26.0	16.9	20.6	8.6
2.50	16.6	53.3	-14.7	-14.1	33.6	1.0	10.2	26.7	17.1	20.8	7.6
3.00	16.5	52.2	-13.9	-13.8	29.7	1.0	9.8	26.3	17.2	21.0	7.0
3.50	16.4	53.9	-13.0	-13.8	36.7	1.0	10.3	26.8	17.4	21.1	6.6
4.00	16.5	53.5	-13.0	-14.3	35.0	1.0	10.5	27.1	17.6	20.9	6.1
4.50	16.6	51.7	-13.5	-15.3	28.6	1.0	10.2	26.8	17.7	21.0	5.7
5.00	16.6	48.9	-14.0	-15.9	21.1	1.0	10.2	26.8	17.6	21.1	5.3
5.50	16.6	47.1	-14.3	-16.9	17.6	1.0	10.2	26.7	17.7	20.9	5.0
6.00	16.5	45.7	-14.7	-19.7	15.4	1.0	10.8	27.3	17.6	20.9	4.8
6.50	16.4	44.4	-15.4	-25.3	13.6	1.0	10.3	26.7	17.7	20.8	4.6
7.00	16.4	43.7	-15.8	-35.1	12.8	1.0	10.4	26.8	17.6	20.6	4.6
7.50	16.3	43.0	-16.1	-39.4	11.9	1.0	10.0	26.3	17.7	20.5	4.5
8.00	16.3	42.1	-16.8	-27.3	10.9	1.0	10.1	26.4	17.7	20.4	4.5
8.50	16.4	41.8	-18.8	-23.1	10.6	1.0	9.8	26.1	17.7	20.4	4.6
9.00	16.4	40.7	-23.5	-22.1	9.4	1.0	10.5	26.9	18.1	20.6	4.7
9.50	16.4	40.1	-27.9	-21.2	8.8	1.0	10.9	27.4	18.1	20.6	4.8
10.00	16.5	39.7	-22.1	-19.4	8.4	1.0	10.6	27.1	18.1	20.5	4.9
10.50	16.5	39.3	-19.2	-18.2	7.9	1.0	10.6	27.2	18.1	20.4	5.0
11.00	16.5	38.9	-17.6	-17.4	7.6	1.0	10.7	27.2	18.0	20.2	5.0
11.50	16.3	38.4	-16.5	-16.2	7.3	1.0	11.2	27.5	17.6	19.7	5.0
12.00	16.1	37.8	-15.2	-15.5	6.9	1.0	10.2	26.3	17.6	19.7	5.1
12.50	15.8	37.5	-14.3	-14.8	6.8	1.0	10.8	26.6	17.2	19.2	5.1
13.00	15.6	37.2	-14.1	-13.0	6.7	1.0	10.7	26.3	17.1	18.9	5.3
13.50	15.2	36.8	-14.4	-11.5	6.5	1.0	11.4	26.7	16.9	18.8	5.4
14.00	15.0	36.9	-15.1	-11.1	6.9	0.9	11.1	26.1	16.9	18.7	5.7
14.50	14.8	37.1	-16.0	-11.2	7.2	0.9	12.1	26.9	16.9	18.7	5.9
15.00	14.7	37.7	-16.7	-11.0	7.9	0.9	12.6	27.3	17.1	18.9	6.3
15.50	14.8	37.6	-17.7	-11.0	7.8	0.9	11.6	26.4	17.2	19.0	6.5
16.00	15.2	36.3	-19.1	-12.3	6.6	0.9	10.9	26.1	17.3	19.0	6.5
16.50	15.5	35.2	-18.9	-13.7	5.7	1.0	9.9	25.4	17.2	18.8	6.6
17.00	15.7	34.3	-17.4	-15.4	5.1	1.0	11.1	26.8	16.8	18.4	6.6
17.50	15.8	33.8	-15.9	-17.6	4.8	1.0	10.2	26.1	16.6	18.4	6.7
18.00	15.8	33.2	-16.1	-16.3	4.5	1.0	9.1	24.9	16.4	18.3	6.7
18.50	15.7	32.7	-17.1	-15.0	4.3	1.0	9.5	25.2	16.1	17.9	6.7
19.00	15.6	32.2	-16.1	-17.7	4.2	1.0	9.3	24.9	15.9	17.8	6.9
19.50	15.2	32.3	-14.2	-16.8	4.4	1.0	9.5	24.7	15.4	17.3	7.1
