

## 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:  $V_{DD} = +6V$ ,  $V_C = +5V$ ,  $I_{DD} = 71mA$  @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	16.4	25.8	15.9	18.5	1.6	0.9	26.7	21.2	8.6
0.4	16.5	25.5	18.4	19.1	1.6	0.9	27.8	21.1	4.7
0.6	16.6	25.4	19.2	19.3	1.6	0.9	27.4	21.3	4.3
0.8	16.6	25.4	19.8	19.5	1.6	0.9	27.7	21.3	4.2
1.0	16.6	25.5	20.2	19.6	1.6	0.9	27.2	21.0	4.2
1.2	16.6	25.6	20.8	20.0	1.6	0.9	28.2	21.5	4.2
1.4	16.7	25.6	21.2	20.2	1.6	0.9	28.6	21.2	4.1
1.6	16.7	25.7	21.6	20.6	1.6	0.9	28.5	21.6	4.2
1.8	16.7	25.8	22.1	21.0	1.6	0.9	27.8	21.2	4.1
2.0	16.7	25.9	22.4	21.4	1.6	0.9	29.1	21.4	4.1
2.2	16.7	26.0	22.4	21.6	1.7	0.9	29.1	21.3	4.2
2.4	16.7	26.2	22.2	21.7	1.7	0.9	29.5	21.2	4.2
2.6	16.6	26.2	21.8	21.5	1.7	0.9	29.9	21.4	4.2
2.8	16.6	26.5	21.6	21.2	1.8	0.9	30.2	20.9	4.3
3.0	16.6	26.6	21.5	21.2	1.8	0.9	30.3	21.2	4.2
3.2	16.6	26.7	21.0	20.7	1.8	0.9	31.8	20.9	4.3
3.4	16.6	26.8	20.3	20.1	1.8	0.9	32.0	21.0	4.2
3.6	16.6	27.0	19.8	19.5	1.8	0.9	34.3	20.9	4.2
3.8	16.6	27.2	19.3	18.9	1.9	0.9	31.1	20.4	4.2
4.0	16.6	27.3	19.0	18.3	1.9	0.9	31.1	20.8	4.3
4.2	16.5	27.5	18.9	17.9	1.9	0.9	37.1	20.4	4.2
4.4	16.5	27.7	18.9	17.3	2.0	0.9	34.0	20.8	4.2
4.6	16.5	27.8	18.9	16.9	2.0	0.9	32.4	20.5	4.2
4.8	16.4	28.0	18.9	16.4	2.0	0.9	31.9	20.5	4.3
5.0	16.4	28.1	18.9	15.9	2.1	0.9	30.4	20.8	4.3
5.2	16.3	28.3	18.7	15.3	2.1	0.9	30.6	20.4	4.3
5.4	16.2	28.5	18.5	14.7	2.2	0.9	31.3	20.3	4.2
5.6	16.2	28.6	18.2	14.2	2.2	0.9	31.3	20.1	4.3
5.8	16.1	28.7	17.8	13.8	2.2	0.9	30.7	20.4	4.2
6.0	16.1	28.8	17.5	13.6	2.3	0.9	30.9	19.9	4.2
6.2	16.0	28.9	17.2	13.5	2.3	0.9	29.0	20.1	4.2
6.4	16.0	29.0	16.9	13.4	2.3	0.9	28.7	20.1	4.2
6.6	15.9	29.0	16.7	13.6	2.3	0.9	29.0	20.0	4.2
6.8	15.9	29.1	16.4	13.8	2.4	0.9	29.2	20.1	4.2
7.0	15.8	29.1	16.1	14.2	2.4	1.0	28.8	19.9	4.2
7.2	15.8	29.1	15.7	14.6	2.4	1.0	28.5	20.2	4.2
7.4	15.7	29.1	15.3	15.1	2.5	1.0	28.7	19.6	4.2
7.6	15.6	29.1	14.8	15.6	2.5	1.0	28.5	19.8	4.2
7.8	15.5	29.1	14.2	16.0	2.5	1.0	28.3	19.5	4.3
8.0	15.4	29.1	13.6	16.3	2.5	1.0	27.6	19.7	4.3
8.2	15.3	29.1	13.1	16.5	2.5	1.0	28.0	19.7	4.3
8.4	15.2	29.1	12.6	16.6	2.6	1.0	28.0	19.4	4.3
8.6	15.1	29.1	12.1	16.8	2.6	1.0	27.9	19.8	4.3
8.8	15.0	29.0	11.8	16.9	2.6	1.0	27.7	19.3	4.3
9.0	14.9	29.0	11.5	16.9	2.6	1.0	28.4	19.5	4.4
9.2	14.8	29.0	11.3	17.0	2.6	1.0	27.4	19.4	4.4
9.4	14.7	28.9	11.1	17.1	2.6	1.0	27.0	18.9	4.4
9.6	14.5	28.9	11.1	17.1	2.7	1.0	27.9	19.5	4.4
9.8	14.4	29.0	11.1	17.2	2.7	1.0	27.0	18.9	4.4
10.0	14.3	28.9	11.1	17.2	2.8	1.0	29.1	19.4	4.4
11.0	13.5	29.0	11.3	14.6	3.0	1.0	28.9	19.2	4.5
12.0	12.8	29.1	11.0	11.3	3.2	1.0	28.7	19.0	4.6
13.0	11.7	29.4	10.3	9.2	3.5	1.0	-	-	-
14.0	10.1	30.4	8.6	7.9	4.2	1.0	-	-	-
15.0	8.9	31.2	6.8	7.3	4.7	1.0	-	-	-

## 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:  $V_{DD} = +6V$ ,  $V_C = +4V$ ,  $I_{DD} = 55mA$  @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	15.7	24.8	17.9	29.2	1.6	0.9	23.6	21.0	9.3
0.4	15.8	24.4	21.8	31.5	1.5	0.9	25.6	20.9	4.8
0.6	15.9	24.5	23.5	31.8	1.5	0.9	25.1	21.1	4.4
0.8	15.9	24.5	24.4	32.8	1.5	0.9	24.9	21.1	4.3
1.0	15.9	24.6	25.2	34.2	1.6	0.9	25.2	20.7	4.2
1.2	15.9	24.6	26.2	35.0	1.6	0.9	25.0	21.2	4.2
1.4	15.9	24.6	26.9	38.0	1.6	0.9	26.4	20.9	4.2
1.6	15.9	24.8	27.8	39.0	1.6	0.9	25.8	21.3	4.2
1.8	15.9	24.9	28.5	42.0	1.6	0.9	25.8	21.0	4.2
2.0	15.9	24.9	29.3	41.3	1.6	0.9	27.1	21.1	4.2
2.2	15.9	25.1	28.9	39.0	1.6	0.9	26.9	21.0	4.2
2.4	15.9	25.2	28.4	34.7	1.7	0.9	27.0	21.0	4.3
2.6	15.9	25.3	27.6	32.5	1.7	0.9	26.4	21.2	4.3
2.8	15.8	25.5	26.8	29.2	1.7	0.9	27.7	20.7	4.3
3.0	15.8	25.6	26.5	27.8	1.7	0.9	27.3	21.0	4.3
3.2	15.9	25.7	25.5	25.4	1.8	0.9	28.1	20.8	4.3
3.4	15.9	25.8	24.2	23.4	1.8	0.9	28.2	20.9	4.3
3.6	15.9	26.0	23.2	21.9	1.8	0.9	32.2	20.8	4.2
3.8	15.9	26.1	22.4	20.3	1.8	0.9	30.8	20.4	4.3
4.0	15.8	26.3	21.7	19.2	1.9	0.9	30.5	20.6	4.3
4.2	15.8	26.4	21.2	18.1	1.9	0.9	30.4	20.2	4.3
4.4	15.7	26.5	20.8	17.2	1.9	0.9	28.6	20.6	4.3
4.6	15.7	26.7	20.5	16.2	2.0	0.9	31.4	20.3	4.3
4.8	15.6	26.9	20.0	15.5	2.0	0.9	29.6	20.5	4.3
5.0	15.5	27.1	19.5	14.7	2.0	0.9	28.1	20.7	4.3
5.2	15.4	27.3	19.0	14.0	2.1	0.9	29.2	20.3	4.3
5.4	15.3	27.4	18.5	13.4	2.1	0.9	27.8	20.2	4.3
5.6	15.3	27.6	17.9	12.8	2.1	0.9	27.9	20.0	4.3
5.8	15.2	27.7	17.4	12.4	2.2	0.9	27.1	20.4	4.3
6.0	15.1	27.8	16.9	12.1	2.2	0.9	27.6	19.9	4.2
6.2	15.1	27.8	16.6	12.0	2.2	0.9	26.3	20.1	4.2
6.4	15.0	27.9	16.3	11.8	2.2	0.9	26.4	20.0	4.2
6.6	15.0	27.9	16.1	11.8	2.2	0.9	26.6	19.7	4.2
6.8	14.9	27.9	15.9	11.8	2.3	0.9	25.8	20.0	4.2
7.0	14.9	27.9	15.6	11.9	2.3	0.9	26.2	19.9	4.2
7.2	14.8	28.0	15.3	12.2	2.3	0.9	25.3	20.1	4.2
7.4	14.8	28.0	14.9	12.4	2.3	0.9	25.9	19.7	4.2
7.6	14.7	27.9	14.5	12.8	2.3	1.0	26.6	19.7	4.2
7.8	14.7	28.0	14.0	13.2	2.4	1.0	25.8	19.4	4.2
8.0	14.6	27.9	13.4	13.5	2.4	1.0	25.9	19.8	4.3
8.2	14.5	27.9	12.9	14.0	2.4	1.0	24.5	19.5	4.3
8.4	14.4	27.9	12.5	14.4	2.4	1.0	25.0	19.4	4.3
8.6	14.3	27.9	12.1	14.8	2.4	1.0	25.5	19.6	4.3
8.8	14.3	27.8	11.7	15.2	2.4	1.0	25.5	19.1	4.3
9.0	14.1	27.9	11.5	15.5	2.5	1.0	25.9	19.6	4.4
9.2	14.0	27.8	11.3	15.7	2.5	1.0	25.1	19.3	4.4
9.4	13.9	27.7	11.2	15.8	2.5	1.0	25.5	19.1	4.4
9.6	13.8	27.8	11.1	15.9	2.5	1.0	26.3	19.4	4.4
9.8	13.7	27.7	11.1	16.0	2.5	1.0	24.7	18.9	4.4
10.0	13.6	27.8	11.1	16.0	2.6	1.0	25.4	19.2	4.4
11.0	12.9	27.7	11.3	14.6	2.8	1.0	25.5	19.0	4.5
12.0	12.2	28.0	11.2	11.5	3.0	1.0	25.9	18.7	4.6
13.0	11.2	28.4	10.7	8.9	3.3	0.9	-	-	-
14.0	9.7	29.3	8.8	7.4	3.8	0.9	-	-	-
15.0	8.4	30.3	6.8	6.9	4.3	1.0	-	-	-

