

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain(Power Gain) = S21 (dB)

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	19.4	46.8	-16.4	-18.1	11.5	1.0	-	-	20.1	21.8	21.6
0.02	19.2	62.5	-16.6	-19.1	71.8	1.0	10.7	29.9	20.1	21.8	20.6
0.03	19.1	63.5	-16.2	-19.3	80.6	1.0	11.7	30.9	20.0	21.8	20.9
0.04	19.1	61.6	-16.1	-19.3	65.2	1.0	12.3	31.4	20.1	21.8	20.9
0.05	19.0	60.4	-16.1	-19.3	57.2	1.0	12.1	31.2	20.1	22.1	21.0
0.06	19.0	73.3	-16.1	-19.1	252.2	1.0	11.3	30.3	20.0	22.0	20.9
0.07	18.9	68.7	-16.1	-19.1	149.1	1.0	9.3	28.2	20.0	21.9	20.9
0.08	19.0	67.6	-16.1	-19.2	131.5	1.0	10.3	29.2	20.1	22.0	20.7
0.09	18.9	67.1	-16.1	-19.3	124.8	1.0	10.7	29.6	20.0	21.9	20.6
0.10	18.9	68.4	-16.1	-19.3	145.9	1.0	11.3	30.2	19.9	21.9	20.6
0.20	18.7	88.2	-16.5	-20.3	1466.8	1.0	11.3	30.0	19.3	21.5	19.3
0.25	18.7	88.2	-16.5	-20.3	1466.8	1.0	11.3	30.0	19.3	21.2	19.3
0.50	18.2	59.3	-15.7	-21.6	55.9	1.0	9.7	27.9	18.1	20.9	15.6
1.00	17.2	72.1	-14.1	-29.2	273.9	1.0	10.0	27.2	17.2	20.4	11.6
1.50	17.2	56.7	-14.2	-21.5	46.6	1.0	9.3	26.5	17.2	20.6	9.1
2.00	17.3	54.0	-14.2	-18.4	34.1	1.0	9.7	27.0	17.1	20.6	7.6
2.50	17.3	52.2	-13.8	-17.0	27.5	1.0	9.5	26.8	17.4	20.9	6.7
3.00	17.1	52.8	-13.0	-16.7	30.1	1.0	9.0	26.1	17.5	20.9	6.0
3.50	17.2	57.2	-13.3	-16.0	49.7	1.0	9.9	27.0	17.6	21.0	5.4
4.00	17.3	56.9	-14.3	-15.3	48.1	1.0	10.2	27.5	17.7	21.0	4.9
4.50	17.3	52.5	-15.8	-14.2	29.0	1.0	9.7	27.1	17.7	21.0	4.5
5.00	17.3	51.8	-17.4	-13.4	26.9	1.0	9.7	27.0	17.7	21.1	4.1
5.50	17.3	49.0	-18.4	-13.5	19.8	1.0	10.4	27.6	17.6	21.0	3.9
6.00	17.3	47.7	-18.8	-14.6	17.5	1.0	10.1	27.4	17.8	21.0	3.6
6.50	17.3	46.6	-19.2	-16.3	15.7	1.0	9.7	27.0	17.9	20.9	3.5
7.00	17.3	45.3	-19.5	-18.2	13.7	1.0	10.5	27.7	17.8	20.9	3.4
7.50	17.2	44.1	-19.7	-19.4	12.1	1.0	9.9	27.1	17.9	20.7	3.4
8.00	17.3	43.3	-20.8	-19.4	11.2	1.0	10.0	27.3	17.9	20.5	3.4
8.50	17.3	42.3	-22.4	-18.7	10.0	1.0	9.8	27.0	18.0	20.5	3.4
9.00	17.2	40.9	-20.4	-17.5	8.5	1.0	10.2	27.4	18.2	20.6	3.4
9.50	17.3	41.4	-17.6	-15.1	8.8	1.0	10.4	27.7	18.4	20.6	3.5
10.00	17.2	41.4	-16.4	-13.2	8.7	1.0	10.4	27.7	18.4	20.6	3.5
10.50	17.3	40.6	-17.3	-12.3	7.8	1.0	11.0	28.3	18.4	20.4	3.5
11.00	17.4	39.6	-20.7	-12.4	7.1	0.9	10.5	27.9	18.3	20.2	3.6
11.50	17.4	39.2	-29.9	-13.9	6.9	1.0	10.7	28.2	18.1	19.9	3.7
12.00	17.4	38.3	-29.8	-17.7	6.4	1.0	10.2	27.7	18.2	19.9	3.8
12.50	17.3	37.6	-21.7	-24.2	6.1	1.0	10.2	27.5	17.9	19.4	3.9
13.00	17.1	37.2	-18.7	-20.4	5.9	1.0	11.0	28.1	17.4	19.0	3.9
13.50	16.8	37.2	-17.8	-16.7	6.1	1.0	11.3	28.1	17.4	19.0	4.2
14.00	16.5	38.1	-18.2	-15.0	6.9	1.0	12.4	29.0	17.4	19.0	4.6
14.50	16.4	39.1	-19.5	-13.3	7.8	1.0	11.1	27.5	17.3	18.9	4.8
15.00	16.6	37.6	-22.1	-12.7	6.4	0.9	11.7	28.4	17.5	19.1	4.7
15.50	16.8	36.4	-23.7	-12.2	5.5	0.9	12.1	29.0	17.5	19.0	4.8
16.00	16.9	35.6	-22.8	-11.2	4.9	0.9	10.5	27.5	17.6	19.0	4.8
16.50	17.1	34.9	-22.8	-10.7	4.4	0.9	11.1	28.2	17.5	18.8	5.0
17.00	17.3	34.4	-24.1	-10.8	4.1	0.9	9.6	26.8	17.1	18.5	5.1
17.50	17.5	33.3	-26.4	-10.8	3.6	0.9	10.3	27.8	17.1	18.5	5.2
18.00	17.7	32.3	-26.9	-11.5	3.2	0.9	8.5	26.2	16.9	18.3	5.4
18.50	17.8	31.5	-20.9	-15.0	3.0	1.0	8.0	25.8	16.3	17.9	5.5
19.00	17.8	31.3	-15.5	-24.6	3.0	1.0	8.0	25.8	15.8	17.5	5.5
19.50	17.5	31.6	-13.5	-17.6	3.1	1.0	8.7	26.2	16.0	17.5	5.5
20.00	17.3	31.5	-14.2	-15.1	3.1	1.0	8.8	26.1	16.1	17.5	5.7
20.50	17.4	31.3	-16.9	-15.9	3.1	1.0	8.7	26.1	16.1	17.5	5.7
21.00	17.6	30.9	-20.4	-17.7	2.9	1.0	8.5	26.1	15.8	17.3	5.7
21.50	17.8	30.6	-24.5	-17.9	2.8	1.0	7.1	24.9	15.6	17.1	5.8
22.00	17.9	30.3	-26.8	-15.7	2.7	0.9	6.9	24.8	15.5	17.2	5.9
22.50	17.9	30.1	-24.2	-13.5	2.6	0.9	6.5	24.4	15.2	17.0	6.0
23.00	17.7	30.2	-23.6	-12.3	2.7	0.9	5.9	23.6	14.7	16.7	6.3
23.50	17.6	30.2	-25.4	-11.9	2.7	0.9	5.8	23.3	14.4	16.2	6.6
24.00	17.5	30.3	-19.0	-11.8	2.7	0.9	4.3	21.8	14.1	16.0	6.8
24.50	17.4	30.1	-14.9	-11.8	2.7	0.9	4.0	21.4	13.8	15.8	7.1
25.00	17.6	29.9	-14.1	-12.8	2.6	0.9	3.7	21.3	13.4	15.6	7.4
25.50	18.0	29.2	-17.7	-18.6	2.5	1.0	3.0	21.0	13.1	15.0	7.9
26.00	18.2	28.7	-31.3	-21.7	2.3	0.9	2.1	20.3	11.9	13.6	8.4
26.50	17.9	29.1	-17.7	-11.0	2.3	0.9	1.4	19.2	11.1	12.9	9.1
27.00	16.8	30.2	-14.9	-7.6	2.6	0.8	2.6	19.4	10.8	12.6	10.1
27.50	15.0	32.3	-12.6	-6.5	3.7	0.8	2.7	17.8	9.7	11.7	11.5
28.00	13.3	33.9	-10.6	-7.2	5.4	0.9	4.2	17.4	9.7	11.7	12.7
28.50	11.5	35.4	-9.5	-9.9	8.4	1.0	6.3	17.9	9.8	11.9	13.9
29.00	9.9	36.5	-9.5	-15.5	12.5	1.1	7.2	17.1	9.0	11.2	14.6
29.50	8.3	37.2	-11.0	-18.5	17.3	1.1	6.6	14.9	8.1	10.4	15.4
30.00	6.7	38.7	-13.3	-14.7	25.1	1.0	6.3	13.0	6.6	9.2	16.3

Typical Performance Data

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Definitions:

Input Return Loss = S11 (dB)

Gain(Power Gain) = S21 (dB)