20.00	14.8	32.3	-14.2	-12.9	4.5	1.0	9.5	24.3	15.0	16.8	7.3
20.50	14.6	32.3	-16.5	-11.9	4.6	0.9	10.2	24.8	14.9	16.7	7.4
21.00	14.6	31.9	-19.5	-13.1	4.5	1.0	9.0	23.6	14.7	16.5	7.5
21.50	14.7	31.5	-20.2	-14.7	4.3	1.0	9.0	23.7	14.3	16.2	7.7
22.00	14.7	31.2	-17.7	-14.4	4.2	1.0	8.4	23.1	14.3	16.3	7.8
22.50	14.6	31.1	-15.1	-12.8	4.1	1.0	8.2	22.7	14.2	16.4	8.0
23.00	14.5	30.9	-14.3	-11.9	4.0	0.9	8.1	22.6	13.9	16.1	8.2
23.50	14.4	30.7	-15.4	-11.8	4.1	0.9	7.5	21.9	13.5	15.9	8.3
24.00	14.2	30.7	-18.4	-11.6	4.1	0.9	7.4	21.6	13.1	15.6	8.6
24.50	14.1	30.5	-23.1	-12.0	4.2	0.9	6.6	20.7	12.7	15.2	8.9
25.00	14.1	30.4	-24.0	-14.0	4.3	0.9	5.9	19.9	12.2	14.6	9.2
25.50	14.0	30.3	-23.1	-16.6	4.3	1.0	5.5	19.5	11.8	14.3	9.5
26.00	13.9	30.2	-20.8	-21.9	4.4	1.0	4.3	18.1	10.8	13.4	9.9
26.50	13.5	30.5	-15.8	-23.1	4.7	1.0	4.8	18.3	10.1	12.9	10.5
27.00	12.6	31.3	-13.7	-15.1	5.5	1.0	4.7	17.3	9.7	12.4	11.1
27.50	11.5	32.0	-14.1	-13.6	6.8	1.0	6.2	17.7	9.6	12.0	12.0
28.00	10.2	32.9	-14.4	-12.8	8.7	1.0	7.2	17.3	9.0	11.4	12.9
28.50	8.7	34.2	-13.1	-11.3	11.6	1.0	8.3	17.0	8.2	10.6	13.8
29.00	7.3	35.0	-11.9	-11.6	14.8	1.0	8.3	15.6	7.6	9.9	14.6
29.50	6.0	36.7	-11.5	-14.2	21.5	1.0	7.9	13.9	6.6	9.2	15.5
30.00	4.7	37.0	-11.8	-19.5	26.9	1.1	7.7	12.4	5.5	8.3	16.4

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: V_{CC} = +5V, V_B = +5.4V, V_C = +5V, I_{CC} = 94mA, I_B = 5.3mA, I_C = 1.4mA @ Temperature = +105°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Input	IP-3 Output	1dB Comp. Output	3dB Comp. Output	Noise Figure
					K	Measure					
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
0.01	18.8	66.7	-16.8	-17.5	122.5	1.0	-	-	20.3	21.5	22.6
0.02	18.6	53.4	-16.7	-18.2	26.8	1.0	9.1	27.7	20.4	21.6	21.8
0.03	18.5	66.1	-16.7	-18.3	117.3	1.0	11.1	29.7	20.5	21.7	22.1
0.04	18.5	62.0	-16.5	-18.3	73.1	1.0	10.9	29.4	20.6	22.1	22.1
0.05	18.4	61.4	-16.5	-18.3	68.6	1.0	13.6	32.1	20.7	22.1	22.1
0.06	18.4	59.7	-16.4	-18.3	56.7	1.0	9.7	28.0	20.5	22.0	22.1
0.07	18.4	65.3	-16.4	-18.2	108.4	1.0	9.9	28.2	20.5	21.8	22.1
0.08	18.3	62.6	-16.4	-18.3	79.8	1.0	11.1	29.5	20.4	21.9	21.9