## 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:  $V_{DD} = +6V$ ,  $V_C = +3V$ ,  $I_{DD} = 40mA$  @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	13.9	23.2	20.5	17.7	1.6	0.9	17.4	21.4	10.5
0.4	14.1	22.9	26.6	17.6	1.6	0.9	18.8	22.0	5.1
0.6	14.1	22.9	28.4	17.6	1.5	0.9	18.8	21.9	4.6
0.8	14.1	22.9	28.9	17.5	1.6	0.9	19.0	21.8	4.5
1.0	14.1	23.0	28.6	17.4	1.6	0.9	18.6	21.7	4.4
1.2	14.1	23.0	28.0	17.3	1.6	0.9	18.9	21.8	4.4
1.4	14.1	23.1	27.6	17.1	1.6	0.9	19.3	21.8	4.3
1.6	14.1	23.2	26.9	17.0	1.6	0.9	19.5	22.0	4.4
1.8	14.1	23.3	26.6	16.9	1.6	0.9	19.2	22.0	4.4
2.0	14.1	23.4	26.2	16.8	1.6	0.9	19.3	21.9	4.4
2.2	14.1	23.6	26.6	16.8	1.7	0.9	19.9	21.6	4.4
2.4	14.1	23.7	27.2	16.8	1.7	0.9	19.2	22.0	4.4
2.6	14.0	23.8	28.5	17.0	1.7	0.9	19.9	21.9	4.4
2.8	14.0	23.9	29.9	17.2	1.8	0.9	20.3	21.7	4.5
3.0	14.0	24.0	30.3	17.1	1.8	0.9	19.8	21.8	4.5
3.2	14.0	24.1	30.8	16.8	1.8	0.9	20.6	21.6	4.5
3.4	14.0	24.2	31.0	16.6	1.8	0.9	20.2	22.0	4.4
3.6	14.0	24.4	29.8	16.1	1.8	0.9	20.9	21.6	4.4
3.8	14.0	24.5	27.8	15.5	1.8	0.9	20.8	21.3	4.5
4.0	13.9	24.6	26.0	14.8	1.9	0.9	20.6	21.3	4.5
4.2	13.9	24.8	24.2	14.1	1.9	0.9	20.7	21.0	4.4
4.4	13.8	25.0	22.7	13.4	1.9	0.9	20.8	21.6	4.4
4.6	13.7	25.1	21.4	12.6	2.0	0.9	22.0	21.1	4.4
4.8	13.6	25.3	20.1	12.0	2.0	0.9	20.9	21.4	4.4
5.0	13.5	25.5	19.1	11.3	2.0	0.9	20.7	21.6	4.5
5.2	13.4	25.6	18.1	10.8	2.1	0.9	21.2	21.2	4.5
5.4	13.3	25.7	17.3	10.3	2.1	0.9	20.4	21.0	4.4
5.6	13.1	25.9	16.5	9.9	2.1	0.9	21.4	21.0	4.4
5.8	13.0	26.1	15.9	9.6	2.2	0.9	20.6	21.2	4.5
6.0	12.9	26.2	15.5	9.4	2.2	0.9	22.4	20.7	4.4
6.2	12.9	26.2	15.1	9.2	2.2	0.9	21.0	20.9	4.4
6.4	12.8	26.3	14.9	9.1	2.2	0.9	20.7	20.8	4.3
6.6	12.8	26.2	14.8	9.1	2.2	0.9	21.9	20.8	4.4
6.8	12.7	26.3	14.7	9.1	2.3	0.9	21.3	21.0	4.3
7.0	12.7	26.3	14.6	9.2	2.3	0.9	21.7	21.1	4.4
7.2	12.7	26.2	14.5	9.4	2.3	0.9	21.6	21.0	4.4
7.4	12.6	26.2	14.3	9.5	2.3	0.9	21.9	20.7	4.3
7.6	12.6	26.2	14.1	9.8	2.3	0.9	23.5	20.7	4.4
7.8	12.6	26.2	13.8	10.1	2.3	0.9	23.0	20.5	4.4
8.0	12.5	26.2	13.3	10.4	2.4	0.9	22.6	21.0	4.4
8.2	12.4	26.2	12.9	10.7	2.4	0.9	22.0	20.6	4.4
8.4	12.3	26.2	12.6	11.1	2.4	0.9	22.2	20.8	4.4
8.6	12.3	26.2	12.2	11.4	2.4	1.0	21.6	20.6	4.5
8.8	12.3	26.1	11.8	11.6	2.4	1.0	23.1	20.4	4.5
9.0	12.2	26.1	11.6	11.9	2.4	1.0	24.4	20.4	4.5
9.2	12.1	26.1	11.5	12.1	2.4	1.0	23.2	20.4	4.5
9.4	12.0	26.0	11.3	12.4	2.5	1.0	23.3	20.3	4.5
9.6	11.9	26.0	11.2	12.6	2.5	1.0	22.7	20.1	4.5
9.8	11.8	25.9	11.3	12.8	2.5	1.0	21.8	20.2	4.5
10.0	11.7	26.0	11.2	13.0	2.6	1.0	22.4	19.7	4.5
11.0	11.2	25.9	11.5	13.1	2.7	1.0	21.2	19.3	4.7
12.0	10.6	26.2	11.8	11.1	2.9	1.0	21.2	19.2	4.8
13.0	9.6	26.7	11.5	8.4	3.2	0.9	-	-	-
14.0	8.1	27.6	9.4	6.8	3.6	0.9	-	-	-
15.0	6.7	28.6	7.0	6.1	4.1	0.9	-	-	-