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	19.5	71.7	-16.4	-18.1	198.0	1.0	-	-	20.8	22.1	22.0
0.02	19.4	54.2	-16.5	-19.3	26.9	1.0	10.1	29.5	20.7	22.1	21.0
0.03	19.3	64.3	-16.2	-19.2	86.9	1.0	10.1	29.4	20.6	22.0	21.3
0.04	19.2	64.5	-16.0	-19.3	89.1	1.0	11.8	31.0	20.8	22.4	21.2
0.05	19.2	59.7	-16.1	-19.1	51.5	1.0	11.4	30.6	20.7	22.4	21.3
0.06	19.1	60.2	-16.0	-19.1	55.2	1.0	13.9	33.1	20.7	22.2	21.2
0.07	19.1	64.4	-16.1	-19.1	89.2	1.0	11.3	30.4	20.7	22.2	21.2
0.08	19.1	67.0	-16.1	-19.2	120.1	1.0	12.9	32.1	20.7	22.3	21.0
0.09	19.1	62.6	-16.1	-19.3	73.3	1.0	12.6	31.7	20.6	22.2	21.0
0.10	19.1	68.2	-16.1	-19.3	139.2	1.0	11.1	30.2	20.5	22.1	20.9
0.20	19.0	68.5	-16.4	-20.3	147.0	1.0	10.4	29.4	19.7	21.9	19.6
0.25	19.0	68.5	-16.4	-20.3	147.0	1.0	10.4	29.4	19.7	21.5	19.6
0.50	18.6	66.3	-15.7	-21.7	118.6	1.0	9.3	28.0	18.5	21.2	15.8
1.00	17.6	62.3	-14.1	-29.5	84.5	1.0	9.9	27.6	17.5	20.7	11.9
1.50	17.6	58.0	-14.2	-21.6	51.5	1.0	9.3	27.0	17.4	21.0	9.4
2.00	17.7	57.2	-14.2	-18.5	46.8	1.0	9.4	27.2	17.5	21.0	7.7
2.50	17.7	52.6	-13.8	-17.1	27.3	1.0	9.4	27.1	17.6	21.3	6.8
3.00	17.6	53.4	-13.0	-16.8	30.5	1.0	8.8	26.3	17.7	21.4	6.1
3.50	17.6	56.1	-13.3	-16.0	41.6	1.0	9.5	27.1	18.0	21.4	5.6
4.00	17.7	57.0	-14.3	-15.3	46.4	1.0	10.1	27.8	18.0	21.4	5.0
4.50	17.8	52.6	-15.8	-14.2	28.0	1.0	9.6	27.4	17.9	21.4	4.6
5.00	17.8	50.6	-17.5	-13.3	22.5	1.0	9.5	27.2	18.0	21.5	4.2
5.50	17.7	48.8	-18.5	-13.4	18.5	1.0	9.8	27.5	18.0	21.3	3.9
6.00	17.7	47.3	-18.8	-14.5	15.7	1.0	9.6	27.3	18.1	21.3	3.7
6.50	17.7	46.4	-19.3	-16.2	14.6	1.0	9.6	27.3	18.1	21.4	3.5
7.00	17.7	45.3	-19.5	-18.0	13.1	1.0	10.1	27.8	18.1	21.3	3.5
7.50	17.7	44.5	-19.7	-19.3	12.1	1.0	9.7	27.4	18.1	21.1	3.4
8.00	17.7	43.3	-20.8	-19.4	10.6	1.0	9.8	27.5	18.3	21.0	3.4
8.50	17.7	42.1	-22.4	-18.8	9.3	1.0	9.4	27.1	18.4	21.0	3.5
9.00	17.7	41.2	-20.5	-17.7	8.3	1.0	10.3	28.0	18.6	21.1	3.5
9.50	17.7	41.2	-17.6	-15.2	8.3	1.0	10.1	27.8	18.7	21.1	3.5
10.00	17.7	41.2	-16.4	-13.3	8.0	1.0	10.2	27.9	18.8	21.1	3.6
10.50	17.7	40.5	-17.2	-12.3	7.3	1.0	10.7	28.4	18.8	20.9	3.6
11.00	17.8	39.7	-20.5	-12.4	6.8	0.9	10.6	28.4	18.7	20.7	3.7
11.50	17.9	39.0	-29.2	-13.8	6.4	1.0	10.1	28.0	18.5	20.4	3.7
12.00	17.9	38.3	-30.5	-17.5	6.1	1.0	9.9	27.7	18.6	20.4	3.8
12.50	17.8	37.7	-21.9	-24.2	5.9	1.0	9.3	27.1	18.1	20.0	3.8
13.00	17.6	37.4	-18.7	-21.0	5.7	1.0	9.9	27.5	17.7	19.5	4.0
13.50	17.3	37.4	-17.7	-17.1	5.9	1.0	11.1	28.4	17.8	19.6	4.2
14.00	17.0	38.0	-18.0	-15.3	6.5	1.0	11.2	28.2	17.8	19.5	4.6
14.50	16.9	39.0	-19.3	-13.4	7.3	1.0	10.5	27.4	17.7	19.5	4.8
15.00	17.1	37.6	-21.8	-12.7	6.1	0.9	10.4	27.5	17.9	19.6	4.7
15.50	17.3	36.5	-23.3	-12.1	5.2	0.9	10.5	27.8	18.0	19.6	4.7
16.00	17.4	35.6	-22.4	-11.1	4.6	0.9	9.9	27.2	18.2	19.6	4.8
16.50	17.5	35.1	-22.4	-10.6	4.3	0.9	10.1	27.6	18.0	19.5	5.0
17.00	17.7	34.6	-23.6	-10.6	4.0	0.9	8.7	26.5	17.7	19.1	5.1
17.50	18.0	33.5	-25.9	-10.5	3.5	0.9	8.9	26.9	17.6	19.1	5.3
18.00	18.2	32.4	-27.6	-11.1	3.0	0.9	8.3	26.5	17.5	19.0	5.4
18.50	18.4	31.6	-21.5	-14.2	2.8	0.9	6.9	25.3	16.8	18.5	5.7
19.00	18.3	31.3	-15.6	-23.4	2.8	1.0	7.9	26.2	16.1	18.1	5.6
19.50	18.0	31.5	-13.4	-17.7	2.9	1.0	7.3	25.3	16.3	18.1	5.6
20.00	17.8	31.6	-13.9	-15.0	3.0	1.0	8.1	25.9	16.5	18.1	5.5
20.50	17.9	31.3	-16.5	-15.7	2.9	1.0	8.3	26.2	16.5	18.1	5.6
21.00	18.1	31.0	-20.0	-17.5	2.8	1.0	8.0	26.1	16.3	17.8	5.7
21.50	18.3	30.6	-24.4	-18.2	2.7	1.0	6.2	24.5	16.1	17.7	5.8
22.00	18.4	30.2	-27.8	-16.3	2.6	0.9	6.6	25.0	16.0	17.8	5.9
22.50	18.4	30.2	-24.5	-14.0	2.5	0.9	6.3	24.7	15.6	17.6	6.0
23.00	18.3	30.1	-23.4	-12.7	2.5	0.9	5.3	23.6	15.1	17.2	6.2
23.50	18.1	30.1	-25.3	-12.2	2.5	0.9	5.2	23.3	14.8	16.8	6.5
24.00	18.0	30.2	-19.1	-12.0	2.6	0.9	4.0	22.0	14.4	16.5	6.8
24.50	17.9	30.3	-14.8	-11.8	2.6	0.9	3.7	21.6	14.1	16.4	7.0
25.00	18.0	30.1	-13.8	-12.4	2.5	0.9	4.1	22.2	13.7	16.2	7.4
25.50	18.4	29.4	-16.7	-16.7	2.4	0.9	2.9	21.3	13.6	15.6	7.8
26.00	18.8	28.8	-28.0	-28.1	2.2	0.9	1.8	20.7	12.2	14.1	8.2
26.50	18.7	28.7	-17.8	-12.1	2.1	0.9	0.6	19.3	11.1	13.4	8.9
27.00	17.8	29.8	-14.7	-7.8	2.2	0.8	1.5	19.3	10.6	12.9	9.9
27.50	16.1	31.5	-12.3	-6.3	2.9	0.8	1.6	17.7	9.3	11.8	11.2
28.00	14.3	33.5	-10.3	-6.8	4.4	0.9	3.2	17.5	9.0	11.8	12.5
28.50	12.5	34.7	-9.3	-9.1	6.7	1.0	5.6	18.1	9.5	12.2	13.7
29.00	10.8	35.8	-9.3	-14.0	10.3	1.1	6.6	17.4	9.1	11.6	14.5
29.50	9.3	37.5	-10.7	-17.5	15.9	1.1	6.8	16.1	8.2	10.9	15.3
30.00	7.6	38.0	-13.2	-14.6	20.7	1.0	6.4	14.0	7.1	9.9	16.0

Typical Performance Data

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Definitions:

Input Return Loss = S11 (dB)

Gain(Power Gain) = S21 (dB)

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	19.7	55.6	-16.3	-18.3	30.7	1.0	-	-	21.1	22.3	22.3
0.02	19.5	51.9	-16.4	-19.2	20.5	1.0	10.3	29.8	21.2	22.3	21.2
0.03	19.4	63.8	-16.1	-19.2	80.6	1.0	14.6	34.0	21.1	22.2	21.6
0.04	19.3	65.6	-16.1	-19.3	100.4	1.0	11.8	31.2	21.4	22.7	21.6
0.05	19.3	68.6	-16.1	-19.2	141.6	1.0	11.0	30.3	21.4	22.6	21.6
0.06	19.3	70.1	-16.0	-19.1	169.5	1.0	10.8	30.0	21.2	22.5	21.5
0.07	19.3	72.2	-16.0	-19.1	216.1	1.0	13.5	32.7	21.2	22.4	21.5
0.08	19.3	73.7	-16.0	-19.2	255.7	1.0	13.6	32.9	21.1	22.5	21.3
0.09	19.2	75.9	-16.1	-19.2	333.1	1.0	11.9	31.2	21.1	22.5	21.3
0.10	19.2	63.6	-16.1	-19.3	80.4	1.0	11.9	31.1	21.0	22.4	21.2
0.20	19.2	68.8	-16.4	-20.3	149.2	1.0	11.0	30.2	20.2	22.1	20.0
0.25	19.2	68.8	-16.4	-20.3	149.2	1.0	11.0	30.2	20.2	21.8	20.0
0.50	18.9	62.4	-15.7	-21.9	73.1	1.0	8.3	27.2	18.9	21.5	16.2
1.00	18.0	63.0	-14.1	-30.0	88.2	1.0	9.4	27.4	17.9	21.0	12.1
1.50	18.0	59.0	-14.2	-21.7	55.6	1.0	8.9	26.8	17.7	21.4	9.6
2.00	18.1	54.9	-14.2	-18.6	34.3	1.0	9.5	27.6	17.9	21.4	8.0
2.50	18.1	53.0	-13.8	-17.2	27.5	1.0	8.8	26.9	17.9	21.6	7.0
3.00	17.9	52.6	-13.0	-16.8	26.8	1.0	8.5	26.3	18.1	21.7	6.2
3.50	17.9	56.4	-13.3	-16.0	41.7	1.0	9.6	27.6	18.3	21.8	5.6
4.00	18.1	54.8	-14.3	-15.3	34.5	1.0	9.2	27.3	18.4	21.7	5.0
4.50	18.1	53.2	-15.8	-14.2	28.9	1.0	9.1	27.3	18.3	21.7	4.6
5.00	18.1	51.1	-17.5	-13.3	22.6	1.0	8.9	27.1	18.3	21.8	4.3
5.50	18.1	49.5	-18.5	-13.4	19.1	1.0	9.1	27.2	18.3	21.7	4.1
6.00	18.1	47.8	-18.8	-14.4	16.0	1.0	9.1	27.2	18.3	21.8	3.8
6.50	18.1	46.2	-19.3	-16.0	13.7	1.0	8.9	27.0	18.4	21.8	3.7
7.00	18.1	45.6	-19.5	-17.9	13.0	1.0	9.6	27.7	18.4	21.7	3.5
7.50	18.0	44.4	-19.7	-19.2	11.4	1.0	9.5	27.5	18.5	21.6	3.5
8.00	18.0	43.6	-20.8	-19.5	10.5	1.0	9.5	27.6	18.6	21.4	3.4
8.50	18.0	42.3	-22.4	-18.9	9.2	1.0	9.2	27.2	18.8	21.5	3.5
9.00	18.0	41.2	-20.6	-17.9	8.1	1.0	9.7	27.7	18.9	21.5	3.5
9.50	18.0	41.2	-17.7	-15.4	7.9	1.0	10.4	28.5	19.0	21.6	3.5
10.00	18.0	41.4	-16.4	-13.4	7.9	1.0	9.9	27.9	19.2	21.5	3.5
10.50	18.1	40.5	-17.2	-12.4	7.1	1.0	10.2	28.3	19.2	21.3	3.6
11.00	18.1	39.9	-20.4	-12.4	6.7	0.9	9.7	27.8	19.1	21.1	3.7
11.50	18.2	39.1	-28.7	-13.7	6.3	1.0	10.0	28.2	18.9	20.9	3.7
12.00	18.2	38.4	-30.9	-17.3	5.9	1.0	9.7	27.9	19.0	20.8	3.8
12.50	18.2	37.8	-22.0	-24.2	5.6	1.0	9.0	27.2	18.5	20.4	3.9
13.00	18.0	37.4	-18.7	-21.6	5.5	1.0	9.5	27.5	18.0	19.9	4.0
13.50	17.7	37.2	-17.6	-17.5	5.5	1.0	9.9	27.6	18.2	20.1	4.2
14.00	17.4	38.2	-17.9	-15.5	6.4	1.0	10.5	27.8	18.2	20.0	4.6
14.50	17.2	38.7	-19.2	-13.5	6.8	1.0	9.7	26.9	18.1	20.0	4.8
15.00	17.4	37.4	-21.5	-12.7	5.8	0.9	9.8	27.2	18.4	20.1	4.7
15.50	17.6	36.4	-23.1	-12.1	5.0	0.9	9.8	27.4	18.4	20.1	4.7
16.00	17.7	35.8	-22.1	-11.1	4.6	0.9	8.9	26.6	18.7	20.1	4.8
16.50	17.8	35.0	-22.1	-10.5	4.1	0.9	9.0	26.9	18.5	20.0	5.0
17.00	18.0	34.5	-23.3	-10.4	3.8	0.9	8.0	26.1	18.2	19.6	5.1
17.50	18.3	33.4	-25.5	-10.3	3.3	0.9	7.9	26.2	18.1	19.6	5.3
18.00	18.5	32.3	-27.9	-10.7	2.9	0.9	6.8	25.4	17.8	19.5	5.4
18.50	18.7	31.6	-21.9	-13.6	2.7	0.9	6.3	25.0	17.1	19.0	5.5
19.00	18.7	31.3	-15.6	-22.3	2.7	1.0	7.3	26.1	16.4	18.6	5.5
19.50	18.4	31.5	-13.3	-17.8	2.8	1.0	6.4	24.9	16.5	18.5	5.5
20.00	18.2	31.6	-13.7	-15.0	2.8	1.0	8.0	26.1	16.9	18.6	5.6
20.50	18.2	31.3	-16.3	-15.5	2.8	1.0	7.5	25.7	16.9	18.6	5.6
21.00	18.5	31.0	-19.7	-17.4	2.7	1.0	7.4	25.8	16.7	18.3	5.6
21.50	18.7	30.6	-24.1	-18.5	2.6	1.0	6.1	24.7	16.4	18.2	5.7
22.00	18.8	30.4	-28.5	-16.9	2.5	0.9	6.2	25.0	16.4	18.3	5.9
22.50	18.8	30.1	-25.0	-14.6	2.4	0.9	5.9	24.7	15.9	18.1	6.0
23.00	18.7	30.1	-23.4	-13.1	2.4	0.9	4.7	23.3	15.4	17.7	6.2
23.50	18.5	30.3	-25.4	-12.5	2.5	0.9	4.7	23.2	15.0	17.2	6.4
24.00	18.3	30.3	-19.2	-12.2	2.5	0.9	3.8	22.2	14.7	16.9	6.7
24.50	18.2	30.4	-14.8	-11.8	2.5	0.9	3.4	21.7	14.6	16.9	7.0
25.00	18.3	30.1	-13.6	-12.1	2.5	0.9	3.6	21.9	14.1	16.6	7.4
25.50	18.6	29.5	-16.1	-15.4	2.3	0.9	2.5	21.2	14.0	16.0	7.7
26.00	19.1	28.8	-25.7	-46.9	2.2	0.9	1.4	20.5	12.6	14.6	8.1
26.50	19.2	28.7	-17.9	-13.6	2.0	0.9	-0.3	18.9	11.5	13.7	8.8
27.00	18.6	29.2	-14.5	-8.2	2.0	0.8	0.5	19.1	10.7	13.2	9.7
27.50	16.9	31.2	-12.1	-6.2	2.6	0.8	0.5	17.3	9.2	11.8	11.0
28.00	15.1	32.7	-10.1	-6.4	3.6	0.8	2.0	17.0	8.9	11.8	12.3
28.50	13.2	34.3	-9.1	-8.4	5.7	1.0	4.4	17.7	9.5	12.4	13.4
29.00	11.6	35.7	-9.2	-12.8	9.1	1.1	6.1	17.7	9.1	12.0	14.3
29.50	10.0	36.7	-10.6	-16.5	13.1	1.1	6.1	16.1	8.5	11.2	15.1
30.00	8.4	37.9	-13.1	-14.4	18.7	1.0	6.1	14.6	7.4	10.4	15.9