0.09	18.3	65.6	-16.5	-18.4	112.5	1.0	13.4	31.7	20.5	21.9	21.9
0.10	18.3	62.7	-16.4	-18.4	80.8	1.0	10.7	29.0	20.4	21.8	21.8
0.20	18.1	84.6	-16.7	-19.5	1034.9	1.0	9.6	27.7	19.6	21.6	20.5
0.25	17.9	70.4	-17.1	-20.4	208.3	1.0	8.4	26.4	19.0	21.4	19.1
0.50	17.7	78.5	-16.3	-20.7	543.6	1.0	8.3	26.0	18.4	21.0	16.7
1.00	16.8	62.4	-14.6	-23.9	94.0	1.0	9.7	26.5	17.5	20.7	12.7
1.50	16.8	56.8	-14.8	-18.3	49.5	1.0	8.5	25.3	17.2	21.0	10.3
2.00	16.9	54.0	-14.9	-15.5	35.3	1.0	11.0	27.9	17.5	21.0	8.8
2.50	16.9	52.0	-14.6	-14.1	27.9	1.0	9.6	26.5	17.5	21.2	7.9
3.00	16.9	52.0	-13.8	-13.8	28.0	1.0	9.8	26.7	17.6	21.3	7.2
3.50	16.8	53.5	-13.0	-13.8	33.6	1.0	9.9	26.7	17.8	21.4	6.6
4.00	16.9	52.3	-13.0	-14.2	29.1	1.0	9.8	26.6	18.0	21.3	6.2
4.50	17.0	49.9	-13.5	-15.3	22.3	1.0	10.4	27.3	18.1	21.4	5.8
5.00	17.0	48.3	-13.9	-15.8	18.8	1.0	9.6	26.5	18.0	21.4	5.4
5.50	16.9	47.0	-14.3	-16.8	16.6	1.0	10.3	27.2	18.1	21.3	5.1
6.00	16.9	45.5	-14.7	-19.5	14.4	1.0	9.6	26.5	18.0	21.3	4.8
6.50	16.8	44.6	-15.4	-25.0	13.2	1.0	9.7	26.5	18.1	21.3	4.7
7.00	16.7	43.4	-15.8	-34.0	11.9	1.0	10.0	26.8	18.0	21.0	4.6
7.50	16.7	43.2	-16.1	-40.7	11.7	1.0	9.6	26.3	18.0	20.9	4.5
8.00	16.7	42.2	-16.8	-27.7	10.5	1.0	10.1	26.8	18.1	20.8	4.6
8.50	16.7	41.6	-18.9	-23.3	9.9	1.0	10.1	26.8	18.3	20.8	4.7
9.00	16.8	40.7	-23.5	-22.2	9.0	1.0	11.0	27.8	18.4	21.0	4.7
9.50	16.8	40.4	-27.8	-21.3	8.7	1.0	10.6	27.4	18.5	21.0	4.8
10.00	16.9	39.8	-22.1	-19.5	8.1	1.0	10.0	26.9	18.7	21.0	5.0
10.50	16.9	39.2	-19.2	-18.3	7.5	1.0	10.2	27.1	18.5	20.8	5.0
11.00	16.8	38.9	-17.7	-17.6	7.3	1.0	9.7	26.6	18.5	20.6	5.0
11.50	16.7	38.2	-16.5	-16.4	6.8	1.0	9.8	26.5	18.0	20.2	5.1
12.00	16.5	37.8	-15.2	-15.7	6.6	1.0	9.5	25.9	18.0	20.2	5.1
12.50	16.2	37.4	-14.3	-15.0	6.4	1.0	9.7	25.9	17.6	19.7	5.2
13.00	15.9	37.3	-14.1	-13.2	6.5	1.0	9.9	25.8	17.4	19.4	5.3
13.50	15.6	36.9	-14.4	-11.6	6.3	1.0	10.2	25.8	17.3	19.3	5.4
14.00	15.4	36.8	-15.1	-11.1	6.5	0.9	10.8	26.2	17.2	19.2	5.7
14.50	15.2	36.9	-15.9	-11.2	6.8	0.9	11.8	27.0	17.3	19.2	5.9
15.00	15.0	37.6	-16.7	-11.0	7.5	0.9	11.0	26.0	17.6	19.3	6.3
15.50	15.1	37.8	-17.7	-10.9	7.6	0.9	10.9	26.0	17.8	19.4	6.5
16.00	15.5	36.4	-19.1	-12.2	6.4	0.9	9.9	25.5	17.7	19.5	6.6