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**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS:  $V_{DD} = +6V$ ,  $V_C = +2V$ ,  $I_{DD} = 28mA$  @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	8.5	21.5	17.0	6.2	1.8	0.7	10.1	21.6	13.1
0.4	9.0	21.1	15.2	6.4	1.7	0.7	11.1	22.2	6.0
0.6	9.1	21.0	14.6	6.7	1.7	0.7	11.3	22.1	5.3
0.8	9.2	21.0	14.2	6.8	1.7	0.7	11.3	22.0	5.1
1.0	9.3	20.9	14.2	7.0	1.7	0.7	11.2	21.7	5.1
1.2	9.3	21.0	14.2	7.2	1.7	0.7	11.3	21.8	5.1
1.4	9.3	21.0	14.2	7.4	1.8	0.7	11.7	21.9	5.0
1.6	9.4	21.0	14.3	7.6	1.8	0.7	11.8	22.1	5.0
1.8	9.4	21.1	14.3	7.7	1.8	0.8	11.5	22.3	5.0
2.0	9.4	21.2	14.3	7.8	1.8	0.8	11.5	22.1	5.0
2.2	9.4	21.2	14.6	7.8	1.8	0.8	12.1	21.6	5.1
2.4	9.4	21.3	14.8	7.9	1.8	0.8	11.5	22.2	5.1
2.6	9.4	21.4	15.2	8.0	1.9	0.8	11.9	22.0	5.1
2.8	9.3	21.5	15.7	8.0	1.9	0.8	12.1	22.0	5.1
3.0	9.3	21.6	15.8	7.9	1.9	0.8	11.9	22.0	5.1
3.2	9.3	21.6	15.9	7.8	1.9	0.8	12.5	22.0	5.1
3.4	9.3	21.7	16.3	7.8	1.9	0.8	12.0	22.4	5.1
3.6	9.3	21.8	16.5	7.8	2.0	0.8	12.5	21.8	5.1
3.8	9.3	21.9	16.7	7.7	2.0	0.8	12.3	21.6	5.1
4.0	9.2	22.0	16.8	7.6	2.0	0.8	12.2	21.5	5.1
4.2	9.1	22.2	16.7	7.5	2.1	0.8	12.0	21.3	5.1
4.4	9.0	22.3	16.4	7.3	2.1	0.8	12.1	21.9	5.0
4.6	8.8	22.5	16.0	7.1	2.1	0.8	12.8	21.5	5.0
4.8	8.6	22.7	15.3	6.9	2.2	0.8	12.0	21.8	5.1
5.0	8.3	23.0	14.6	6.8	2.3	0.8	11.8	22.1	5.1
5.2	8.0	23.4	13.9	6.8	2.5	0.8	11.9	21.5	5.1
5.4	7.8	23.5	13.4	6.7	2.6	0.8	11.5	21.4	5.1
5.6	7.8	23.4	13.0	6.3	2.5	0.8	12.1	21.3	5.1
5.8	7.8	23.4	12.7	5.9	2.4	0.7	11.6	21.5	5.1
6.0	7.7	23.5	12.4	5.6	2.4	0.7	12.4	21.0	5.1
6.2	7.6	23.6	12.3	5.4	2.4	0.7	11.7	21.2	5.0
6.4	7.5	23.7	12.2	5.3	2.4	0.7	11.5	21.2	5.0
6.6	7.5	23.7	12.2	5.3	2.5	0.7	11.8	21.1	5.0
6.8	7.4	23.7	12.2	5.3	2.5	0.7	11.5	21.5	5.0
7.0	7.3	23.7	12.3	5.3	2.5	0.7	11.7	21.6	5.0
7.2	7.3	23.6	12.4	5.4	2.5	0.7	11.6	21.5	5.0
7.4	7.3	23.6	12.5	5.6	2.6	0.7	11.5	21.2	5.0
7.6	7.3	23.5	12.5	5.8	2.6	0.7	12.1	21.2	5.0
7.8	7.2	23.4	12.5	5.9	2.6	0.7	11.9	21.2	5.1
8.0	7.2	23.4	12.6	6.1	2.6	0.8	11.7	21.5	5.1
8.2	7.2	23.3	12.6	6.3	2.6	0.8	11.4	21.5	5.1
8.4	7.2	23.2	12.4	6.6	2.6	0.8	11.6	21.4	5.1
8.6	7.2	23.2	12.2	6.8	2.7	0.8	11.5	21.4	5.1
8.8	7.1	23.1	11.9	6.8	2.7	0.8	11.9	21.2	5.1
9.0	7.1	23.1	11.6	7.0	2.7	0.8	12.3	21.0	5.2
9.2	7.0	23.0	11.4	7.0	2.7	0.8	11.8	21.3	5.1
9.4	6.9	23.0	11.2	7.1	2.7	0.8	12.2	20.9	5.2
9.6	6.8	23.0	11.0	7.1	2.7	0.8	12.1	20.8	5.3
9.8	6.8	22.9	10.9	7.2	2.7	0.9	12.1	21.0	5.2
10.0	6.7	22.9	10.9	7.3	2.7	0.9	12.6	20.3	5.2
11.0	6.4	22.7	11.6	8.1	3.0	0.9	11.8	21.2	5.4
12.0	6.0	22.7	12.8	8.1	3.1	0.9	12.0	20.9	5.5
13.0	5.2	22.9	13.7	6.5	3.2	0.8	-	-	-
14.0	3.6	23.9	11.7	4.9	3.6	0.7	-	-	-
15.0	2.2	24.8	8.4	4.1	3.9	0.7	-	-	-

## Typical Performance Data

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

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS:  $V_{DD} = +6V$ ,  $V_C = +1V$ ,  $I_{DD} = 12mA$  @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	8.3	19.2	9.8	6.4	1.5	0.7	12.4	21.1	16.6
0.4	8.3	19.2	10.0	6.4	1.5	0.7	12.8	21.9	6.7
0.6	8.3	19.2	10.1	6.5	1.5	0.7	12.7	21.9	5.5
0.8	8.2	19.3	10.1	6.5	1.6	0.7	12.7	21.8	5.4
1.0	8.2	19.4	10.1	6.6	1.6	0.7	12.6	21.3	5.4
1.2	8.1	19.5	10.0	6.6	1.6	0.7	12.8	21.7	5.3
1.4	8.0	19.6	10.1	6.6	1.6	0.7	12.9	21.6	5.3
1.6	8.0	19.7	10.1	6.6	1.7	0.7	13.0	22.0	5.4
1.8	7.9	19.8	10.2	6.7	1.7	0.7	12.8	22.2	5.3
2.0	7.8	19.9	10.2	6.7	1.7	0.7	13.0	21.9	5.4
2.2	7.7	20.0	10.4	6.7	1.8	0.7	13.5	21.4	5.3
2.4	7.7	20.1	10.6	6.8	1.8	0.7	13.2	22.0	5.4
2.6	7.6	20.1	10.9	6.9	1.8	0.7	13.5	21.8	5.4
2.8	7.6	20.2	11.2	7.0	1.9	0.8	13.6	21.8	5.4
3.0	7.5	20.3	11.4	7.0	1.9	0.8	13.6	21.9	5.4
3.2	7.5	20.3	11.6	7.0	1.9	0.8	14.1	22.0	5.4
3.4	7.5	20.4	11.8	7.1	1.9	0.8	13.9	22.3	5.4
3.6	7.4	20.4	12.0	7.2	2.0	0.8	14.4	21.9	5.4
3.8	7.4	20.5	12.2	7.2	2.0	0.8	14.3	21.7	5.4
4.0	7.2	20.7	12.3	7.1	2.1	0.8	14.2	21.5	5.3
4.2	7.1	20.8	12.2	7.0	2.1	0.8	14.2	21.4	5.4
4.4	6.9	21.0	12.0	6.8	2.2	0.8	14.6	21.9	5.3
4.6	6.6	21.3	11.8	6.6	2.3	0.8	15.0	21.6	5.3
4.8	6.4	21.5	11.5	6.3	2.3	0.8	14.9	21.8	5.4
5.0	6.1	21.8	11.2	6.0	2.4	0.7	14.5	22.2	5.4
5.2	5.9	22.0	10.9	5.8	2.5	0.7	15.3	21.4	5.3
5.4	5.6	22.3	10.7	5.5	2.6	0.7	15.4	21.2	5.4
5.6	5.4	22.4	10.4	5.3	2.6	0.7	16.0	21.1	5.4
5.8	5.2	22.6	10.3	5.2	2.7	0.7	16.3	21.4	5.5
6.0	5.0	22.8	10.2	5.1	2.8	0.7	16.8	21.1	5.5
6.2	4.9	23.0	10.2	5.0	2.9	0.7	17.0	21.2	5.4
6.4	4.7	23.1	10.3	5.0	3.0	0.7	17.3	21.1	5.4
6.6	4.6	23.2	10.4	5.0	3.1	0.7	17.7	20.9	5.6
6.8	4.5	23.3	10.6	5.0	3.2	0.7	18.4	21.3	5.4
7.0	4.4	23.4	10.8	5.1	3.3	0.7	19.4	21.4	5.6
7.2	4.3	23.5	11.1	5.3	3.4	0.7	20.6	21.4	5.6
7.4	4.2	23.5	11.3	5.4	3.5	0.7	20.8	21.0	5.6
7.6	4.1	23.6	11.4	5.6	3.6	0.7	19.8	21.0	5.5
7.8	4.0	23.7	11.5	5.7	3.7	0.8	21.3	21.0	5.7
8.0	3.9	23.8	11.5	5.9	3.8	0.8	22.2	21.2	5.7
8.2	3.8	23.9	11.5	6.0	4.0	0.8	20.4	21.5	5.8
8.4	3.7	23.9	11.3	6.1	4.0	0.8	20.7	21.2	5.8
8.6	3.6	24.0	11.2	6.2	4.2	0.8	19.8	21.3	5.7
8.8	3.5	24.0	11.1	6.1	4.2	0.8	21.0	21.2	5.8
9.0	3.4	24.1	11.0	6.2	4.3	0.8	21.4	21.0	5.9
9.2	3.4	24.1	10.9	6.2	4.3	0.8	18.5	21.6	5.9
9.4	3.2	24.1	11.0	6.3	4.4	0.8	18.5	20.9	6.0
9.6	3.2	24.1	11.0	6.4	4.5	0.8	18.2	21.0	6.1
9.8	3.1	24.1	11.1	6.6	4.6	0.8	17.5	21.1	6.0
10.0	3.0	24.2	11.2	6.7	4.8	0.8	18.5	20.5	6.1
11.0	2.3	24.4	12.3	7.8	5.6	0.9	14.0	21.5	6.4
12.0	1.6	24.5	13.2	7.4	6.1	0.9	14.6	20.8	6.7
13.0	0.6	24.5	14.1	6.2	6.4	0.8	-	-	-
14.0	-1.3	25.5	11.7	5.2	8.0	0.8	-	-	-
15.0	-3.1	26.1	8.7	4.3	8.8	0.7	-	-	-