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain(Power Gain) = S21 (dB)

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	20.7	59.6	-16.4	-18.5	43.5	1.0	-	-	20.2	22.1	21.0
0.02	20.4	58.3	-16.5	-19.4	38.5	1.0	12.8	33.2	20.2	22.1	19.9
0.03	20.4	61.4	-16.2	-19.6	55.0	1.0	7.9	28.3	20.1	22.0	20.2
0.04	20.3	65.0	-16.1	-19.5	83.4	1.0	9.3	29.6	20.2	22.5	20.3
0.05	20.3	67.0	-16.1	-19.5	105.4	1.0	9.7	30.0	20.2	22.5	20.2
0.06	20.2	65.0	-16.0	-19.4	83.9	1.0	8.7	28.9	20.1	22.3	20.2
0.07	20.2	64.9	-16.1	-19.3	84.0	1.0	11.0	31.2	20.1	22.2	20.1
0.08	20.2	62.1	-16.2	-19.5	60.5	1.0	12.6	32.8	20.1	22.3	19.9
0.09	20.2	67.0	-16.1	-19.4	107.1	1.0	11.8	31.9	20.0	22.2	19.9
0.10	20.1	73.0	-16.2	-19.5	215.2	1.0	11.2	31.3	20.0	22.2	19.8
0.20	19.9	69.0	-16.5	-20.6	140.0	1.0	10.2	30.1	19.3	21.6	18.6
0.25	19.9	69.0	-16.5	-20.6	140.0	1.0	10.2	30.1	19.3	21.3	18.6
0.50	19.3	64.6	-15.7	-22.9	90.1	1.0	8.4	27.7	18.3	21.0	14.9
1.00	18.3	64.9	-14.0	-32.1	104.9	1.0	9.7	28.0	17.4	20.5	10.8
1.50	18.3	57.6	-14.2	-22.0	45.8	1.0	8.7	27.0	17.3	20.7	8.4
2.00	18.3	55.4	-14.3	-18.6	35.3	1.0	9.6	28.0	17.3	20.8	6.9
2.50	18.3	51.8	-13.8	-17.3	23.2	1.0	8.9	27.2	17.5	21.0	5.9
3.00	18.1	52.8	-12.8	-17.3	26.5	1.0	8.3	26.5	17.6	21.0	5.3
3.50	18.2	57.6	-12.9	-16.3	46.2	1.0	10.1	28.2	17.8	21.2	4.6
4.00	18.3	56.3	-14.0	-15.4	39.5	1.0	10.7	29.0	17.9	21.1	4.1
4.50	18.4	54.4	-15.5	-14.5	31.6	1.0	9.1	27.5	18.0	21.2	3.7
5.00	18.4	51.7	-17.0	-13.6	23.5	1.0	9.4	27.8	17.9	21.3	3.4
5.50	18.4	49.3	-18.0	-13.3	17.9	1.0	9.9	28.2	18.0	21.1	3.2
6.00	18.4	47.7	-18.5	-14.0	15.1	1.0	9.3	27.6	18.0	21.1	3.0
6.50	18.4	46.3	-18.7	-15.7	13.1	1.0	9.2	27.5	18.1	21.2	2.8
7.00	18.4	45.2	-18.5	-17.8	11.7	1.0	9.8	28.2	18.1	21.1	2.6
7.50	18.4	44.5	-18.8	-19.2	11.0	1.0	9.2	27.6	18.1	20.9	2.6
8.00	18.4	43.5	-20.2	-19.1	9.8	1.0	10.4	28.9	18.1	20.8	2.6
8.50	18.4	42.3	-21.5	-18.4	8.6	1.0	9.2	27.6	18.3	20.8	2.6
9.00	18.4	40.7	-20.4	-18.5	7.2	1.0	10.2	28.6	18.5	20.8	2.6
9.50	18.4	41.2	-18.1	-16.1	7.5	1.0	10.0	28.5	18.7	20.9	2.5
10.00	18.4	41.1	-16.5	-13.6	7.3	1.0	11.4	29.8	18.7	20.8	2.5
10.50	18.5	40.4	-16.4	-12.4	6.5	1.0	10.1	28.6	18.8	20.7	2.7
11.00	18.5	40.0	-18.6	-12.4	6.3	1.0	10.2	28.8	18.7	20.5	2.7
11.50	18.6	39.3	-25.3	-13.7	6.0	1.0	10.0	28.7	18.5	20.3	2.8
12.00	18.7	38.5	-32.7	-16.6	5.6	1.0	10.3	29.0	18.6	20.2	2.9
12.50	18.6	37.7	-22.2	-23.9	5.2	1.0	10.2	28.9	18.2	19.8	3.0
13.00	18.5	37.2	-18.9	-23.3	5.0	1.0	10.2	28.6	17.7	19.3	3.0
13.50	18.2	37.1	-17.1	-16.9	5.0	1.0	10.2	28.3	17.7	19.4	3.2
14.00	17.9	37.8	-16.6	-15.4	5.6	1.0	11.9	29.8	17.7	19.2	3.5
14.50	17.7	39.5	-17.3	-13.9	6.8	1.0	10.8	28.5	17.5	19.1	3.7
15.00	17.9	37.9	-20.2	-12.6	5.6	0.9	11.3	29.1	17.8	19.4	3.7
15.50	18.1	36.5	-22.7	-11.9	4.7	0.9	10.7	28.8	17.9	19.4	3.6
16.00	18.3	35.7	-22.3	-11.7	4.2	0.9	9.8	28.1	18.1	19.4	3.7
16.50	18.4	35.0	-22.2	-10.8	3.8	0.9	10.5	28.9	17.9	19.2	3.8
17.00	18.5	34.6	-23.5	-10.0	3.5	0.9	10.3	28.9	17.6	19.0	3.9
17.50	18.8	33.6	-24.8	-9.8	3.1	0.9	10.2	28.9	17.6	18.9	4.0
18.00	19.1	32.3	-27.9	-10.4	2.6	0.9	7.6	26.7	17.5	18.8	4.2
18.50	19.3	31.3	-25.6	-11.9	2.4	0.9	7.0	26.3	16.9	18.4	4.3
19.00	19.4	31.0	-16.4	-18.4	2.4	1.0	7.9	27.3	16.2	17.9	4.4
19.50	19.2	31.3	-12.2	-19.4	2.4	1.0	6.9	26.1	16.3	17.9	4.4
20.00	18.8	31.4	-11.9	-13.4	2.5	1.0	8.6	27.4	16.7	18.0	4.3
20.50	18.8	31.2	-14.7	-13.8	2.5	1.0	8.1	26.9	16.7	18.0	4.4
21.00	19.1	30.6	-19.3	-16.7	2.3	0.9	8.7	27.9	16.6	17.8	4.3
21.50	19.4	30.5	-21.5	-19.1	2.3	0.9	7.1	26.5	16.5	17.8	4.4
22.00	19.5	30.1	-26.4	-16.6	2.2	0.9	7.1	26.6	16.3	17.8	4.6
22.50	19.5	29.9	-23.8	-13.3	2.1	0.9	6.7	26.2	16.1	17.7	4.7
23.00	19.5	29.8	-21.2	-12.8	2.1	0.9	5.1	24.7	15.8	17.5	4.8
23.50	19.6	29.7	-26.0	-13.5	2.1	0.9	4.8	24.3	15.4	17.0	5.0
24.00	19.4	29.8	-22.1	-11.6	2.1	0.9	4.4	23.8	14.8	16.6	5.2
24.50	19.2	29.9	-14.5	-10.7	2.0	0.9	4.3	23.5	14.8	16.7	5.6
25.00	19.3	29.7	-12.5	-11.9	2.0	0.9	4.2	23.5	14.6	16.7	5.8
25.50	19.5	29.2	-13.5	-13.7	1.9	0.9	3.2	22.7	14.5	16.5	6.1
26.00	20.1	28.4	-17.3	-20.0	1.8	0.9	2.0	22.1	13.8	15.4	6.5
26.50	20.7	27.7	-18.0	-16.3	1.5	0.9	1.2	21.9	12.9	14.5	7.0
27.00	20.5	28.2	-14.5	-7.4	1.4	0.7	0.6	21.1	12.0	13.9	7.9
27.50	19.4	29.6	-11.9	-5.0	1.5	0.7	-0.4	19.0	10.1	12.1	9.0
28.00	17.7	31.3	-9.7	-5.3	2.0	0.8	1.9	19.6	9.6	12.0	10.3
28.50	15.6	33.1	-8.4	-6.2	3.1	0.9	4.2	19.8	10.4	12.9	11.6
29.00	13.6	35.0	-8.0	-10.3	5.7	1.1	5.8	19.4	10.2	12.5	12.6
29.50	12.0	35.7	-8.7	-16.5	8.5	1.1	6.5	18.5	9.7	12.2	13.5
30.00	10.2	37.0	-11.5	-11.8	12.4	1.0	6.6	16.7	8.8	11.3	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)