16.50	15.9	35.2	-19.1	-13.5	5.4	1.0	9.9	25.7	17.5	19.3	6.6
17.00	16.1	34.4	-17.5	-15.0	4.9	1.0	9.3	25.4	17.2	18.9	6.6
17.50	16.2	33.6	-15.9	-17.3	4.5	1.0	8.9	25.1	17.0	18.9	6.6
18.00	16.2	33.3	-16.1	-16.1	4.3	1.0	8.7	24.8	16.8	18.8	6.7
18.50	16.1	32.6	-17.1	-14.8	4.1	1.0	8.1	24.2	16.4	18.4	6.8
19.00	16.0	32.3	-16.1	-17.5	4.0	1.0	8.5	24.4	16.2	18.3	6.9
19.50	15.6	32.2	-14.2	-17.0	4.2	1.0	8.9	24.5	15.7	17.8	7.0
20.00	15.2	32.3	-14.1	-12.9	4.3	1.0	8.9	24.0	15.4	17.3	7.3
20.50	15.0	32.3	-16.4	-11.8	4.4	0.9	8.7	23.7	15.3	17.2	7.4
21.00	15.0	31.9	-19.5	-13.0	4.3	1.0	9.3	24.3	15.1	17.0	7.5
21.50	15.1	31.6	-20.4	-14.7	4.2	1.0	8.2	23.3	14.6	16.7	7.7
22.00	15.1	31.2	-17.9	-14.7	4.0	1.0	7.6	22.7	14.6	16.8	7.8
22.50	15.0	31.1	-15.2	-13.1	4.0	1.0	7.7	22.7	14.6	16.9	7.9
23.00	14.9	30.9	-14.3	-12.2	3.9	0.9	7.8	22.7	14.2	16.6	8.2
23.50	14.8	30.8	-15.3	-12.0	3.9	0.9	7.1	21.9	13.8	16.4	8.4
24.00	14.6	30.7	-18.2	-11.6	3.9	0.9	6.7	21.4	13.4	16.0	8.6
24.50	14.5	30.6	-22.7	-11.9	4.0	0.9	6.0	20.5	13.2	15.7	8.8
25.00	14.5	30.5	-23.5	-13.7	4.1	0.9	5.7	20.1	12.7	15.1	9.1
25.50	14.4	30.3	-22.8	-16.0	4.1	1.0	5.3	19.8	12.1	14.7	9.5
26.00	14.3	30.2	-21.4	-20.2	4.2	1.0	3.9	18.2	11.1	13.8	9.7
26.50	14.0	30.5	-16.2	-25.5	4.4	1.0	4.2	18.2	10.3	13.3	10.4
27.00	13.3	31.1	-13.7	-15.9	5.0	1.0	4.1	17.3	9.8	12.7	11.0
27.50	12.2	31.9	-13.9	-13.9	6.2	1.0	5.6	17.8	9.7	12.3	11.9
28.00	10.9	33.0	-14.3	-12.9	8.1	1.0	6.9	17.8	9.2	11.8	12.7
28.50	9.5	34.1	-13.0	-11.3	10.5	1.0	7.5	17.0	8.4	11.0	13.6
29.00	8.1	35.3	-11.8	-11.2	13.8	1.0	7.7	15.7	7.6	10.3	14.4
29.50	6.8	36.0	-11.4	-13.6	17.9	1.0	7.2	14.1	6.8	9.6	15.3
30.00	5.5	36.4	-11.7	-18.2	22.7	1.1	7.4	12.9	6.0	8.8	16.2

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: V_{CC} = +5V, V_B = +5.8V, V_C = +5V, I_{CC} = 104mA, I_B = 5.9mA, I_C = 1.5mA @ Temperature = +105°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Input	IP-3 Output	1dB Comp. Output	3dB Comp. Output	Noise Figure
					K	Measure					
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
0.01	18.9	62.0	-16.8	-17.5	70.2	1.0	-	-	20.6	21.7	22.9