## Typical Performance Data

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

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS:  $V_{DD} = +6V$ ,  $V_C = +0.8V$ ,  $I_{DD} = 4mA$  @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	6.3	18.6	8.0	5.3	1.6	0.7	10.4	21.0	16.5
0.4	6.3	18.6	8.2	5.3	1.6	0.7	10.5	21.9	6.8
0.6	6.3	18.6	8.2	5.3	1.6	0.7	10.5	21.9	5.8
0.8	6.2	18.7	8.2	5.4	1.6	0.7	10.6	21.7	5.6
1.0	6.1	18.8	8.3	5.4	1.7	0.7	10.6	21.3	5.6
1.2	6.0	18.9	8.3	5.4	1.7	0.7	10.7	21.6	5.6
1.4	5.9	19.1	8.4	5.5	1.7	0.7	10.8	21.7	5.6
1.6	5.8	19.2	8.4	5.5	1.8	0.7	10.8	22.0	5.6
1.8	5.6	19.3	8.5	5.5	1.8	0.7	11.0	22.3	5.6
2.0	5.5	19.4	8.6	5.5	1.9	0.7	11.2	22.2	5.7
2.2	5.4	19.5	8.8	5.6	1.9	0.7	11.2	21.3	5.7
2.4	5.3	19.6	9.0	5.6	2.0	0.7	11.1	22.2	5.8
2.6	5.2	19.7	9.3	5.7	2.0	0.7	11.1	21.8	5.8
2.8	5.1	19.8	9.6	5.7	2.1	0.7	11.0	21.9	5.8
3.0	5.0	19.9	9.8	5.7	2.1	0.7	11.0	21.9	5.8
3.2	4.9	19.9	10.0	5.8	2.2	0.7	11.0	22.0	5.8
3.4	4.8	20.0	10.2	5.8	2.2	0.7	10.8	22.5	5.8
3.6	4.7	20.1	10.4	5.8	2.3	0.7	9.6	21.9	5.8
3.8	4.6	20.3	10.5	5.8	2.4	0.7	10.4	21.8	5.9
4.0	4.4	20.4	10.6	5.8	2.5	0.7	10.4	21.4	5.9
4.2	4.1	20.6	10.5	5.7	2.6	0.7	10.2	21.3	5.9
4.4	3.9	20.9	10.4	5.5	2.7	0.7	10.1	21.9	5.9
4.6	3.5	21.2	10.3	5.3	2.8	0.7	10.2	21.5	5.9
4.8	3.2	21.5	10.1	5.2	2.9	0.7	9.7	21.9	6.0
5.0	2.8	21.8	9.9	4.9	3.1	0.7	9.8	22.3	6.1
5.2	2.5	22.2	9.8	4.8	3.3	0.7	9.6	21.6	6.2
5.4	2.2	22.4	9.6	4.6	3.4	0.7	9.5	21.2	6.2
5.6	1.9	22.7	9.5	4.4	3.6	0.7	9.5	21.0	6.3
5.8	1.6	22.9	9.5	4.3	3.7	0.7	9.3	21.2	6.4
6.0	1.4	23.2	9.5	4.2	3.9	0.7	9.4	21.0	6.5
6.2	1.1	23.4	9.6	4.2	4.1	0.7	9.2	21.1	6.5
6.4	0.9	23.5	9.7	4.2	4.2	0.7	9.1	20.9	6.5
6.6	0.8	23.7	9.9	4.2	4.4	0.7	9.0	20.7	6.7
6.8	0.6	23.8	10.2	4.3	4.6	0.7	8.8	21.2	6.6
7.0	0.5	23.9	10.4	4.4	4.9	0.7	8.9	21.2	6.8
7.2	0.3	24.1	10.7	4.5	5.1	0.7	8.6	21.4	6.9
7.4	0.2	24.1	10.9	4.7	5.4	0.7	8.5	20.8	6.8
7.6	0.1	24.3	11.0	4.8	5.6	0.7	8.9	20.9	6.8
7.8	-0.1	24.4	11.1	5.0	5.9	0.7	8.6	20.9	7.1
8.0	-0.2	24.5	11.2	5.1	6.1	0.7	8.5	21.0	7.1
8.2	-0.4	24.6	11.1	5.2	6.4	0.7	8.2	21.3	7.2
8.4	-0.5	24.7	11.1	5.3	6.6	0.7	8.3	21.0	7.4
8.6	-0.7	24.8	11.0	5.4	6.9	0.8	8.2	21.3	7.2
8.8	-0.8	24.8	10.9	5.4	7.0	0.8	8.3	21.2	7.3
9.0	-0.9	24.9	10.8	5.4	7.1	0.8	8.5	21.0	7.5
9.2	-1.0	24.9	10.8	5.5	7.3	0.8	8.1	21.6	7.6
9.4	-1.2	24.9	10.8	5.6	7.5	0.8	8.2	20.9	7.6
9.6	-1.3	25.0	10.9	5.7	7.7	0.8	8.1	20.9	7.7
9.8	-1.4	25.0	11.0	5.8	8.0	0.8	8.1	21.2	7.8
10.0	-1.5	25.0	11.2	6.0	8.3	0.8	8.3	20.6	7.8
11.0	-2.3	25.2	12.3	7.0	10.1	0.8	7.7	21.1	8.3
12.0	-3.2	25.1	13.3	6.8	10.9	0.8	8.0	20.1	8.8
13.0	-4.3	25.0	13.9	5.7	11.5	0.8	-	-	-
14.0	-6.4	25.8	11.3	4.9	14.4	0.7	-	-	-
15.0	-8.2	26.3	8.6	4.0	15.6	0.7	-	-	-