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	20.8	67.8	-16.3	-18.4	109.0	1.0	-	-	20.9	22.3	21.3
0.02	20.6	55.5	-16.5	-19.7	27.3	1.0	8.7	29.3	20.9	22.4	20.3
0.03	20.5	64.0	-16.2	-19.5	73.0	1.0	10.7	31.2	20.9	22.3	20.5
0.04	20.5	59.8	-16.1	-19.5	44.9	1.0	14.1	34.5	20.9	22.8	20.6
0.05	20.4	66.0	-16.1	-19.6	92.3	1.0	10.4	30.9	20.8	22.7	20.6
0.06	20.4	62.8	-16.0	-19.3	64.5	1.0	9.9	30.3	20.9	22.6	20.4
0.07	20.4	68.2	-16.1	-19.3	119.3	1.0	10.6	31.0	20.7	22.5	20.4
0.08	20.4	60.9	-16.1	-19.5	51.5	1.0	10.6	31.0	20.8	22.6	20.2
0.09	20.3	61.1	-16.1	-19.4	53.5	1.0	10.7	31.0	20.7	22.5	20.2
0.10	20.3	72.6	-16.1	-19.5	200.3	1.0	13.8	34.1	20.6	22.5	20.1
0.20	20.1	69.1	-16.5	-20.6	138.1	1.0	9.9	30.0	19.8	22.0	18.9
0.25	20.1	69.1	-16.5	-20.6	138.1	1.0	9.9	30.0	19.8	21.6	18.9
0.50	19.7	62.6	-15.7	-23.0	69.1	1.0	8.6	28.2	18.6	21.3	15.2
1.00	18.7	60.0	-14.0	-32.7	57.5	1.0	9.5	28.2	17.8	20.9	11.3
1.50	18.7	58.9	-14.2	-22.1	50.4	1.0	8.8	27.5	17.6	21.1	8.7
2.00	18.8	56.1	-14.3	-18.6	36.4	1.0	8.6	27.4	17.8	21.1	7.0
2.50	18.8	52.5	-13.8	-17.3	24.0	1.0	8.4	27.1	17.8	21.3	6.0
3.00	18.6	52.3	-12.8	-17.3	23.8	1.0	8.6	27.2	17.9	21.4	5.3
3.50	18.6	55.3	-12.9	-16.3	33.8	1.0	8.9	27.5	18.2	21.5	4.7
4.00	18.8	55.9	-14.1	-15.4	35.8	1.0	9.9	28.6	18.3	21.4	4.2
4.50	18.8	54.2	-15.6	-14.5	29.4	1.0	9.1	28.0	18.3	21.5	3.7
5.00	18.8	50.9	-17.0	-13.6	20.4	1.0	9.1	27.9	18.3	21.6	3.5
5.50	18.8	49.3	-18.0	-13.3	16.9	1.0	9.4	28.2	18.3	21.5	3.2
6.00	18.8	47.8	-18.6	-13.9	14.5	1.0	9.4	28.2	18.5	21.6	3.0
6.50	18.8	46.9	-18.7	-15.5	13.3	1.0	9.4	28.2	18.4	21.6	2.8
7.00	18.8	45.3	-18.6	-17.7	11.2	1.0	9.5	28.4	18.6	21.4	2.8
7.50	18.8	44.3	-18.9	-19.1	10.2	1.0	9.4	28.2	18.5	21.3	2.6
8.00	18.8	43.6	-20.2	-19.1	9.5	1.0	9.3	28.1	18.6	21.2	2.6
8.50	18.8	42.5	-21.6	-18.5	8.4	1.0	9.2	28.0	18.8	21.3	2.6
9.00	18.8	41.0	-20.5	-18.7	7.1	1.0	9.8	28.7	19.0	21.3	2.6
9.50	18.9	41.6	-18.2	-16.3	7.5	1.0	10.3	29.2	19.1	21.4	2.6
10.00	18.9	41.2	-16.6	-13.8	7.0	1.0	9.8	28.7	19.2	21.3	2.6
10.50	18.9	40.8	-16.4	-12.4	6.5	1.0	10.5	29.4	19.2	21.2	2.7
11.00	19.0	40.0	-18.4	-12.4	6.0	1.0	11.0	30.0	19.2	21.0	2.7
11.50	19.1	39.1	-24.7	-13.6	5.6	1.0	10.1	29.2	19.0	20.7	2.8
12.00	19.1	38.5	-33.6	-16.4	5.3	1.0	9.3	28.4	19.0	20.7	2.8
12.50	19.1	37.6	-22.4	-23.4	4.9	1.0	9.5	28.6	18.6	20.3	2.9
13.00	18.9	37.2	-18.9	-24.2	4.7	1.0	9.9	28.8	18.1	19.8	3.0
13.50	18.6	37.0	-17.0	-17.3	4.7	1.0	10.6	29.3	18.2	19.9	3.2
14.00	18.3	38.0	-16.4	-15.7	5.4	1.0	11.4	29.7	18.2	19.8	3.4
14.50	18.2	39.4	-17.1	-14.0	6.5	1.0	10.3	28.4	18.0	19.7	3.7
15.00	18.3	37.8	-19.9	-12.6	5.3	0.9	10.9	29.2	18.4	20.0	3.6
15.50	18.5	36.7	-22.3	-11.9	4.6	0.9	10.0	28.5	18.4	20.0	3.6
16.00	18.7	35.8	-21.9	-11.6	4.0	0.9	9.7	28.4	18.6	20.0	3.6
16.50	18.8	35.2	-21.7	-10.7	3.7	0.9	8.4	27.2	18.6	19.9	3.8
17.00	18.9	34.8	-22.9	-9.9	3.4	0.9	9.5	28.4	18.3	19.6	3.9
17.50	19.2	33.7	-24.0	-9.6	2.9	0.9	8.5	27.7	18.2	19.6	4.0
18.00	19.5	32.5	-27.1	-10.0	2.5	0.9	7.7	27.2	18.1	19.5	4.2
18.50	19.8	31.4	-27.1	-11.4	2.2	0.9	6.3	26.1	17.5	19.0	4.4
19.00	19.9	31.2	-16.7	-17.2	2.2	1.0	7.3	27.2	16.6	18.5	4.4
19.50	19.7	31.2	-12.1	-19.8	2.3	1.0	6.5	26.2	16.7	18.4	4.3
20.00	19.3	31.6	-11.7	-13.4	2.4	1.0	8.2	27.5	17.1	18.6	4.2
20.50	19.3	31.2	-14.4	-13.6	2.3	0.9	8.1	27.4	17.2	18.6	4.3
21.00	19.6	30.9	-18.9	-16.5	2.3	0.9	8.0	27.6	17.1	18.5	4.3
21.50	19.8	30.4	-21.0	-19.2	2.2	0.9	6.3	26.1	17.0	18.4	4.4
22.00	20.0	30.1	-26.3	-17.0	2.1	0.9	6.4	26.4	17.0	18.4	4.6
22.50	20.0	29.9	-24.5	-13.7	2.0	0.9	6.7	26.7	16.7	18.4	4.6
23.00	20.0	29.8	-21.1	-13.2	2.0	0.9	5.6	25.7	16.4	18.1	4.7
23.50	20.0	29.7	-25.5	-14.1	2.0	0.9	4.2	24.2	15.8	17.6	4.8
24.00	19.9	29.9	-22.4	-12.0	2.0	0.9	4.4	24.2	15.4	17.1	5.2
24.50	19.7	30.1	-14.5	-10.9	2.0	0.9	4.0	23.7	15.3	17.3	5.5
25.00	19.7	29.9	-12.3	-11.8	2.0	0.9	4.0	23.7	15.2	17.3	5.8
25.50	19.9	29.4	-13.1	-13.3	1.9	0.9	3.2	23.0	15.1	17.0	6.1
26.00	20.4	28.7	-16.2	-17.4	1.8	0.9	2.2	22.6	14.5	15.9	6.3
26.50	21.2	27.9	-17.4	-20.5	1.5	0.9	0.9	22.1	13.5	15.1	6.9
27.00	21.3	28.0	-14.3	-8.3	1.3	0.8	-0.2	21.1	12.5	14.4	7.6
27.50	20.4	29.0	-11.7	-5.0	1.3	0.6	-1.4	19.1	10.2	12.4	8.8
28.00	18.7	30.9	-9.3	-5.1	1.7	0.7	0.4	19.1	9.4	11.9	10.0
28.50	16.6	33.0	-8.1	-5.6	2.6	0.8	3.1	19.7	10.4	13.1	11.3
29.00	14.5	34.3	-7.7	-9.2	4.6	1.0	5.4	20.0	10.3	12.9	12.4
29.50	12.9	35.4	-8.4	-15.4	7.2	1.1	5.8	18.6	10.0	12.6	13.2
30.00	11.1	36.9	-11.2	-11.7	11.0	1.0	6.5	17.5	9.2	11.8	13.9

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain(Power Gain) = S21 (dB)

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	20.9	59.8	-16.2	-18.5	43.0	1.0	-	-	21.5	22.6	21.5
0.02	20.7	54.1	-16.6	-19.4	22.7	1.0	9.8	30.5	21.5	22.6	20.6
0.03	20.7	61.2	-16.2	-19.6	51.8	1.0	9.8	30.4	21.4	22.5	20.9
0.04	20.6	57.0	-16.0	-19.6	32.2	1.0	14.3	34.9	21.6	23.0	20.8
0.05	20.6	66.8	-16.1	-19.5	99.5	1.0	14.2	34.8	21.5	23.0	20.9
0.06	20.5	61.9	-16.0	-19.3	56.7	1.0	9.3	29.9	21.4	22.8	20.8
0.07	20.5	65.7	-16.1	-19.4	88.6	1.0	12.2	32.7	21.3	22.7	20.8
0.08	20.5	61.0	-16.1	-19.3	51.5	1.0	9.8	30.3	21.3	22.8	20.6
0.09	20.5	69.9	-16.1	-19.4	143.8	1.0	14.2	34.6	21.2	22.8	20.5
0.10	20.5	61.0	-16.1	-19.5	51.7	1.0	9.9	30.3	21.1	22.7	20.4
0.20	20.3	82.4	-16.4	-20.6	619.4	1.0	10.1	30.4	20.4	22.3	19.3
0.25	20.3	82.4	-16.4	-20.6	619.4	1.0	10.1	30.4	20.4	22.0	19.3
0.50	20.0	67.3	-15.7	-23.1	113.4	1.0	8.2	28.2	19.1	21.6	15.5
1.00	19.0	60.5	-14.0	-33.0	58.4	1.0	9.3	28.3	18.1	21.1	11.4
1.50	19.0	58.4	-14.2	-22.1	46.1	1.0	8.2	27.2	18.1	21.5	8.9
2.00	19.1	54.8	-14.3	-18.6	30.0	1.0	8.6	27.8	18.1	21.5	7.2
2.50	19.1	51.7	-13.9	-17.4	21.0	1.0	8.9	28.0	18.2	21.7	6.2
3.00	18.9	52.4	-12.8	-17.4	23.2	1.0	8.1	27.0	18.3	21.8	5.4
3.50	18.9	56.9	-12.9	-16.3	38.9	1.0	9.2	28.1	18.5	21.9	4.9
4.00	19.1	56.2	-14.1	-15.4	35.5	1.0	9.4	28.5	18.6	21.8	4.3
4.50	19.2	54.2	-15.6	-14.5	28.5	1.0	8.5	27.6	18.7	21.9	3.9
5.00	19.2	51.2	-17.1	-13.5	20.1	1.0	8.5	27.7	18.6	21.9	3.6
5.50	19.2	49.6	-18.0	-13.2	16.9	1.0	9.9	29.1	18.7	21.8	3.3
6.00	19.2	48.1	-18.6	-13.8	14.5	1.0	9.3	28.4	18.8	21.9	3.1
6.50	19.2	46.2	-18.8	-15.4	11.8	1.0	9.0	28.2	18.8	22.0	2.9
7.00	19.2	46.0	-18.6	-17.5	11.8	1.0	9.4	28.5	18.9	21.9	2.7
7.50	19.2	44.7	-18.9	-19.0	10.3	1.0	9.1	28.3	19.0	21.8	2.7
8.00	19.2	43.0	-20.2	-19.0	8.4	1.0	9.3	28.4	19.0	21.6	2.6
8.50	19.2	42.3	-21.6	-18.6	7.9	1.0	8.9	28.1	19.2	21.7	2.7
9.00	19.2	41.0	-20.6	-18.9	6.9	1.0	9.7	28.9	19.3	21.8	2.6
9.50	19.2	41.3	-18.2	-16.5	6.9	1.0	9.7	28.9	19.6	21.9	2.6
10.00	19.2	41.3	-16.6	-13.9	6.8	1.0	9.2	28.4	19.6	21.8	2.6
10.50	19.2	41.1	-16.3	-12.5	6.5	1.0	9.9	29.1	19.6	21.6	2.7
11.00	19.3	40.1	-18.3	-12.4	5.8	1.0	8.9	28.3	19.5	21.4	2.7
11.50	19.4	39.0	-24.3	-13.6	5.3	1.0	9.3	28.7	19.3	21.2	2.8
12.00	19.4	38.5	-34.4	-16.2	5.1	1.0	8.9	28.4	19.3	21.2	2.9
12.50	19.4	37.8	-22.7	-22.9	4.8	1.0	9.2	28.7	19.0	20.7	2.9
13.00	19.3	37.2	-18.9	-25.2	4.6	1.0	9.2	28.4	18.6	20.3	3.0
13.50	19.0	37.3	-17.0	-17.8	4.7	1.0	9.2	28.2	18.6	20.4	3.2
14.00	18.7	38.1	-16.3	-16.0	5.3	1.0	10.5	29.2	18.6	20.3	3.5
14.50	18.5	39.4	-17.0	-14.0	6.2	1.0	9.6	28.1	18.5	20.3	3.7
15.00	18.7	37.9	-19.7	-12.6	5.2	0.9	10.0	28.7	18.8	20.5	3.6
15.50	18.8	36.7	-21.9	-11.9	4.4	0.9	9.5	28.3	18.9	20.5	3.5
16.00	19.0	35.8	-21.4	-11.6	3.9	0.9	9.2	28.2	19.2	20.5	3.7
16.50	19.1	35.2	-21.3	-10.6	3.5	0.9	9.4	28.5	19.1	20.4	3.9
17.00	19.3	35.0	-22.3	-9.7	3.3	0.9	8.0	27.2	18.8	20.1	3.9
17.50	19.5	33.7	-23.3	-9.3	2.8	0.9	7.8	27.3	18.8	20.1	4.1
18.00	19.9	32.4	-26.3	-9.7	2.4	0.9	7.6	27.4	18.7	20.0	4.2
18.50	20.1	31.4	-28.5	-10.9	2.2	0.9	6.0	26.1	17.8	19.5	4.4
19.00	20.3	31.1	-16.9	-16.3	2.1	0.9	6.3	26.6	16.9	18.9	4.4
19.50	20.1	31.3	-12.0	-20.3	2.2	1.0	6.5	26.6	17.0	18.9	4.3
20.00	19.6	31.5	-11.5	-13.4	2.3	1.0	8.0	27.6	17.4	19.1	4.3
20.50	19.6	31.3	-14.1	-13.4	2.3	0.9	7.8	27.4	17.7	19.1	4.3
21.00	19.9	30.9	-18.5	-16.3	2.2	0.9	7.3	27.2	17.4	19.0	4.2
21.50	20.1	30.5	-20.6	-19.1	2.1	0.9	6.7	26.8	17.4	18.9	4.4
22.00	20.3	30.2	-26.0	-17.4	2.0	0.9	6.8	27.1	17.3	19.0	4.5
22.50	20.4	30.0	-25.0	-14.2	1.9	0.9	5.6	26.0	17.1	18.9	4.6
23.00	20.4	29.8	-21.0	-13.7	1.9	0.9	4.7	25.1	16.7	18.6	4.6
23.50	20.4	29.7	-25.2	-14.6	1.9	0.9	3.5	23.9	16.2	18.0	4.8
24.00	20.2	29.9	-22.7	-12.4	1.9	0.9	4.2	24.4	15.7	17.5	5.1
24.50	20.0	30.1	-14.5	-11.0	1.9	0.9	3.6	23.6	15.8	17.8	5.5
25.00	20.0	29.9	-12.2	-11.8	1.9	0.9	3.8	23.8	15.6	17.7	5.7
25.50	20.1	29.6	-12.8	-12.9	1.9	0.9	2.7	22.8	15.5	17.3	6.0
26.00	20.6	28.8	-15.6	-15.6	1.7	0.9	2.1	22.7	15.0	16.4	6.3
26.50	21.4	28.0	-16.9	-27.7	1.5	0.9	0.6	22.0	14.1	15.5	6.7
27.00	21.8	27.9	-14.2	-9.5	1.3	0.8	-0.9	21.0	12.8	14.9	7.5
27.50	21.2	28.7	-11.5	-5.0	1.1	0.6	-2.7	18.5	10.3	12.7	8.6
28.00	19.5	30.6	-9.1	-4.9	1.5	0.7	-1.1	18.5	9.0	11.8	9.8
28.50	17.4	32.6	-7.9	-5.1	2.2	0.8	2.0	19.3	10.2	13.1	11.1
29.00	15.2	34.1	-7.5	-8.3	3.9	1.0	4.6	19.8	10.3	13.1	12.1
29.50	13.6	34.7	-8.2	-14.3	6.0	1.1	5.0	18.7	10.1	12.9	13.1
30.00	11.9	36.2	-10.9	-11.6	9.3	1.0	5.9	17.7	9.4	12.2	13.8