0.02	18.8	53.5	-16.7	-18.0	26.5	1.0	10.1	28.9	20.7	21.8	22.0
0.03	18.7	63.3	-16.4	-18.4	83.1	1.0	8.1	26.8	20.9	21.9	22.5
0.04	18.6	66.7	-16.5	-18.4	123.9	1.0	8.4	27.0	21.1	22.3	22.4
0.05	18.5	61.9	-16.4	-18.3	71.8	1.0	11.5	30.0	21.2	22.3	22.5
0.06	18.5	65.9	-16.4	-18.2	113.6	1.0	12.1	30.6	20.9	22.1	22.4
0.07	18.5	64.0	-16.4	-18.3	92.0	1.0	10.6	29.1	20.9	22.1	22.4
0.08	18.5	61.9	-16.4	-18.3	72.3	1.0	12.9	31.3	20.9	22.2	22.1
0.09	18.4	68.1	-16.4	-18.4	148.0	1.0	13.4	31.9	20.9	22.1	22.1
0.10	18.4	73.1	-16.4	-18.5	263.0	1.0	15.2	33.6	20.7	22.1	22.1
0.20	18.3	78.7	-16.7	-19.5	516.8	1.0	11.1	29.4	20.2	21.9	20.8
0.25	18.1	67.2	-17.1	-20.5	139.7	1.0	10.2	28.3	19.5	21.6	19.4
0.50	17.9	63.3	-16.2	-20.8	92.3	1.0	10.1	28.0	18.8	21.3	16.9
1.00	17.1	58.5	-14.6	-24.1	58.0	1.0	9.2	26.3	17.9	21.0	13.0
1.50	17.0	57.1	-14.7	-18.3	50.0	1.0	10.1	27.2	17.9	21.4	10.5
2.00	17.1	55.2	-14.8	-15.5	39.2	1.0	9.3	26.4	17.9	21.4	9.0
2.50	17.2	53.9	-14.5	-14.1	33.5	1.0	9.3	26.5	18.0	21.6	8.0
3.00	17.1	52.2	-13.7	-13.8	27.7	1.0	9.5	26.6	18.1	21.7	7.3
3.50	17.0	54.8	-12.9	-13.8	37.6	1.0	9.8	26.8	18.3	21.7	6.8
4.00	17.1	53.4	-12.9	-14.2	32.3	1.0	9.3	26.4	18.5	21.6	6.3
4.50	17.2	51.3	-13.4	-15.2	25.4	1.0	10.1	27.3	18.5	21.7	5.8
5.00	17.2	48.5	-13.9	-15.7	18.8	1.0	9.3	26.5	18.5	21.7	5.4
5.50	17.2	47.1	-14.3	-16.7	16.3	1.0	10.0	27.2	18.5	21.6	5.3
6.00	17.1	45.7	-14.7	-19.3	14.3	1.0	9.6	26.7	18.5	21.7	5.0
6.50	17.1	44.7	-15.4	-24.6	13.1	1.0	9.0	26.0	18.5	21.6	4.8
7.00	17.0	43.6	-15.8	-33.3	11.8	1.0	9.6	26.6	18.4	21.4	4.7
7.50	16.9	42.8	-16.2	-42.3	10.9	1.0	10.1	27.0	18.5	21.3	4.6
8.00	16.9	42.2	-16.9	-27.9	10.3	1.0	10.0	26.9	18.6	21.2	4.7
8.50	17.0	41.5	-19.0	-23.4	9.6	1.0	10.1	27.0	18.7	21.2	4.7
9.00	17.0	40.9	-23.5	-22.3	9.0	1.0	9.6	26.6	18.9	21.4	4.8
9.50	17.0	40.6	-27.5	-21.5	8.7	1.0	9.9	26.9	18.9	21.4	5.0
10.00	17.1	39.6	-21.9	-19.6	7.7	1.0	9.1	26.2	18.9	21.3	5.0
10.50	17.1	39.1	-19.1	-18.5	7.2	1.0	9.3	26.4	18.9	21.2	5.0
11.00	17.0	38.8	-17.6	-17.7	7.0	1.0	10.3	27.3	18.7	21.0	5.1
11.50	16.9	38.5	-16.5	-16.5	6.8	1.0	10.0	26.9	18.2	20.5	5.0
12.00	16.7	37.9	-15.3	-15.8	6.5	1.0	9.6	26.3	18.3	20.5	5.2