## Typical Performance Data

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

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS:  $V_{DD} = +6V$ ,  $V_C = +5V$ ,  $I_{DD} = 69mA$  @ Temperature =  $-45^{\circ}C$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	15.8	27.1	15.4	18.8	1.9	0.9	28.3	21.2	11.5
0.4	16.7	26.0	18.5	24.4	1.6	0.9	28.9	20.9	4.1
0.6	16.9	25.7	19.3	26.1	1.6	0.9	28.2	21.3	3.6
0.8	17.0	25.7	19.7	24.1	1.6	0.9	28.6	21.3	3.5
1.0	17.0	25.7	19.6	22.2	1.6	0.9	29.2	20.9	3.5
1.2	17.0	25.7	19.7	20.6	1.6	0.9	29.8	21.5	3.4
1.4	17.1	25.8	19.7	20.1	1.6	0.9	30.5	21.1	3.4
1.6	17.1	25.8	19.8	19.3	1.6	0.9	29.7	21.6	3.4
1.8	17.1	26.0	20.0	19.3	1.6	0.9	28.8	21.2	3.4
2.0	17.1	26.1	20.2	19.1	1.6	0.9	30.2	21.4	3.4
2.2	17.1	26.2	20.0	19.1	1.6	0.9	31.5	21.2	3.4
2.4	17.1	26.3	19.7	18.9	1.6	0.9	30.1	21.2	3.4
2.6	17.1	26.5	19.3	18.6	1.7	0.9	32.0	21.4	3.4
2.8	17.0	26.7	19.0	18.4	1.7	0.9	30.5	20.9	3.5
3.0	17.0	26.8	19.2	18.5	1.7	0.9	33.4	21.2	3.4
3.2	17.0	26.9	19.1	18.5	1.8	0.9	31.1	20.9	3.5
3.4	17.1	27.0	18.5	18.1	1.8	0.9	37.2	20.9	3.4
3.6	17.1	27.2	18.2	17.9	1.8	0.9	33.5	20.8	3.4
3.8	17.1	27.3	18.0	17.5	1.8	0.9	31.6	20.3	3.4
4.0	17.1	27.5	17.8	17.2	1.8	0.9	31.4	20.7	3.4
4.2	17.0	27.6	17.7	16.8	1.9	0.9	31.9	20.2	3.4
4.4	17.0	27.8	17.7	16.4	1.9	0.9	30.9	20.6	3.4
4.6	17.0	28.0	17.8	16.0	1.9	0.9	30.8	20.3	3.4
4.8	16.9	28.1	18.0	15.5	2.0	0.9	30.3	20.4	3.5
5.0	16.8	28.4	18.2	15.0	2.0	0.9	29.7	20.7	3.5
5.2	16.7	28.7	18.4	14.5	2.1	0.9	29.9	20.3	3.5
5.4	16.6	28.8	18.0	14.2	2.2	0.9	28.5	20.3	3.4
5.6	16.6	28.8	17.7	14.0	2.1	0.9	29.2	20.2	3.4
5.8	16.6	28.9	17.8	13.7	2.2	0.9	28.7	20.5	3.4
6.0	16.6	28.9	18.0	13.3	2.2	0.9	28.8	20.0	3.4
6.2	16.6	29.0	17.9	13.1	2.2	0.9	27.6	20.2	3.4
6.4	16.6	29.0	17.7	12.9	2.2	0.9	27.4	20.2	3.3
6.6	16.6	29.1	17.5	13.0	2.2	0.9	26.8	20.2	3.3
6.8	16.5	29.1	17.1	13.0	2.2	0.9	27.0	20.3	3.3
7.0	16.5	29.1	16.6	13.2	2.2	0.9	27.3	20.2	3.3
7.2	16.4	29.2	16.1	13.6	2.3	0.9	27.0	20.4	3.3
7.4	16.4	29.1	15.6	14.0	2.3	1.0	26.9	19.9	3.4
7.6	16.3	29.1	14.9	14.4	2.3	1.0	27.4	20.0	3.4
7.8	16.3	29.1	14.3	14.9	2.3	1.0	26.3	19.7	3.4
8.0	16.2	29.1	13.7	15.3	2.3	1.0	27.5	20.1	3.4
8.2	16.1	29.1	13.2	15.6	2.3	1.0	26.0	19.7	3.4
8.4	16.0	29.1	12.6	15.8	2.3	1.0	26.9	19.7	3.5
8.6	15.9	29.0	12.1	15.9	2.3	1.0	26.9	20.0	3.5
8.8	15.9	29.0	11.6	15.9	2.3	1.0	27.5	19.4	3.5
9.0	15.7	29.0	11.3	15.8	2.3	1.0	27.3	19.8	3.5
9.2	15.6	28.9	11.0	15.5	2.3	1.0	26.5	19.4	3.5
9.4	15.5	28.9	10.8	15.4	2.3	1.0	26.7	19.3	3.5
9.6	15.4	28.9	10.7	15.2	2.4	1.0	26.3	19.5	3.5
9.8	15.2	28.8	10.7	15.0	2.4	1.0	27.3	19.0	3.6
10.0	15.1	28.8	10.7	15.0	2.4	1.0	26.9	19.3	3.5
11.0	14.4	28.6	11.0	13.6	2.5	1.0	28.2	19.1	3.6
12.0	13.7	28.7	10.8	10.5	2.7	1.0	29.2	19.0	3.7
13.0	12.7	29.0	9.9	8.1	2.8	0.9	-	-	-
14.0	11.2	29.7	8.4	6.8	3.2	0.9	-	-	-
15.0	10.1	30.4	6.8	6.8	3.5	1.0	-	-	-

## 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:  $V_{DD} = +6V$ ,  $V_C = +4V$ ,  $I_{DD} = 50mA$  @ Temperature =  $-45^{\circ}C$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	15.0	25.3	17.5	22.9	1.8	0.9	25.0	21.3	10.1
0.4	15.3	24.9	22.1	23.4	1.7	0.9	25.3	21.2	4.2
0.6	15.5	24.6	24.5	25.5	1.6	0.9	25.7	21.4	3.7
0.8	15.6	24.6	26.5	26.1	1.6	0.9	26.0	21.4	3.6
1.0	15.7	24.5	27.0	27.8	1.6	0.9	25.5	21.1	3.6
1.2	15.7	24.6	27.4	28.6	1.6	0.9	25.9	21.6	3.5
1.4	15.8	24.6	27.5	30.0	1.6	0.9	26.5	21.3	3.4
1.6	15.8	24.7	27.7	32.6	1.6	0.9	26.8	21.9	3.4
1.8	15.8	24.8	28.1	36.1	1.6	0.9	26.4	21.5	3.5
2.0	15.8	24.9	28.5	49.7	1.6	0.9	26.1	21.8	3.4
2.2	15.8	25.0	27.9	40.6	1.6	0.9	27.4	21.4	3.4
2.4	15.9	25.1	27.2	32.6	1.7	0.9	26.3	21.5	3.5
2.6	15.8	25.2	26.1	29.5	1.7	0.9	27.1	21.6	3.5
2.8	15.8	25.3	25.2	26.4	1.7	0.9	28.0	21.1	3.5
3.0	15.8	25.5	25.4	25.2	1.8	0.9	26.1	21.5	3.5
3.2	15.8	25.6	25.1	23.3	1.8	0.9	28.2	21.1	3.5
3.4	15.8	25.7	23.9	21.8	1.8	0.9	26.5	21.4	3.5
3.6	15.9	25.8	23.2	20.7	1.8	0.9	28.1	21.1	3.5
3.8	15.8	26.0	22.5	19.3	1.8	0.9	26.5	20.6	3.5
4.0	15.8	26.2	21.9	18.4	1.8	0.9	27.3	21.0	3.5
4.2	15.8	26.3	21.6	17.2	1.9	0.9	26.9	20.5	3.5
4.4	15.7	26.5	21.2	16.3	1.9	0.9	25.8	21.1	3.5
4.6	15.6	26.7	20.9	15.3	1.9	0.9	28.6	20.6	3.5
4.8	15.5	26.8	20.6	14.5	2.0	0.9	26.6	20.9	3.5
5.0	15.4	27.1	20.1	13.7	2.0	0.9	25.5	21.2	3.5
5.2	15.3	27.3	19.4	13.1	2.1	0.9	25.2	20.8	3.6
5.4	15.2	27.5	18.6	12.6	2.1	0.9	24.6	20.6	3.5
5.6	15.2	27.5	18.0	12.0	2.1	0.9	25.1	20.5	3.5
5.8	15.2	27.5	17.7	11.5	2.1	0.9	24.1	20.9	3.4
6.0	15.2	27.6	17.5	11.1	2.1	0.9	25.1	20.3	3.4
6.2	15.1	27.7	17.3	10.9	2.1	0.9	24.0	20.7	3.4
6.4	15.1	27.7	17.0	10.6	2.1	0.9	23.7	20.5	3.4
6.6	15.1	27.7	16.9	10.6	2.2	0.9	23.7	20.4	3.4
6.8	15.0	27.8	16.6	10.7	2.2	0.9	23.6	20.6	3.4
7.0	15.0	27.8	16.2	10.8	2.2	0.9	23.3	20.7	3.4
7.2	15.0	27.8	15.8	11.1	2.2	0.9	22.7	20.9	3.4
7.4	14.9	27.7	15.4	11.4	2.2	0.9	22.9	20.4	3.4
7.6	14.9	27.7	14.9	11.8	2.2	0.9	24.2	20.3	3.4
7.8	14.9	27.7	14.4	12.2	2.2	0.9	23.5	20.1	3.4
8.0	14.8	27.6	13.9	12.6	2.2	1.0	23.6	20.7	3.5
8.2	14.8	27.6	13.4	12.9	2.2	1.0	22.6	20.2	3.5
8.4	14.7	27.5	12.9	13.2	2.2	1.0	22.7	20.3	3.5
8.6	14.6	27.5	12.4	13.5	2.2	1.0	22.8	20.4	3.5
8.8	14.6	27.4	11.9	13.6	2.2	1.0	23.2	19.9	3.5
9.0	14.5	27.4	11.5	13.8	2.2	1.0	24.3	20.3	3.5
9.2	14.4	27.4	11.2	13.7	2.2	1.0	22.9	20.0	3.5
9.4	14.3	27.4	11.0	13.7	2.2	1.0	22.8	20.1	3.5
9.6	14.2	27.3	10.9	13.6	2.2	1.0	22.9	19.9	3.5
9.8	14.1	27.3	10.8	13.6	2.3	1.0	22.7	19.8	3.5
10.0	13.9	27.2	10.9	13.7	2.3	1.0	23.7	19.5	3.5
11.0	13.4	27.1	11.3	13.4	2.4	1.0	23.1	19.2	3.6
12.0	12.8	27.1	11.3	10.8	2.5	1.0	24.4	19.0	3.6
13.0	11.8	27.5	10.6	8.1	2.6	0.9	-	-	-
14.0	10.3	28.4	8.9	6.7	3.0	0.9	-	-	-
15.0	9.2	29.2	7.0	6.5	3.4	1.0	-	-	-