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)
 Gain(Power Gain) = S21 (dB)
 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	18.4	66.5	-16.4	-17.8	124.0	1.0	-	-	20.1	21.6	22.0
0.02	18.2	63.3	-16.5	-18.7	87.4	1.0	14.7	32.9	19.8	21.4	21.4
0.03	18.1	58.6	-16.3	-19.0	51.3	1.0	13.9	32.1	19.9	21.6	21.5
0.04	18.1	55.2	-16.1	-19.1	35.0	1.0	12.7	30.8	19.9	21.8	21.5
0.05	18.0	68.6	-16.1	-19.0	164.4	1.0	11.8	29.8	19.9	21.8	21.5
0.06	18.0	58.3	-16.1	-18.9	50.4	1.0	12.8	30.8	19.9	21.7	21.5
0.07	18.0	63.8	-16.1	-18.9	94.8	1.0	13.2	31.2	19.8	21.6	21.4
0.08	17.9	60.3	-16.1	-18.9	64.0	1.0	11.5	29.4	19.7	21.7	21.3
0.09	17.9	65.6	-16.1	-19.0	118.2	1.0	11.9	29.9	19.7	21.6	21.2
0.10	17.9	65.8	-16.1	-19.1	120.8	1.0	11.6	29.5	19.6	21.6	21.1
0.20	17.7	67.5	-16.4	-20.0	151.6	1.0	12.1	29.8	19.0	21.4	19.9
0.25	17.7	67.5	-16.4	-20.0	151.6	1.0	12.1	29.8	19.0	21.1	19.9
0.50	17.2	66.3	-15.7	-21.1	139.8	1.0	10.9	28.1	17.8	20.9	16.1
1.00	16.2	65.8	-14.2	-27.8	149.3	1.0	10.5	26.7	16.8	20.4	12.3
1.50	16.2	59.1	-14.2	-21.3	69.3	1.0	10.1	26.3	16.5	20.5	9.8
2.00	16.2	55.4	-14.1	-18.2	44.8	1.0	10.2	26.5	16.6	20.6	8.2
2.50	16.2	53.4	-13.7	-16.9	35.5	1.0	10.4	26.6	16.8	20.7	7.2
3.00	16.1	52.9	-13.0	-16.5	34.1	1.0	11.0	27.0	17.0	20.9	6.6
3.50	16.1	56.5	-13.4	-15.8	52.2	1.0	10.7	26.8	17.1	21.0	6.0
4.00	16.2	56.7	-14.5	-15.1	53.1	1.0	10.8	27.0	17.2	21.0	5.5
4.50	16.3	53.0	-16.1	-14.3	34.9	1.0	11.1	27.3	17.1	21.0	5.1
5.00	16.2	50.4	-17.9	-13.5	26.4	1.0	10.9	27.2	17.1	20.8	4.6
5.50	16.2	49.1	-19.0	-13.6	23.0	1.0	10.5	26.6	17.1	21.0	4.4
6.00	16.1	47.0	-19.3	-14.9	18.5	1.0	10.3	26.5	17.3	21.2	4.3
6.50	16.1	46.2	-19.7	-17.0	17.2	1.0	11.0	27.1	17.3	20.8	4.2
7.00	16.1	45.1	-19.7	-18.7	15.5	1.0	10.4	26.5	17.3	20.7	4.2
7.50	16.1	44.1	-20.3	-19.3	14.0	1.0	11.3	27.4	17.4	20.7	4.2
8.00	16.1	43.4	-21.9	-18.8	13.0	1.0	10.8	26.9	17.4	20.7	4.2
8.50	16.0	42.1	-22.8	-18.0	11.2	1.0	11.2	27.2	17.5	20.6	4.4
9.00	16.0	41.0	-20.0	-16.8	9.9	1.0	11.2	27.3	17.7	20.4	4.3
9.50	16.0	41.5	-17.6	-14.5	10.3	1.0	11.7	27.7	17.8	20.5	4.3
10.00	16.0	41.1	-16.7	-12.8	9.7	1.0	11.4	27.4	17.9	20.5	4.5
10.50	16.0	40.2	-17.8	-12.3	8.8	1.0	11.2	27.2	17.8	20.0	4.5
11.00	16.1	39.5	-21.3	-12.7	8.2	1.0	11.0	27.1	17.9	20.1	4.6
11.50	16.1	39.1	-32.1	-14.2	8.0	1.0	11.2	27.3	17.8	19.8	4.6
12.00	16.1	38.2	-28.4	-18.2	7.5	1.0	10.4	26.5	17.7	19.6	4.7
12.50	16.0	37.5	-21.1	-24.0	7.1	1.0	11.3	27.2	17.1	19.0	4.9
13.00	15.7	37.2	-18.8	-18.7	7.0	1.0	11.1	26.9	16.7	18.5	5.1
13.50	15.4	37.2	-18.5	-15.9	7.2	1.0	12.5	27.9	17.0	18.8	5.4
14.00	15.1	38.1	-19.3	-14.9	8.2	1.0	12.1	27.2	17.1	18.9	5.7
14.50	15.1	38.5	-21.1	-13.7	8.6	1.0	12.3	27.3	17.1	18.9	5.9
15.00	15.3	37.1	-24.3	-12.8	7.2	0.9	11.5	26.8	17.1	19.0	5.8
15.50	15.4	36.1	-24.3	-12.1	6.2	0.9	10.9	26.4	17.2	18.9	5.8
16.00	15.5	35.5	-22.4	-11.1	5.7	0.9	11.0	26.5	16.9	18.6	6.0
16.50	15.6	34.7	-22.5	-10.7	5.1	0.9	10.8	26.5	17.0	18.7	6.1
17.00	15.8	34.0	-25.1	-11.4	4.7	0.9	10.1	25.9	16.5	18.1	6.2
17.50	16.1	32.9	-27.9	-12.4	4.2	0.9	9.8	25.9	16.2	18.0	6.3
18.00	16.1	32.1	-24.7	-13.8	3.8	0.9	9.0	25.2	16.0	17.9	6.6
18.50	16.1	31.6	-19.3	-18.2	3.7	1.0	9.2	25.4	15.8	17.8	6.8
19.00	16.0	31.6	-15.3	-26.3	3.8	1.0	8.2	24.2	15.1	17.1	6.8
19.50	15.7	31.8	-14.1	-16.6	3.9	1.0	8.1	23.9	15.0	16.8	6.9
20.00	15.7	31.6	-15.9	-15.7	3.9	1.0	8.5	24.1	14.8	16.6	6.9
20.50	15.8	31.2	-19.9	-17.8	3.7	1.0	9.2	24.9	15.1	17.0	7.0
21.00	15.9	30.9	-23.2	-19.8	3.6	1.0	8.2	24.2	14.9	17.0	7.1
21.50	16.0	30.7	-25.6	-18.1	3.5	1.0	8.2	24.1	14.5	16.6	7.1
22.00	15.9	30.6	-25.3	-14.7	3.5	0.9	7.4	23.3	14.0	16.2	7.3
22.50	15.7	30.5	-23.0	-12.8	3.5	0.9	7.0	22.7	13.8	16.2	7.5
23.00	15.5	30.5	-23.5	-12.0	3.5	0.9	6.9	22.4	13.3	15.7	7.9
23.50	15.3	30.6	-23.2	-11.5	3.6	0.9	6.1	21.4	12.9	15.3	8.2
24.00	15.2	30.5	-18.4	-12.0	3.6	0.9	4.5	19.7	12.3	14.8	8.6
24.50	15.3	30.4	-16.3	-13.8	3.6	1.0	4.9	20.2	11.7	14.4	8.9
25.00	15.4	30.2	-17.4	-17.4	3.6	1.0	4.9	20.3	11.1	14.0	9.4
25.50	15.3	29.9	-25.1	-31.2	3.6	1.0	3.3	18.7	10.1	12.7	10.0
26.00	14.9	30.1	-21.9	-14.6	3.8	1.0	2.4	17.2	8.9	11.3	10.6
26.50	13.8	31.1	-17.2	-10.0	4.5	0.9	3.8	17.6	9.3	11.8	11.5
27.00	12.4	32.7	-15.8	-8.8	6.0	0.9	4.9	17.3	9.0	11.5	12.5
27.50	10.7	34.0	-13.6	-8.7	8.4	0.9	6.5	17.1	8.0	10.5	13.6
28.00	9.0	35.8	-11.5	-9.5	12.3	0.9	6.8	15.8	7.8	10.4	14.7
28.50	7.4	37.3	-10.6	-12.5	18.3	1.0	7.4	14.8	7.3	9.9	15.8
29.00	6.0	37.2	-10.5	-20.7	22.6	1.1	7.4	13.4	6.4	9.1	16.6
29.50	4.6	38.7	-11.5	-21.7	32.5	1.1	7.0	11.5	5.2	8.2	17.5
30.00	3.1	40.4	-13.3	-16.6	48.1	1.0	7.1	10.2	3.4	6.7	18.3

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain(Power Gain) = S21 (dB)

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	18.5	61.6	-16.5	-18.0	69.7	1.0	-	-	20.7	21.8	22.3
0.02	18.4	53.6	-16.4	-18.9	28.3	1.0	13.5	31.9	20.5	21.7	21.9
0.03	18.3	57.1	-16.4	-18.9	42.6	1.0	11.9	30.2	20.6	21.9	21.9
0.04	18.2	61.7	-16.1	-18.9	72.5	1.0	13.2	31.4	20.6	22.0	21.8
0.05	18.2	59.3	-16.1	-19.0	55.4	1.0	12.9	31.0	20.7	22.1	21.9
0.06	18.2	63.1	-16.1	-19.0	85.6	1.0	13.1	31.2	20.6	22.0	21.8
0.07	18.1	57.9	-16.1	-18.9	47.6	1.0	11.8	30.0	20.5	21.9	21.8
0.08	18.1	66.7	-16.1	-18.9	131.3	1.0	12.7	30.8	20.4	22.0	21.5
0.09	18.1	71.7	-16.1	-19.0	234.0	1.0	13.1	31.2	20.4	21.9	21.6
0.10	18.1	67.8	-16.1	-19.1	149.1	1.0	12.2	30.3	20.4	21.9	21.5
0.20	17.9	73.8	-16.4	-20.0	306.0	1.0	11.2	29.1	19.7	21.7	20.2
0.25	17.9	73.8	-16.4	-20.0	306.0	1.0	11.2	29.1	19.7	21.5	20.2
0.50	17.6	73.3	-15.7	-21.2	300.1	1.0	10.5	28.0	18.4	21.2	16.4
1.00	16.6	64.9	-14.1	-28.2	128.1	1.0	9.9	26.5	17.3	20.7	12.5
1.50	16.6	57.4	-14.2	-21.4	54.7	1.0	9.5	26.1	17.1	20.9	10.0
2.00	16.6	55.3	-14.1	-18.3	42.7	1.0	10.1	26.8	17.2	21.1	8.4
2.50	16.6	52.9	-13.6	-17.0	32.2	1.0	10.1	26.8	17.4	21.1	7.5
3.00	16.5	53.0	-13.0	-16.6	33.1	1.0	10.1	26.6	17.5	21.4	6.8
3.50	16.5	55.8	-13.3	-15.8	45.7	1.0	10.5	27.0	17.7	21.4	6.2
4.00	16.6	55.8	-14.4	-15.2	45.6	1.0	10.5	27.1	17.7	21.5	5.5
4.50	16.7	52.6	-16.1	-14.3	31.9	1.0	10.8	27.4	17.7	21.4	5.1
5.00	16.6	49.8	-17.9	-13.5	23.4	1.0	10.4	27.0	17.6	21.2	4.5
5.50	16.6	50.5	-19.0	-13.6	25.7	1.0	10.2	26.8	17.7	21.4	4.5
6.00	16.5	47.9	-19.4	-14.8	19.5	1.0	10.0	26.5	17.8	21.6	4.4
6.50	16.5	46.5	-19.7	-16.8	17.0	1.0	10.6	27.1	17.8	21.2	4.3
7.00	16.5	45.4	-19.8	-18.6	15.4	1.0	10.1	26.6	17.8	21.2	4.2
7.50	16.5	44.1	-20.3	-19.3	13.4	1.0	10.6	27.1	17.9	21.2	4.2
8.00	16.4	43.2	-21.9	-18.8	12.2	1.0	10.3	26.7	18.0	21.1	4.2
8.50	16.4	41.9	-22.8	-18.2	10.6	1.0	10.8	27.2	18.1	21.1	4.3
9.00	16.4	41.4	-20.1	-17.0	9.9	1.0	10.9	27.3	18.2	20.9	4.4
9.50	16.4	41.2	-17.7	-14.7	9.5	1.0	11.0	27.4	18.3	21.0	4.4
10.00	16.4	41.1	-16.7	-12.9	9.3	1.0	10.5	26.9	18.4	21.0	4.5
10.50	16.4	40.4	-17.8	-12.3	8.5	1.0	10.3	26.7	18.2	20.5	4.5
11.00	16.5	39.8	-21.3	-12.7	8.0	1.0	10.6	27.1	18.3	20.6	4.6
11.50	16.5	39.0	-31.5	-14.2	7.6	1.0	10.2	26.7	18.2	20.3	4.7
12.00	16.5	38.2	-28.8	-18.0	7.1	1.0	9.8	26.3	18.1	20.2	4.7
12.50	16.4	37.5	-21.2	-24.2	6.8	1.0	10.9	27.3	17.5	19.5	4.9
13.00	16.1	37.4	-18.8	-19.1	6.8	1.0	10.3	26.4	17.1	19.0	5.0
13.50	15.8	37.4	-18.5	-16.2	7.0	1.0	11.2	27.0	17.5	19.4	5.3
14.00	15.5	38.3	-19.2	-15.0	8.0	1.0	11.5	27.0	17.7	19.5	5.8
14.50	15.5	38.4	-21.0	-13.7	8.2	1.0	11.7	27.1	17.6	19.4	5.9
15.00	15.7	37.2	-24.1	-12.8	6.9	0.9	10.6	26.3	17.6	19.6	5.7
15.50	15.8	36.3	-24.1	-12.1	6.1	0.9	10.4	26.2	17.8	19.5	5.8
16.00	15.9	35.5	-22.1	-11.0	5.4	0.9	10.3	26.2	17.4	19.2	5.9
16.50	16.0	34.7	-22.3	-10.5	4.9	0.9	9.5	25.6	17.6	19.3	6.1
17.00	16.2	34.1	-24.9	-11.2	4.5	0.9	8.9	25.1	17.1	18.7	6.3
17.50	16.5	33.1	-28.1	-12.1	4.0	0.9	9.1	25.5	16.8	18.6	6.4
18.00	16.6	32.1	-25.4	-13.3	3.6	0.9	8.8	25.3	16.5	18.5	6.6
18.50	16.6	31.7	-19.6	-17.4	3.6	1.0	8.3	24.9	16.3	18.4	6.8
19.00	16.5	31.6	-15.2	-26.6	3.6	1.0	8.0	24.4	15.5	17.7	6.8
19.50	16.2	31.6	-14.0	-16.7	3.6	1.0	7.1	23.3	15.4	17.4	6.8
20.00	16.1	31.6	-15.7	-15.6	3.7	1.0	8.1	24.2	15.3	17.2	6.9
20.50	16.2	31.4	-19.6	-17.7	3.6	1.0	8.3	24.5	15.6	17.6	6.9
21.00	16.4	30.9	-22.9	-20.0	3.5	1.0	8.1	24.4	15.5	17.6	7.0
21.50	16.4	30.8	-25.7	-18.7	3.4	1.0	7.4	23.8	15.0	17.2	7.1
22.00	16.4	30.4	-26.0	-15.3	3.3	0.9	7.1	23.5	14.5	16.8	7.3
22.50	16.2	30.4	-23.3	-13.2	3.3	0.9	6.5	22.7	14.3	16.8	7.6
23.00	16.0	30.5	-23.5	-12.2	3.4	0.9	5.9	21.9	13.8	16.3	7.8
23.50	15.8	30.7	-23.1	-11.6	3.5	0.9	6.1	21.9	13.4	15.8	8.2
24.00	15.7	30.6	-18.3	-11.9	3.5	0.9	4.3	20.0	12.9	15.5	8.5
24.50	15.7	30.6	-16.1	-13.5	3.5	1.0	4.7	20.4	12.3	15.0	8.9
25.00	15.8	30.3	-16.9	-16.4	3.5	1.0	4.4	20.2	11.6	14.5	9.4
25.50	15.9	30.0	-24.2	-27.1	3.5	1.0	2.6	18.5	10.5	13.2	9.8
26.00	15.6	30.0	-23.0	-16.0	3.5	1.0	1.3	16.9	9.1	11.6	10.4
26.50	14.6	30.8	-17.1	-10.4	4.0	0.9	2.8	17.5	9.5	11.2	11.2
27.00	13.3	32.1	-15.6	-8.8	5.0	0.9	4.0	17.3	9.3	11.9	12.3
27.50	11.5	33.7	-13.4	-8.5	7.2	0.9	5.3	16.8	8.1	10.8	13.4
28.00	9.8	35.1	-11.4	-9.0	10.2	0.9	5.9	15.7	8.1	10.8	14.5
28.50	8.2	36.4	-10.5	-11.7	14.8	1.0	6.7	15.0	7.7	10.4	15.6
29.00	6.8	37.1	-10.4	-18.7	20.2	1.1	7.1	13.9	6.6	9.6	16.4
29.50	5.4	38.9	-11.4	-21.5	30.2	1.1	6.8	12.2	5.5	8.8	17.2
30.00	3.9	39.8	-13.2	-16.5	40.4	1.0	6.2	10.1	4.1	7.4	18.1