12.50	16.5	37.4	-14.3	-15.2	6.3	1.0	9.6	26.1	17.8	20.1	5.2
13.00	16.2	37.2	-14.1	-13.3	6.3	1.0	9.6	25.8	17.7	19.8	5.4
13.50	15.9	36.9	-14.4	-11.7	6.2	1.0	10.6	26.4	17.6	19.7	5.5
14.00	15.6	37.0	-15.1	-11.2	6.4	0.9	9.6	25.2	17.4	19.6	5.8
14.50	15.4	37.0	-15.9	-11.3	6.7	0.9	11.1	26.6	17.6	19.7	6.0
15.00	15.2	37.8	-16.7	-11.0	7.4	0.9	11.1	26.3	17.9	19.8	6.4
15.50	15.3	37.8	-17.7	-10.9	7.4	0.9	10.8	26.1	18.0	19.9	6.5
16.00	15.8	36.3	-19.2	-12.1	6.2	0.9	10.2	25.9	18.1	20.0	6.6
16.50	16.1	35.3	-19.1	-13.3	5.4	1.0	9.1	25.2	17.9	19.7	6.6
17.00	16.3	34.4	-17.5	-14.8	4.8	1.0	8.4	24.7	17.5	19.4	6.7
17.50	16.4	33.8	-16.0	-17.1	4.5	1.0	8.7	25.1	17.2	19.3	6.7
18.00	16.4	33.2	-16.1	-16.2	4.2	1.0	7.6	24.0	17.0	19.2	6.7
18.50	16.3	32.8	-17.0	-14.8	4.0	1.0	7.8	24.1	16.6	18.8	6.9
19.00	16.2	32.5	-16.1	-17.4	4.0	1.0	8.3	24.5	16.4	18.7	7.0
19.50	15.9	32.3	-14.1	-17.2	4.1	1.0	8.1	24.0	15.9	18.2	7.2
20.00	15.4	32.3	-14.0	-13.0	4.2	1.0	7.9	23.3	15.4	17.6	7.3
20.50	15.2	32.6	-16.3	-11.8	4.4	0.9	8.8	24.1	15.5	17.5	7.5
21.00	15.3	32.0	-19.5	-12.9	4.2	1.0	8.0	23.2	15.3	17.4	7.5
21.50	15.3	31.6	-20.5	-14.7	4.1	1.0	7.3	22.6	14.8	17.0	7.8
22.00	15.3	31.3	-18.0	-14.8	4.0	1.0	7.0	22.3	14.8	17.1	7.8
22.50	15.3	31.3	-15.3	-13.3	3.9	1.0	6.9	22.2	14.7	17.3	7.9
23.00	15.1	31.0	-14.3	-12.4	3.8	1.0	7.2	22.3	14.4	16.9	8.2
23.50	15.0	30.8	-15.3	-12.2	3.8	0.9	6.2	21.3	14.1	16.7	8.4
24.00	14.9	30.9	-18.2	-11.8	3.9	0.9	6.1	21.0	13.6	16.3	8.6
24.50	14.7	30.8	-22.6	-11.9	4.0	0.9	6.0	20.8	13.4	16.0	8.9
25.00	14.7	30.6	-23.3	-13.5	4.1	0.9	5.4	20.0	12.7	15.3	9.0
25.50	14.6	30.5	-22.6	-15.6	4.1	1.0	4.9	19.5	12.2	14.9	9.4
26.00	14.5	30.4	-21.6	-19.0	4.2	1.0	3.5	18.1	11.2	14.0	9.8
26.50	14.3	30.5	-16.5	-27.1	4.4	1.0	3.6	17.9	10.3	13.4	10.3
27.00	13.6	31.1	-13.8	-16.9	4.9	1.0	3.6	17.2	9.6	12.8	11.0
27.50	12.6	31.7	-13.9	-14.4	5.8	1.0	4.7	17.3	9.5	12.5	11.7
28.00	11.4	32.9	-14.1	-13.2	7.5	1.0	6.2	17.6	9.1	11.9	12.5
28.50	10.0	34.2	-12.9	-11.3	10.0	1.0	6.7	16.7	8.3	11.1	13.5
29.00	8.6	34.9	-11.7	-11.0	12.4	1.0	6.6	15.2	7.8	10.6	14.3
29.50	7.4	35.8	-11.2	-13.0	16.2	1.0	6.9	14.3	6.8	9.9	15.2
30.00	6.1	36.7	-11.6	-17.0	21.8	1.0	6.7	12.8	6.0	9.1	16.0