## 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:  $V_{DD} = +6V$ ,  $V_C = +3V$ ,  $I_{DD} = 38mA$  @ Temperature =  $-45^{\circ}C$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	12.4	23.6	23.3	11.0	1.8	0.9	13.6	21.5	10.5
0.4	12.8	23.1	29.0	11.4	1.7	0.8	14.0	22.1	4.6
0.6	13.0	22.9	25.9	12.0	1.7	0.8	14.9	22.0	4.0
0.8	13.1	22.8	24.2	12.3	1.6	0.8	14.8	21.9	4.0
1.0	13.2	22.8	23.9	12.7	1.6	0.8	14.9	21.8	3.9
1.2	13.3	22.8	23.7	13.2	1.6	0.8	15.1	21.9	3.8
1.4	13.3	22.8	23.5	13.4	1.6	0.8	15.7	21.9	3.8
1.6	13.3	22.9	23.7	13.9	1.7	0.9	16.0	22.3	3.8
1.8	13.3	23.0	23.7	14.0	1.7	0.9	15.7	22.3	3.8
2.0	13.4	23.1	23.7	14.2	1.7	0.9	15.9	22.2	3.8
2.2	13.4	23.1	24.3	14.2	1.7	0.9	16.1	21.7	3.8
2.4	13.4	23.2	25.1	14.3	1.7	0.9	15.8	22.2	3.7
2.6	13.4	23.3	26.4	14.3	1.7	0.9	16.2	22.1	3.8
2.8	13.3	23.5	27.5	14.2	1.8	0.9	16.6	21.7	3.9
3.0	13.3	23.6	27.5	14.0	1.8	0.9	16.2	22.1	3.8
3.2	13.3	23.7	28.0	13.6	1.8	0.9	16.9	21.6	3.9
3.4	13.4	23.8	29.4	13.5	1.8	0.9	16.1	22.2	3.8
3.6	13.4	23.9	29.5	13.2	1.8	0.9	16.8	21.6	3.8
3.8	13.3	24.0	28.6	12.8	1.8	0.9	16.4	21.1	3.8
4.0	13.3	24.2	27.3	12.5	1.9	0.9	16.6	21.3	3.8
4.2	13.2	24.3	25.8	12.0	1.9	0.9	16.3	20.9	3.8
4.4	13.1	24.5	24.0	11.5	1.9	0.9	16.4	21.6	3.8
4.6	13.0	24.7	22.5	11.0	2.0	0.9	17.4	20.9	3.8
4.8	12.9	24.9	20.9	10.5	2.0	0.9	16.4	21.4	3.8
5.0	12.7	25.2	19.4	10.0	2.1	0.9	15.9	21.7	3.8
5.2	12.5	25.5	18.1	9.6	2.2	0.9	16.0	21.2	3.8
5.4	12.3	25.6	17.0	9.4	2.2	0.9	15.3	21.0	3.7
5.6	12.3	25.6	16.2	9.0	2.2	0.9	16.5	20.8	3.8
5.8	12.3	25.6	15.9	8.5	2.2	0.8	15.9	21.3	3.8
6.0	12.3	25.7	15.5	8.1	2.2	0.8	17.4	20.5	3.7
6.2	12.2	25.7	15.3	7.9	2.2	0.8	16.3	21.0	3.7
6.4	12.2	25.8	15.1	7.7	2.2	0.8	16.0	20.8	3.7
6.6	12.2	25.8	15.0	7.7	2.2	0.8	16.5	20.7	3.7
6.8	12.1	25.8	14.9	7.7	2.2	0.8	16.1	21.0	3.7
7.0	12.1	25.8	14.7	7.7	2.2	0.8	16.3	21.2	3.7
7.2	12.1	25.7	14.6	7.9	2.2	0.8	16.2	21.2	3.7
7.4	12.1	25.6	14.5	8.1	2.2	0.8	16.3	20.8	3.7
7.6	12.0	25.5	14.3	8.4	2.2	0.9	17.6	20.7	3.7
7.8	12.0	25.5	14.0	8.7	2.2	0.9	17.2	20.5	3.7
8.0	12.0	25.4	13.8	9.0	2.2	0.9	16.8	21.3	3.7
8.2	12.0	25.4	13.5	9.3	2.2	0.9	16.4	20.7	3.7
8.4	12.0	25.2	13.1	9.6	2.2	0.9	16.8	21.0	3.8
8.6	11.9	25.2	12.7	9.9	2.2	0.9	16.5	20.9	3.7
8.8	11.9	25.2	12.2	10.0	2.2	0.9	17.6	20.6	3.8
9.0	11.8	25.1	11.8	10.2	2.2	0.9	18.7	20.7	3.8
9.2	11.7	25.0	11.5	10.3	2.2	0.9	17.6	20.7	3.7
9.4	11.7	25.0	11.3	10.4	2.2	1.0	18.4	20.7	3.7
9.6	11.6	25.0	11.1	10.3	2.2	1.0	18.0	20.5	3.8
9.8	11.5	25.0	11.1	10.4	2.2	1.0	17.6	20.6	3.8
10.0	11.4	24.9	11.1	10.5	2.2	1.0	17.5	20.0	3.8
11.0	11.0	24.7	11.6	11.3	2.3	1.0	16.2	19.5	3.8
12.0	10.6	24.8	12.2	10.2	2.4	1.0	16.5	19.4	3.8
13.0	9.7	25.1	12.0	7.7	2.5	0.9	-	-	-
14.0	8.3	26.0	9.9	6.1	2.9	0.9	-	-	-
15.0	7.0	27.0	7.4	5.5	3.2	0.9	-	-	-