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain(Power Gain) = S21 (dB)

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	18.6	62.7	-16.5	-17.8	77.6	1.0	-	-	21.1	22.1	22.7
0.02	18.5	61.5	-16.4	-18.6	68.3	1.0	11.9	30.4	20.9	21.9	22.1
0.03	18.4	59.1	-16.3	-19.0	52.7	1.0	14.1	32.5	21.1	22.1	22.2
0.04	18.3	57.0	-16.1	-19.0	41.8	1.0	12.6	30.9	21.1	22.3	22.1
0.05	18.3	69.6	-16.1	-18.9	177.8	1.0	13.9	32.2	21.2	22.3	22.2
0.06	18.3	61.8	-16.1	-18.9	73.1	1.0	12.6	30.8	21.1	22.2	22.1
0.07	18.3	74.9	-16.1	-18.9	329.4	1.0	15.5	33.8	21.0	22.1	22.1
0.08	18.2	71.7	-16.1	-18.9	229.4	1.0	11.9	30.1	21.0	22.2	21.9
0.09	18.2	78.5	-16.0	-19.0	499.5	1.0	12.7	30.9	20.9	22.2	21.8
0.10	18.2	69.8	-16.1	-19.0	183.7	1.0	11.3	29.5	20.8	22.2	21.7
0.20	18.1	64.1	-16.4	-20.0	98.2	1.0	11.6	29.7	20.2	22.0	20.5
0.25	18.1	64.1	-16.4	-20.0	98.2	1.0	11.6	29.7	20.2	21.8	20.5
0.50	17.8	71.8	-15.7	-21.4	245.6	1.0	10.3	28.1	18.8	21.5	16.7
1.00	16.9	60.0	-14.1	-28.7	70.6	1.0	9.7	26.5	17.8	21.1	12.8
1.50	16.8	58.0	-14.1	-21.5	56.8	1.0	9.4	26.2	17.5	21.3	10.2
2.00	16.9	54.7	-14.0	-18.4	38.4	1.0	9.7	26.6	17.6	21.4	8.6
2.50	16.9	52.5	-13.6	-17.0	29.8	1.0	9.8	26.7	17.8	21.5	7.6
3.00	16.7	52.1	-13.0	-16.6	28.9	1.0	10.1	26.9	18.0	21.7	6.9
3.50	16.8	55.9	-13.3	-15.8	44.8	1.0	10.1	26.9	18.1	21.8	6.3
4.00	16.9	56.3	-14.4	-15.2	47.2	1.0	10.3	27.3	18.1	21.8	5.7
4.50	16.9	52.2	-16.1	-14.3	29.4	1.0	10.5	27.5	18.1	21.8	5.1
5.00	16.9	50.6	-17.9	-13.4	24.9	1.0	10.3	27.2	18.0	21.5	4.7
5.50	16.8	49.4	-19.0	-13.5	22.0	1.0	9.6	26.4	18.1	21.8	4.5
6.00	16.8	47.6	-19.3	-14.7	18.4	1.0	10.1	26.9	18.2	22.0	4.5
6.50	16.8	46.5	-19.7	-16.7	16.5	1.0	10.4	27.2	18.2	21.6	4.3
7.00	16.8	45.6	-19.8	-18.5	15.1	1.0	10.0	26.8	18.2	21.6	4.2
7.50	16.7	44.3	-20.4	-19.3	13.2	1.0	10.9	27.6	18.4	21.6	4.3
8.00	16.7	43.3	-21.9	-18.8	11.9	1.0	10.5	27.3	18.4	21.6	4.2
8.50	16.7	41.8	-22.9	-18.3	10.0	1.0	10.4	27.1	18.5	21.6	4.4
9.00	16.7	41.0	-20.1	-17.2	9.2	1.0	10.3	27.0	18.7	21.3	4.4
9.50	16.7	40.9	-17.7	-14.8	9.0	1.0	10.6	27.3	18.7	21.5	4.4
10.00	16.7	41.1	-16.8	-13.0	9.0	1.0	10.3	26.9	18.8	21.5	4.5
10.50	16.7	40.2	-17.8	-12.4	8.1	1.0	10.1	26.8	18.6	21.0	4.6
11.00	16.8	39.7	-21.3	-12.7	7.7	1.0	10.3	27.1	18.7	21.0	4.6
11.50	16.8	38.8	-31.4	-14.1	7.2	1.0	10.7	27.5	18.5	20.8	4.7
12.00	16.8	38.2	-29.0	-17.9	6.9	1.0	9.0	25.8	18.4	20.6	4.8
12.50	16.7	37.8	-21.3	-24.4	6.8	1.0	9.6	26.2	17.9	19.9	4.9
13.00	16.4	37.2	-18.8	-19.5	6.4	1.0	9.5	25.9	17.4	19.5	5.1
13.50	16.1	37.4	-18.4	-16.4	6.8	1.0	10.7	26.7	17.8	19.9	5.4
14.00	15.8	38.2	-19.2	-15.2	7.6	1.0	10.8	26.6	18.0	20.0	5.8
14.50	15.8	38.3	-20.9	-13.8	7.8	1.0	10.9	26.6	17.9	19.9	5.9
15.00	15.9	37.2	-24.0	-12.8	6.7	0.9	10.2	26.2	18.0	20.1	5.8
15.50	16.1	36.2	-24.0	-12.0	5.8	0.9	9.7	25.8	18.3	20.0	5.8
16.00	16.2	35.4	-22.0	-11.0	5.2	0.9	10.0	26.1	17.9	19.8	6.0
16.50	16.3	34.9	-22.2	-10.5	4.9	0.9	8.6	24.9	17.9	19.8	6.1
17.00	16.5	34.3	-24.8	-11.0	4.5	0.9	8.0	24.5	17.6	19.2	6.3
17.50	16.7	33.1	-28.1	-11.9	3.9	0.9	8.0	24.7	17.1	19.1	6.5
18.00	16.9	32.4	-25.6	-13.0	3.6	0.9	7.7	24.6	16.8	19.0	6.6
18.50	16.9	31.7	-19.7	-16.8	3.4	1.0	7.1	24.0	16.6	18.9	6.8
19.00	16.8	31.6	-15.2	-27.0	3.5	1.0	7.1	23.9	15.8	18.2	6.9
19.50	16.5	31.8	-13.9	-16.9	3.6	1.0	6.7	23.1	15.6	17.8	6.8
20.00	16.4	31.7	-15.6	-15.5	3.6	1.0	7.5	23.8	15.6	17.6	6.9
20.50	16.5	31.3	-19.4	-17.6	3.5	1.0	7.4	23.9	16.0	18.1	6.9
21.00	16.6	31.0	-22.7	-20.2	3.4	1.0	7.0	23.6	15.8	18.1	7.0
21.50	16.7	30.7	-25.6	-19.2	3.3	1.0	6.9	23.6	15.3	17.6	7.2
22.00	16.7	30.7	-26.3	-15.8	3.3	1.0	6.1	22.8	14.7	17.2	7.3
22.50	16.5	30.5	-23.4	-13.6	3.2	0.9	5.7	22.2	14.6	17.2	7.5
23.00	16.3	30.6	-23.5	-12.5	3.3	0.9	5.6	21.9	14.0	16.7	7.8
23.50	16.1	30.6	-23.2	-11.8	3.4	0.9	5.4	21.5	13.6	16.2	8.2
24.00	16.0	30.6	-18.3	-11.9	3.4	0.9	3.8	19.8	13.3	15.9	8.5
24.50	16.0	30.6	-16.0	-13.2	3.4	0.9	4.2	20.2	12.6	15.4	8.9
25.00	16.0	30.4	-16.7	-15.6	3.4	1.0	4.3	20.3	11.9	14.9	9.5
25.50	16.1	30.1	-23.4	-23.3	3.4	1.0	2.2	18.3	10.8	13.6	9.7
26.00	16.0	30.0	-24.1	-17.9	3.4	1.0	0.8	16.8	9.1	11.8	10.3
26.50	15.2	30.5	-17.2	-11.1	3.7	0.9	2.0	17.1	9.5	12.3	11.1
27.00	13.9	31.7	-15.5	-9.0	4.5	0.9	3.3	17.2	9.3	12.2	12.1
27.50	12.1	33.5	-13.2	-8.4	6.6	0.9	4.6	16.8	8.1	11.0	13.4
28.00	10.4	35.1	-11.3	-8.7	9.3	0.9	5.4	15.8	7.9	11.0	14.4
28.50	8.8	36.1	-10.3	-10.9	13.2	1.0	6.1	15.0	7.7	10.7	15.4
29.00	7.5	37.0	-10.3	-17.0	18.4	1.1	6.7	14.2	6.9	9.9	16.3
29.50	6.1	37.8	-11.3	-20.7	24.6	1.1	6.5	12.6	5.9	9.1	17.1
30.00	4.6	39.4	-13.2	-16.5	35.7	1.0	6.0	10.6	4.6	7.9	18.0