## 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:  $V_{DD} = +6V$ ,  $V_C = +2V$ ,  $I_{DD} = 28mA$  @ Temperature =  $-45^{\circ}C$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	11.0	21.2	15.8	9.6	1.6	0.8	8.5	21.8	14.5
0.4	11.2	21.0	15.8	9.6	1.6	0.8	8.9	22.4	5.8
0.6	11.2	21.0	15.6	9.8	1.6	0.8	9.1	22.3	5.1
0.8	11.2	21.1	15.5	9.8	1.6	0.8	9.1	22.2	4.9
1.0	11.1	21.1	15.4	9.8	1.6	0.8	9.0	21.9	4.8
1.2	11.1	21.2	15.2	9.8	1.6	0.8	9.3	22.0	4.7
1.4	11.1	21.3	15.2	9.8	1.7	0.8	9.6	22.1	4.7
1.6	11.0	21.4	15.1	9.9	1.7	0.8	9.7	22.4	4.7
1.8	10.9	21.6	15.1	9.8	1.7	0.8	9.6	22.5	4.7
2.0	10.9	21.7	15.1	9.8	1.7	0.8	9.6	22.4	4.7
2.2	10.9	21.8	15.2	9.8	1.8	0.8	10.1	21.8	4.7
2.4	10.8	21.9	15.4	9.8	1.8	0.8	9.7	22.5	4.7
2.6	10.8	22.0	15.7	9.8	1.8	0.8	10.0	22.3	4.7
2.8	10.7	22.1	16.0	9.9	1.9	0.8	10.2	22.3	4.8
3.0	10.8	22.1	16.3	9.9	1.9	0.8	10.1	22.3	4.7
3.2	10.7	22.2	16.6	10.0	1.9	0.8	10.5	22.2	4.7
3.4	10.8	22.3	17.1	10.1	1.9	0.8	10.0	22.7	4.7
3.6	10.7	22.4	17.4	10.2	2.0	0.8	10.5	22.0	4.7
3.8	10.7	22.5	17.6	10.2	2.0	0.8	10.3	21.8	4.7
4.0	10.6	22.7	17.5	10.0	2.0	0.8	10.3	21.6	4.6
4.2	10.4	22.8	17.1	9.8	2.1	0.8	10.1	21.4	4.6
4.4	10.3	23.0	16.5	9.4	2.1	0.8	10.2	22.2	4.6
4.6	10.1	23.3	15.8	9.0	2.2	0.8	10.7	21.5	4.6
4.8	10.0	23.5	15.1	8.6	2.2	0.8	10.0	22.0	4.6
5.0	9.8	23.7	14.5	8.1	2.3	0.8	9.8	22.4	4.7
5.2	9.6	23.9	13.9	7.7	2.3	0.8	9.8	21.8	4.6
5.4	9.4	24.1	13.4	7.4	2.4	0.8	9.6	21.6	4.6
5.6	9.3	24.2	13.0	7.1	2.4	0.8	10.1	21.5	4.6
5.8	9.1	24.3	12.7	6.9	2.5	0.8	9.8	21.8	4.6
6.0	9.0	24.5	12.5	6.7	2.5	0.8	10.4	21.2	4.6
6.2	8.9	24.6	12.4	6.7	2.6	0.8	9.9	21.5	4.6
6.4	8.8	24.7	12.3	6.6	2.6	0.8	9.7	21.5	4.5
6.6	8.7	24.7	12.4	6.6	2.7	0.8	9.9	21.3	4.5
6.8	8.6	24.8	12.4	6.7	2.7	0.8	9.6	21.8	4.5
7.0	8.5	24.8	12.4	6.9	2.8	0.8	9.8	21.9	4.5
7.2	8.5	24.8	12.5	7.1	2.8	0.8	9.6	21.8	4.6
7.4	8.4	24.8	12.6	7.3	2.9	0.8	9.6	21.5	4.5
7.6	8.4	24.8	12.6	7.6	2.9	0.8	10.1	21.4	4.5
7.8	8.3	24.9	12.5	7.9	3.0	0.9	9.9	21.3	4.6
8.0	8.2	24.9	12.5	8.2	3.1	0.9	9.8	21.9	4.6
8.2	8.1	24.9	12.3	8.4	3.1	0.9	9.6	21.6	4.6
8.4	8.0	24.9	12.0	8.6	3.2	0.9	9.7	21.9	4.6
8.6	8.0	25.0	11.7	8.7	3.2	0.9	9.7	21.7	4.6
8.8	7.9	24.9	11.5	8.7	3.2	0.9	10.0	21.5	4.6
9.0	7.9	24.9	11.3	8.7	3.2	0.9	10.2	21.3	4.5
9.2	7.8	24.8	11.2	8.7	3.2	0.9	9.8	21.7	4.5
9.4	7.7	24.8	11.2	8.8	3.2	0.9	10.1	21.3	4.6
9.6	7.7	24.8	11.2	8.9	3.3	0.9	10.0	21.3	4.6
9.8	7.6	24.8	11.3	9.1	3.3	0.9	10.0	21.5	4.6
10.0	7.5	24.9	11.4	9.4	3.4	0.9	10.2	20.6	4.6
11.0	6.8	25.1	12.0	10.9	4.0	1.0	9.7	21.9	4.7
12.0	6.2	25.2	12.2	9.7	4.1	0.9	9.9	21.3	4.7
13.0	5.2	25.5	12.7	7.6	4.5	0.9	-	-	-
14.0	3.5	26.5	10.5	6.3	5.5	0.8	-	-	-
15.0	2.0	27.4	7.7	5.3	6.0	0.8	-	-	-

## Typical Performance Data

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

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS:  $V_{DD} = +6V$ ,  $V_C = +1V$ ,  $I_{DD} = 10mA$  @ Temperature =  $-45^{\circ}C$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	7.8	19.9	10.6	5.7	1.6	0.7	12.0	21.4	18.2
0.4	7.9	19.8	10.2	5.7	1.6	0.7	12.2	22.1	6.2
0.6	8.0	19.7	10.0	5.9	1.6	0.7	12.0	22.1	5.1
0.8	8.0	19.7	9.9	6.0	1.6	0.7	12.2	21.9	4.8
1.0	8.1	19.6	9.9	6.2	1.6	0.7	12.0	21.5	4.6
1.2	8.1	19.7	10.0	6.4	1.6	0.7	12.3	21.9	4.6
1.4	8.1	19.7	10.1	6.5	1.6	0.7	12.4	21.8	4.6
1.6	8.1	19.7	10.2	6.7	1.7	0.7	12.5	22.2	4.6
1.8	8.0	19.8	10.3	6.7	1.7	0.7	12.4	22.4	4.6
2.0	8.0	19.8	10.3	6.9	1.7	0.7	12.7	22.1	4.6
2.2	8.0	19.8	10.5	6.9	1.7	0.7	13.1	21.6	4.6
2.4	8.0	19.9	10.8	7.0	1.7	0.7	12.8	22.2	4.5
2.6	7.9	19.9	11.2	7.1	1.8	0.7	13.1	22.1	4.6
2.8	7.8	20.0	11.6	7.2	1.8	0.8	13.1	22.0	4.6
3.0	7.8	20.1	11.7	7.1	1.8	0.8	13.3	22.1	4.6
3.2	7.8	20.2	11.8	7.1	1.9	0.8	13.6	22.2	4.6
3.4	7.8	20.1	12.0	7.1	1.9	0.8	13.4	22.6	4.5
3.6	7.7	20.2	12.1	7.1	1.9	0.8	13.9	22.2	4.5
3.8	7.6	20.3	12.2	7.0	1.9	0.8	13.9	21.9	4.5
4.0	7.5	20.5	12.3	7.0	2.0	0.8	13.7	21.7	4.5
4.2	7.4	20.6	12.2	6.8	2.0	0.8	13.8	21.6	4.5
4.4	7.2	20.8	12.1	6.7	2.1	0.8	14.2	22.2	4.4
4.6	7.0	21.0	11.8	6.5	2.1	0.8	14.5	21.9	4.4
4.8	6.7	21.3	11.5	6.4	2.2	0.8	14.3	22.2	4.5
5.0	6.3	21.7	11.1	6.3	2.4	0.8	14.5	22.6	4.5
5.2	5.9	22.0	10.7	6.3	2.6	0.8	14.6	21.8	4.5
5.4	5.7	22.2	10.5	6.3	2.7	0.8	14.6	21.6	4.5
5.6	5.6	22.2	10.3	5.9	2.6	0.8	15.4	21.6	4.5
5.8	5.6	22.3	10.2	5.5	2.6	0.7	15.3	21.9	4.5
6.0	5.4	22.4	10.1	5.2	2.6	0.7	16.0	21.5	4.5
6.2	5.3	22.6	10.1	5.0	2.6	0.7	15.8	21.6	4.5
6.4	5.1	22.7	10.1	4.9	2.7	0.7	15.6	21.5	4.5
6.6	5.0	22.8	10.2	4.9	2.8	0.7	16.1	21.3	4.5
6.8	4.9	22.9	10.4	4.8	2.8	0.7	16.0	21.9	4.5
7.0	4.8	23.1	10.5	4.9	2.9	0.7	16.6	22.0	4.6
7.2	4.7	23.1	10.7	4.9	3.0	0.7	16.7	22.0	4.6
7.4	4.6	23.2	10.9	5.0	3.1	0.7	17.0	21.5	4.5
7.6	4.5	23.2	11.0	5.2	3.2	0.7	17.4	21.5	4.5
7.8	4.5	23.3	11.1	5.3	3.2	0.7	17.2	21.6	4.6
8.0	4.4	23.3	11.2	5.5	3.3	0.7	17.1	21.9	4.6
8.2	4.3	23.3	11.2	5.6	3.4	0.7	17.1	22.1	4.6
8.4	4.3	23.4	11.1	5.8	3.5	0.8	17.4	21.9	4.7
8.6	4.2	23.5	11.0	5.9	3.6	0.8	16.9	22.0	4.7
8.8	4.1	23.5	10.9	6.0	3.6	0.8	17.3	21.8	4.8
9.0	4.0	23.6	10.7	6.1	3.7	0.8	18.0	21.6	4.8
9.2	3.9	23.6	10.5	6.1	3.8	0.8	16.7	22.3	4.9
9.4	3.8	23.6	10.4	6.1	3.8	0.8	17.2	21.6	4.9
9.6	3.7	23.6	10.4	6.1	3.9	0.8	16.9	21.8	4.8
9.8	3.6	23.8	10.4	6.2	4.0	0.8	16.6	21.8	5.0
10.0	3.5	23.8	10.5	6.2	4.1	0.8	17.5	21.0	5.0
11.0	3.0	23.9	11.4	7.0	4.7	0.8	15.9	22.4	5.1
12.0	2.4	23.9	12.9	7.2	5.1	0.8	16.4	21.9	5.4
13.0	1.4	24.0	13.6	5.9	5.3	0.8	-	-	-
14.0	-0.4	24.9	11.3	4.4	6.1	0.7	-	-	-
15.0	-2.2	25.5	8.5	3.6	6.5	0.7	-	-	-