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

- Input Return Loss = S11 (dB)
- Gain(Power Gain) = S21 (dB)
- 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	18.1	60.0	-16.4	-17.9	60.7	1.0	-	-	20.0	21.5	22.4
0.02	17.9	73.5	-16.6	-18.8	292.8	1.0	8.6	26.6	19.9	21.6	21.3
0.03	17.8	63.9	-16.3	-18.9	97.9	1.0	11.1	28.9	20.0	21.5	21.7
0.04	17.8	61.3	-16.3	-18.9	72.5	1.0	13.0	30.8	20.0	21.9	21.6
0.05	17.7	61.5	-16.2	-18.9	74.6	1.0	12.9	30.7	19.9	21.8	21.7
0.06	17.7	68.5	-16.2	-18.9	169.4	1.0	15.1	32.8	19.8	21.7	21.6
0.07	17.7	76.5	-16.2	-18.8	425.6	1.0	12.2	29.9	19.8	21.6	21.6
0.08	17.7	82.5	-16.2	-18.9	845.8	1.0	13.3	31.0	19.9	21.7	21.5
0.09	17.6	76.2	-16.2	-18.9	412.3	1.0	12.7	30.3	19.8	21.6	21.4
0.10	17.6	67.9	-16.2	-19.0	160.4	1.0	12.4	30.0	19.7	21.6	21.3
0.20	17.4	77.4	-16.5	-19.9	489.6	1.0	12.2	29.6	19.0	21.3	20.1
0.25	17.4	77.4	-16.5	-19.9	489.6	1.0	12.2	29.6	19.0	21.0	20.1
0.50	16.9	69.1	-15.7	-20.7	199.8	1.0	10.0	26.9	17.8	20.7	16.3
1.00	15.9	62.4	-14.2	-27.1	104.7	1.0	11.0	26.8	16.8	20.3	12.4
1.50	15.8	58.6	-14.1	-21.2	68.0	1.0	10.2	26.0	16.6	20.6	10.0
2.00	15.9	56.8	-14.0	-18.2	55.0	1.0	10.7	26.6	16.7	20.5	8.5
2.50	15.9	54.3	-13.6	-16.8	41.2	1.0	10.4	26.2	16.7	20.7	7.5
3.00	15.8	53.4	-13.1	-16.3	37.7	1.0	9.8	25.6	16.9	20.9	6.8
3.50	15.8	58.2	-13.4	-15.7	65.9	1.0	10.7	26.5	17.1	20.9	6.2
4.00	15.9	56.0	-14.5	-15.1	51.0	1.0	11.1	27.0	17.2	20.8	5.7
4.50	15.9	54.1	-16.3	-14.1	41.3	1.0	10.5	26.4	17.0	20.8	5.3
5.00	15.9	50.8	-18.1	-13.4	28.7	1.0	10.2	26.0	17.0	21.0	5.1
5.50	15.8	48.7	-18.9	-13.7	22.8	1.0	11.2	27.0	17.1	20.8	4.8
6.00	15.8	47.4	-19.2	-15.0	20.1	1.0	10.9	26.7	17.2	20.8	4.6
6.50	15.8	46.6	-19.8	-16.9	18.8	1.0	10.5	26.3	17.1	20.8	4.4
7.00	15.7	44.9	-20.1	-18.6	15.8	1.0	10.8	26.5	17.2	20.7	4.5
7.50	15.7	44.0	-20.5	-19.3	14.4	1.0	10.8	26.5	17.3	20.5	4.4
8.00	15.7	43.5	-22.2	-18.8	13.7	1.0	11.4	27.1	17.2	20.3	4.4
8.50	15.7	42.0	-23.4	-17.8	11.7	1.0	10.5	26.2	17.4	20.3	4.5
9.00	15.7	41.1	-19.9	-16.3	10.4	1.0	10.8	26.5	17.5	20.3	4.5
9.50	15.7	41.1	-17.2	-14.3	10.3	1.0	12.0	27.7	17.6	20.3	4.5
10.00	15.6	40.7	-16.4	-12.8	9.6	1.0	11.0	26.6	17.7	20.3	4.6
10.50	15.7	40.2	-17.9	-12.2	9.2	1.0	11.4	27.0	17.7	20.1	4.7
11.00	15.7	39.5	-22.1	-12.6	8.6	0.9	11.5	27.2	17.6	19.8	4.8
11.50	15.7	38.7	-35.6	-14.5	8.0	1.0	11.3	27.0	17.5	19.7	4.9
12.00	15.7	38.0	-27.1	-18.6	7.7	1.0	10.9	26.6	17.6	19.6	5.1
12.50	15.5	37.4	-21.0	-22.1	7.3	1.0	11.2	26.8	17.2	19.1	5.1
13.00	15.3	37.2	-19.0	-18.6	7.3	1.0	11.7	27.0	16.7	18.6	5.3
13.50	15.0	37.3	-18.8	-16.1	7.7	1.0	12.1	27.1	16.8	18.8	5.7
14.00	14.7	38.2	-19.6	-14.7	8.7	1.0	12.7	27.4	16.9	18.7	6.0
14.50	14.7	38.2	-21.4	-13.5	8.7	1.0	11.6	26.3	16.7	18.6	6.1
15.00	14.9	37.0	-24.7	-12.7	7.4	0.9	11.7	26.5	16.7	18.7	6.1
15.50	15.0	36.0	-25.4	-11.7	6.4	0.9	11.5	26.5	16.7	18.6	6.2
16.00	15.1	35.3	-23.1	-10.9	5.8	0.9	10.6	25.7	16.7	18.5	6.3
16.50	15.2	34.6	-23.3	-11.0	5.4	0.9	10.2	25.4	16.5	18.3	6.4
17.00	15.4	34.0	-25.0	-11.8	5.0	0.9	9.9	25.3	16.2	18.0	6.6
17.50	15.6	33.0	-26.8	-12.7	4.5	0.9	9.9	25.4	16.1	17.9	6.7
18.00	15.6	32.2	-23.5	-14.6	4.1	1.0	9.4	25.0	15.7	17.7	6.9
18.50	15.6	31.7	-18.5	-20.5	4.0	1.0	8.4	23.9	15.3	17.4	7.0
19.00	15.4	31.7	-15.4	-23.9	4.1	1.0	9.6	25.0	14.8	17.0	7.1
19.50	15.2	31.9	-14.7	-17.5	4.3	1.0	8.9	24.1	14.9	17.0	7.2
20.00	15.1	31.6	-16.4	-16.6	4.2	1.0	9.1	24.2	14.9	16.9	7.3
20.50	15.2	31.3	-19.8	-18.1	4.1	1.0	8.7	23.8	14.7	16.8	7.3
21.00	15.3	31.0	-23.1	-18.9	3.9	1.0	8.6	23.9	14.4	16.5	7.5
21.50	15.3	30.8	-25.1	-17.5	3.9	1.0	7.2	22.5	14.2	16.4	7.7
22.00	15.2	30.5	-24.3	-14.7	3.8	1.0	8.0	23.2	13.8	16.2	7.8
22.50	14.9	30.8	-23.0	-12.5	3.9	0.9	7.7	22.6	13.2	15.8	8.1
23.00	14.7	30.8	-24.2	-11.6	4.0	0.9	7.1	21.8	12.8	15.5	8.4
23.50	14.5	30.7	-23.9	-11.9	4.0	0.9	6.5	21.0	12.5	15.1	8.6
24.00	14.4	30.8	-19.0	-12.7	4.1	0.9	5.2	19.6	12.0	14.7	9.0
24.50	14.4	30.6	-16.8	-14.3	4.1	1.0	5.6	20.0	11.4	14.3	9.3
25.00	14.4	30.5	-18.4	-19.4	4.3	1.0	5.4	19.8	10.8	14.0	9.8
25.50	14.2	30.4	-24.8	-24.0	4.4	1.0	4.8	18.9	10.0	12.8	10.4
26.00	13.5	30.9	-20.0	-13.9	4.9	1.0	4.1	17.6	9.2	11.9	11.0
26.50	12.3	32.0	-17.5	-10.6	5.9	0.9	4.4	16.7	8.6	11.4	12.1
27.00	10.8	33.4	-16.3	-9.4	7.9	0.9	6.4	17.3	8.3	11.1	13.1
27.50	9.1	34.4	-13.6	-9.3	10.7	0.9	5.8	14.9	7.6	10.7	14.3
28.00	7.6	36.2	-11.5	-10.5	15.7	1.0	7.2	14.7	7.3	10.3	15.4
28.50	6.1	37.0	-10.5	-13.6	21.2	1.0	8.4	14.5	6.6	9.7	16.4
29.00	4.7	38.3	-10.7	-20.7	30.1	1.1	8.5	13.2	5.6	8.7	17.2
29.50	3.3	39.0	-11.8	-24.5	39.4	1.1	7.6	10.9	4.2	7.6	18.0
30.00	1.8	40.3	-13.6	-17.3	54.7	1.0	7.6	9.4	2.5	6.1	18.9

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)
 Gain(Power Gain) = S21 (dB)
 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 = $+105^{\circ}C$

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	18.3	57.0	-16.5	-17.8	42.1	1.0	-	-	20.6	21.8	22.7
0.02	18.1	54.7	-16.6	-18.9	33.0	1.0	9.6	27.6	20.5	21.8	21.7
0.03	18.0	57.0	-16.4	-18.8	43.7	1.0	14.0	32.0	20.6	21.7	22.1
0.04	17.9	57.0	-16.2	-19.0	43.4	1.0	13.9	31.9	20.6	22.0	22.0
0.05	17.9	59.3	-16.2	-18.9	57.4	1.0	14.4	32.3	20.5	22.0	22.0
0.06	17.9	69.8	-16.1	-18.8	192.1	1.0	13.1	30.9	20.5	21.9	22.0
0.07	17.8	70.7	-16.1	-18.8	213.2	1.0	12.6	30.5	20.4	21.8	22.0
0.08	17.8	63.6	-16.2	-18.8	94.6	1.0	12.4	30.2	20.5	21.9	21.8
0.09	17.8	61.4	-16.1	-18.9	74.2	1.0	13.7	31.5	20.4	21.9	21.7
0.10	17.8	60.7	-16.2	-18.9	67.9	1.0	12.7	30.4	20.3	21.8	21.6
0.20	17.6	69.7	-16.5	-19.8	198.3	1.0	11.3	28.9	19.6	21.6	20.3
0.25	17.6	69.7	-16.5	-19.8	198.3	1.0	11.3	28.9	19.6	21.3	20.3
0.50	17.2	68.2	-15.7	-20.8	174.4	1.0	9.6	26.9	18.3	21.0	16.5
1.00	16.2	61.8	-14.1	-27.5	93.7	1.0	10.6	26.8	17.4	20.7	12.7
1.50	16.2	57.9	-14.1	-21.3	59.9	1.0	10.0	26.2	17.2	20.9	10.2
2.00	16.3	54.5	-14.0	-18.3	40.2	1.0	10.3	26.6	17.1	21.0	8.6
2.50	16.3	53.0	-13.6	-16.8	33.8	1.0	10.0	26.2	17.3	21.2	7.7
3.00	16.1	53.6	-13.0	-16.4	36.9	1.0	9.8	25.9	17.5	21.2	6.9
3.50	16.2	57.2	-13.4	-15.8	56.3	1.0	10.5	26.7	17.6	21.3	6.4
4.00	16.3	56.5	-14.5	-15.1	51.5	1.0	10.8	27.0	17.6	21.2	5.8
4.50	16.3	52.3	-16.2	-14.1	32.3	1.0	10.3	26.6	17.6	21.3	5.4
5.00	16.2	50.9	-18.1	-13.4	27.7	1.0	10.3	26.6	17.6	21.3	5.1
5.50	16.2	48.5	-18.9	-13.6	21.6	1.0	11.1	27.3	17.5	21.2	4.8
6.00	16.2	46.5	-19.2	-14.9	17.5	1.0	10.2	26.4	17.6	21.1	4.7
6.50	16.1	46.0	-19.8	-16.7	16.9	1.0	10.7	26.9	17.7	21.2	4.5
7.00	16.1	44.8	-20.1	-18.4	14.9	1.0	10.8	26.9	17.7	21.0	4.4
7.50	16.1	44.3	-20.6	-19.3	14.4	1.0	10.3	26.4	17.7	21.0	4.4
8.00	16.1	43.0	-22.3	-18.9	12.4	1.0	11.1	27.2	17.8	20.8	4.5
8.50	16.0	41.9	-23.5	-17.9	11.0	1.0	10.8	26.8	18.0	20.8	4.5
9.00	16.0	41.1	-20.0	-16.5	10.0	1.0	10.8	26.8	18.1	20.8	4.6
9.50	16.0	41.3	-17.3	-14.4	10.1	1.0	11.3	27.3	18.2	20.8	4.6
10.00	16.0	40.7	-16.5	-12.9	9.3	1.0	11.5	27.5	18.1	20.7	4.7
10.50	16.0	40.0	-17.9	-12.3	8.5	1.0	11.3	27.4	18.1	20.5	4.7
11.00	16.1	39.4	-22.0	-12.6	8.2	0.9	10.8	26.8	18.2	20.2	4.9
11.50	16.1	38.8	-35.1	-14.5	7.8	1.0	10.6	26.7	17.9	20.1	5.0
12.00	16.0	37.8	-27.4	-18.5	7.2	1.0	10.4	26.4	18.0	20.0	5.0
12.50	15.9	37.2	-21.1	-22.4	6.9	1.0	10.8	26.7	17.6	19.6	5.2
13.00	15.7	37.2	-19.0	-18.9	7.0	1.0	10.6	26.2	17.2	19.1	5.3
13.50	15.3	37.5	-18.8	-16.3	7.5	1.0	11.3	26.6	17.4	19.2	5.6
14.00	15.1	37.9	-19.5	-14.8	8.1	1.0	12.1	27.2	17.3	19.2	6.0
14.50	15.0	38.1	-21.3	-13.6	8.2	1.0	11.3	26.4	17.3	19.1	6.1
15.00	15.2	37.0	-24.5	-12.8	7.2	0.9	10.8	26.0	17.2	19.2	6.0
15.50	15.3	36.0	-25.1	-11.7	6.2	0.9	10.8	26.1	17.3	19.1	6.1
16.00	15.4	35.4	-23.0	-10.9	5.7	0.9	9.8	25.2	17.3	19.0	6.3
16.50	15.6	34.8	-23.0	-10.9	5.2	0.9	9.7	25.3	17.1	18.9	6.5
17.00	15.7	34.0	-24.9	-11.6	4.8	0.9	9.3	25.1	16.7	18.6	6.6
17.50	15.9	33.2	-27.0	-12.4	4.4	0.9	9.7	25.7	16.6	18.5	6.8
18.00	16.0	32.1	-24.0	-14.2	3.9	0.9	8.0	24.0	16.3	18.3	7.0
18.50	16.0	31.8	-18.6	-19.6	3.9	1.0	7.5	23.4	15.7	17.9	7.2
19.00	15.8	31.8	-15.3	-24.1	4.0	1.0	8.8	24.6	15.3	17.5	7.1
19.50	15.6	31.8	-14.6	-17.6	4.0	1.0	8.2	23.8	15.4	17.5	7.2
20.00	15.5	31.7	-16.2	-16.5	4.0	1.0	9.1	24.6	15.4	17.4	7.4
20.50	15.6	31.4	-19.6	-18.0	3.9	1.0	8.2	23.8	15.3	17.4	7.5
21.00	15.7	31.0	-23.0	-19.2	3.8	1.0	8.0	23.7	15.0	17.0	7.5
21.50	15.7	30.7	-25.3	-18.0	3.7	1.0	6.9	22.6	14.6	16.9	7.7
22.00	15.6	30.6	-24.9	-15.2	3.6	1.0	7.2	22.8	14.4	16.7	7.8
22.50	15.4	30.6	-23.1	-12.8	3.7	0.9	7.2	22.6	13.8	16.4	8.0
23.00	15.1	30.8	-24.1	-11.8	3.8	0.9	6.5	21.6	13.4	16.0	8.3
23.50	14.9	30.8	-23.8	-12.0	3.9	0.9	6.0	21.0	13.1	15.6	8.6
24.00	14.8	30.8	-18.9	-12.6	4.0	0.9	4.8	19.6	12.6	15.2	8.9
24.50	14.8	30.7	-16.6	-13.9	4.0	1.0	5.5	20.3	12.1	14.8	9.3
25.00	14.8	30.5	-18.0	-18.1	4.1	1.0	4.9	19.7	11.5	14.4	9.6
25.50	14.7	30.4	-25.2	-26.5	4.2	1.0	4.2	18.9	10.6	13.2	10.3
26.00	14.1	30.7	-20.7	-15.0	4.4	1.0	3.4	17.5	9.6	12.3	10.9
26.50	13.1	31.5	-17.5	-10.9	5.2	0.9	3.6	16.7	8.9	11.7	11.8
27.00	11.7	32.9	-16.2	-9.4	6.8	0.9	5.7	17.3	8.7	11.4	12.9
27.50	9.9	34.7	-13.5	-9.1	10.0	0.9	4.9	14.8	8.0	10.9	14.1
28.00	8.3	35.8	-11.3	-10.1	13.6	1.0	6.5	14.8	7.7	10.6	15.2
28.50	6.8	37.5	-10.4	-12.8	20.3	1.0	7.9	14.7	7.2	10.1	16.2
29.00	5.5	37.9	-10.6	-18.9	26.3	1.1	7.8	13.2	6.3	9.2	17.1
29.50	4.1	38.9	-11.8	-24.1	35.8	1.1	7.1	11.2	5.1	8.1	17.9
30.00	2.6	39.8	-13.6	-17.3	47.3	1.0	7.1	9.7	3.4	6.8	18.7

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

Input Return Loss = S11 (dB)

Gain(Power Gain) = S21 (dB)

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 = $+105^\circ C$

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	18.4	54.0	-16.4	-17.9	29.5	1.0	-	-	20.9	21.9	22.9
0.02	18.2	57.8	-16.5	-18.8	46.3	1.0	11.1	29.3	20.9	22.0	22.0
0.03	18.1	72.9	-16.2	-18.9	267.2	1.0	12.2	30.3	20.9	21.9	22.3
0.04	18.1	57.2	-16.2	-18.8	44.2	1.0	13.9	32.0	21.1	22.3	22.3
0.05	18.0	57.5	-16.2	-18.9	45.9	1.0	13.5	31.5	21.0	22.2	22.3
0.06	18.0	65.3	-16.1	-18.8	113.4	1.0	15.6	33.6	20.9	22.1	22.3
0.07	18.0	67.3	-16.1	-18.8	142.3	1.0	11.5	29.5	20.9	22.0	22.2
0.08	18.0	62.8	-16.1	-18.9	84.7	1.0	12.8	30.7	20.8	22.1	22.1
0.09	17.9	64.9	-16.1	-18.9	108.8	1.0	11.1	29.0	20.9	22.1	22.0
0.10	17.9	73.0	-16.1	-18.9	276.9	1.0	13.2	31.1	20.8	22.0	22.0
0.20	17.8	76.6	-16.5	-19.9	428.9	1.0	11.3	29.1	20.1	21.8	20.7
0.25	17.8	76.6	-16.5	-19.9	428.9	1.0	11.3	29.1	20.1	21.6	20.7
0.50	17.5	80.2	-15.7	-21.0	672.6	1.0	9.7	27.2	18.8	21.3	16.9
1.00	16.5	68.5	-14.1	-28.0	195.8	1.0	10.7	27.2	17.8	20.9	12.9
1.50	16.5	59.1	-14.0	-21.4	67.2	1.0	10.3	26.8	17.6	21.3	10.4
2.00	16.5	54.9	-13.9	-18.4	41.0	1.0	10.7	27.2	17.6	21.3	8.8
2.50	16.5	54.0	-13.5	-16.9	36.7	1.0	10.4	26.9	17.8	21.5	7.8
3.00	16.4	53.5	-13.0	-16.4	35.3	1.0	10.1	26.5	17.9	21.6	7.1
3.50	16.4	56.8	-13.3	-15.8	52.1	1.0	10.3	26.7	18.0	21.6	6.4
4.00	16.5	56.6	-14.4	-15.2	51.0	1.0	11.2	27.8	18.0	21.5	6.0
4.50	16.6	52.7	-16.2	-14.1	32.8	1.0	10.3	26.8	18.0	21.5	5.4
5.00	16.5	50.0	-18.0	-13.3	24.4	1.0	10.2	26.7	18.0	21.7	5.2
5.50	16.5	49.8	-18.9	-13.6	24.1	1.0	10.7	27.2	18.1	21.5	4.9
6.00	16.4	46.9	-19.1	-14.9	17.7	1.0	10.4	26.8	18.0	21.5	4.8
6.50	16.4	45.9	-19.8	-16.6	16.2	1.0	10.6	27.0	18.1	21.6	4.6
7.00	16.3	45.0	-20.1	-18.3	14.9	1.0	11.2	27.5	18.1	21.4	4.5
7.50	16.3	44.2	-20.6	-19.3	13.8	1.0	10.2	26.5	18.1	21.3	4.5
8.00	16.3	43.3	-22.3	-19.0	12.5	1.0	10.5	26.8	18.2	21.1	4.5
8.50	16.3	42.0	-23.5	-18.0	10.9	1.0	10.6	26.9	18.4	21.2	4.6
9.00	16.3	41.2	-20.0	-16.6	9.8	1.0	10.4	26.7	18.5	21.2	4.6
9.50	16.3	41.1	-17.3	-14.5	9.5	1.0	10.7	27.0	18.5	21.2	4.6
10.00	16.2	40.6	-16.5	-13.0	9.0	1.0	10.8	27.1	18.5	21.1	4.7
10.50	16.3	40.2	-17.9	-12.3	8.5	1.0	10.8	27.0	18.5	20.9	4.8
11.00	16.3	39.4	-22.0	-12.6	7.9	0.9	10.5	26.8	18.4	20.6	4.9
11.50	16.3	38.8	-34.9	-14.4	7.6	1.0	10.4	26.8	18.3	20.5	5.0
12.00	16.3	38.2	-27.4	-18.4	7.4	1.0	10.1	26.4	18.2	20.4	5.1
12.50	16.1	37.5	-21.1	-22.6	6.9	1.0	9.8	26.0	17.9	20.0	5.2
13.00	15.9	37.1	-19.0	-19.3	6.8	1.0	10.4	26.3	17.5	19.5	5.4
13.50	15.6	37.3	-18.8	-16.5	7.1	1.0	10.9	26.5	17.6	19.7	5.7
14.00	15.3	38.0	-19.5	-15.0	8.0	1.0	11.2	26.5	17.6	19.7	6.0
14.50	15.3	38.4	-21.2	-13.6	8.4	1.0	10.1	25.4	17.5	19.6	6.2
15.00	15.4	37.1	-24.4	-12.8	7.1	0.9	10.1	25.6	17.6	19.6	6.1
15.50	15.6	36.2	-25.1	-11.7	6.2	0.9	10.4	26.0	17.5	19.6	6.3
16.00	15.6	35.3	-22.9	-10.8	5.5	0.9	9.4	25.1	17.6	19.4	6.4
16.50	15.8	34.8	-23.0	-10.8	5.1	0.9	9.7	25.5	17.4	19.3	6.6
17.00	16.0	34.2	-24.8	-11.5	4.7	0.9	8.5	24.5	17.1	19.0	6.7
17.50	16.2	33.0	-27.1	-12.2	4.1	0.9	8.4	24.5	16.8	18.9	6.9
18.00	16.2	32.2	-24.2	-13.9	3.8	0.9	7.5	23.8	16.5	18.7	7.1
18.50	16.2	31.8	-18.7	-19.1	3.8	1.0	7.0	23.2	16.0	18.3	7.1
19.00	16.1	31.8	-15.3	-24.6	3.9	1.0	8.0	24.0	15.4	17.9	7.3
19.50	15.8	31.8	-14.5	-17.7	3.9	1.0	7.7	23.5	15.6	17.9	7.3
20.00	15.7	31.7	-16.1	-16.5	3.9	1.0	8.3	24.0	15.6	17.8	7.4
20.50	15.8	31.4	-19.6	-17.9	3.8	1.0	7.6	23.4	15.6	17.8	7.4
21.00	15.9	31.1	-22.9	-19.4	3.7	1.0	7.7	23.7	15.2	17.4	7.5
21.50	15.9	30.8	-25.5	-18.5	3.6	1.0	6.5	22.4	14.8	17.3	7.6
22.00	15.9	30.7	-25.0	-15.7	3.6	1.0	6.6	22.5	14.6	17.1	7.8
22.50	15.6	30.6	-23.3	-13.2	3.6	0.9	6.8	22.4	14.0	16.7	8.1
23.00	15.4	30.8	-24.1	-12.1	3.7	0.9	6.2	21.6	13.6	16.4	8.3
23.50	15.2	30.9	-23.9	-12.1	3.8	0.9	5.7	20.9	13.3	15.9	8.6
24.00	15.0	31.0	-18.9	-12.6	3.9	0.9	4.6	19.7	13.0	15.6	8.9
24.50	15.0	30.8	-16.5	-13.6	3.9	1.0	5.2	20.2	12.2	15.1	9.3
25.00	15.0	30.7	-17.8	-17.0	4.0	1.0	4.7	19.6	11.7	14.6	9.7
25.50	14.9	30.4	-25.0	-26.4	4.1	1.0	3.8	18.7	10.8	13.6	10.2
26.00	14.5	30.7	-21.3	-16.3	4.3	1.0	2.7	17.2	9.7	12.5	10.9
26.50	13.5	31.4	-17.5	-11.5	4.9	0.9	2.9	16.4	8.9	11.8	11.7
27.00	12.2	32.6	-16.1	-9.6	6.3	0.9	4.7	16.9	8.6	11.6	12.7
27.50	10.5	34.2	-13.4	-9.0	8.8	0.9	4.2	14.7	7.9	11.0	13.9
28.00	8.9	35.7	-11.3	-9.8	12.5	1.0	5.8	14.7	7.6	10.7	15.0
28.50	7.3	37.1	-10.3	-12.0	18.0	1.0	7.4	14.7	7.2	10.3	16.1
29.00	6.0	37.7	-10.5	-17.2	23.8	1.1	7.6	13.6	6.3	9.5	16.9
29.50	4.7	38.5	-11.7	-23.2	31.7	1.1	6.6	11.3	5.2	8.5	17.8
30.00	3.3	39.9	-13.5	-17.5	44.4	1.0	6.6	9.9	3.8	7.1	18.5