## Typical Performance Data

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

**Definitions:**

- Input Return Loss = -S11 (dB)
- Gain(Power Gain) = S21 (dB)
- Reverse Isolation = -S12 (dB)
- Output Return Loss = -S22 (dB)

TEST CONDITIONS:  $V_{DD} = +6V$ ,  $V_C = +0.8V$ ,  $I_{DD} = 1mA$  @ Temperature =  $-45^{\circ}C$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	3.7	18.6	7.5	4.1	1.8	0.6	7.6	21.2	19.4
0.4	3.5	18.7	7.5	4.2	1.8	0.6	7.9	22.0	7.2
0.6	3.4	18.8	7.4	4.4	1.9	0.6	7.8	22.0	6.2
0.8	3.3	18.8	7.4	4.5	1.9	0.7	7.9	21.8	6.1
1.0	3.2	18.9	7.4	4.6	2.0	0.7	7.3	21.4	5.8
1.2	3.2	18.9	7.5	4.6	2.0	0.7	7.3	21.8	5.9
1.4	3.1	19.0	7.5	4.7	2.1	0.7	7.2	21.8	5.8
1.6	3.0	19.0	7.7	4.8	2.1	0.7	7.1	22.2	5.9
1.8	2.8	19.1	7.8	4.8	2.2	0.7	7.1	22.4	5.8
2.0	2.8	19.1	7.9	4.8	2.2	0.7	6.9	22.3	6.0
2.2	2.6	19.2	8.1	4.8	2.3	0.7	7.3	21.4	5.9
2.4	2.5	19.2	8.3	4.8	2.3	0.7	7.3	22.4	6.0
2.6	2.3	19.3	8.7	4.8	2.4	0.7	6.8	22.1	6.1
2.8	2.1	19.4	9.0	4.8	2.5	0.7	6.6	22.1	6.1
3.0	1.9	19.5	9.2	4.8	2.6	0.7	6.7	22.1	6.2
3.2	1.8	19.6	9.3	4.7	2.6	0.7	7.5	22.2	6.2
3.4	1.6	19.7	9.4	4.7	2.7	0.7	7.0	22.8	6.2
3.6	1.4	19.8	9.5	4.7	2.8	0.7	7.0	22.1	6.1
3.8	1.2	19.9	9.6	4.6	2.9	0.7	6.9	22.0	6.4
4.0	0.9	20.1	9.7	4.6	3.1	0.7	6.8	21.6	6.4
4.2	0.6	20.4	9.7	4.5	3.2	0.7	6.8	21.5	6.5
4.4	0.3	20.6	9.6	4.5	3.4	0.7	6.8	22.3	6.5
4.6	-0.2	21.0	9.5	4.4	3.6	0.7	6.7	21.8	6.5
4.8	-0.6	21.3	9.3	4.4	3.9	0.7	6.7	22.3	6.8
5.0	-1.1	21.8	9.2	4.4	4.4	0.7	6.7	22.8	6.8
5.2	-1.6	22.3	9.1	4.4	4.9	0.7	6.6	22.2	7.1
5.4	-2.0	22.5	9.0	4.4	5.2	0.7	6.7	21.6	7.1
5.6	-2.2	22.7	8.9	4.2	5.3	0.7	6.7	21.4	7.3
5.8	-2.5	22.8	8.9	3.9	5.3	0.6	6.6	21.8	7.3
6.0	-2.7	23.0	8.9	3.7	5.5	0.6	6.6	21.4	7.4
6.2	-2.9	23.2	9.1	3.6	5.7	0.6	6.6	21.6	7.5
6.4	-3.2	23.4	9.2	3.6	5.9	0.6	6.6	21.5	7.5
6.6	-3.4	23.6	9.4	3.6	6.2	0.6	6.6	21.2	7.6
6.8	-3.6	23.8	9.6	3.6	6.6	0.6	6.6	21.9	7.5
7.0	-3.8	23.9	9.8	3.7	7.0	0.6	6.6	21.9	7.9
7.2	-4.0	24.1	10.0	3.7	7.3	0.6	6.5	22.0	8.2
7.4	-4.1	24.2	10.2	3.8	7.8	0.6	6.5	21.5	8.0
7.6	-4.3	24.3	10.4	4.0	8.1	0.6	6.5	21.5	7.9
7.8	-4.4	24.4	10.5	4.1	8.5	0.7	6.5	21.5	8.7
8.0	-4.5	24.4	10.6	4.2	8.8	0.7	6.4	21.7	8.2
8.2	-4.6	24.5	10.6	4.4	9.2	0.7	6.4	22.0	8.2
8.4	-4.7	24.6	10.6	4.5	9.6	0.7	6.4	21.8	8.8
8.6	-4.9	24.8	10.5	4.6	10.1	0.7	6.4	22.1	8.7
8.8	-5.0	24.8	10.4	4.7	10.3	0.7	6.4	21.9	8.7
9.0	-5.1	24.9	10.2	4.8	10.7	0.7	6.5	21.7	8.9
9.2	-5.3	24.9	10.1	4.8	10.9	0.7	6.4	22.4	9.1
9.4	-5.4	25.0	10.0	4.9	11.2	0.7	6.4	21.7	8.9
9.6	-5.5	25.1	10.0	4.9	11.5	0.7	6.4	21.9	9.4
9.8	-5.7	25.1	10.1	4.9	11.9	0.7	6.4	22.0	9.3
10.0	-5.8	25.2	10.3	5.0	12.3	0.7	6.4	21.3	9.3
11.0	-6.4	25.3	11.3	5.8	14.5	0.8	6.2	22.2	9.7
12.0	-7.0	24.9	12.8	6.0	15.7	0.8	6.3	21.4	10.1
13.0	-8.0	24.8	13.1	5.0	15.9	0.7	-	-	-
14.0	-9.9	25.5	10.6	3.8	17.6	0.6	-	-	-
15.0	-11.6	25.7	8.2	3.2	18.1	0.6	-	-	-

## 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:  $V_{DD} = +6V$ ,  $V_C = +5V$ ,  $I_{DD} = 74mA$  @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	16.2	25.6	16.7	19.6	1.6	0.9	25.9	20.6	9.5
0.4	16.3	25.2	19.8	20.5	1.6	0.9	24.9	20.6	5.3
0.6	16.4	25.2	20.8	20.6	1.6	0.9	24.1	20.9	4.9
0.8	16.4	25.2	21.7	20.9	1.6	0.9	27.2	20.9	4.8
1.0	16.4	25.3	22.2	21.1	1.6	0.9	27.0	20.7	4.8
1.2	16.4	25.3	22.8	21.3	1.6	0.9	26.8	21.0	4.8
1.4	16.4	25.4	23.3	21.8	1.6	0.9	27.1	20.9	4.7
1.6	16.4	25.5	23.8	21.9	1.6	0.9	27.8	21.1	4.7
1.8	16.4	25.6	24.4	22.7	1.6	0.9	28.0	20.9	4.7
2.0	16.4	25.7	24.7	22.8	1.7	0.9	28.5	21.0	4.7
2.2	16.4	25.8	24.8	23.5	1.7	0.9	28.3	21.0	4.7
2.4	16.4	25.9	24.7	23.8	1.7	0.9	27.7	20.9	4.7
2.6	16.4	26.1	24.3	23.8	1.7	0.9	27.1	21.0	4.8
2.8	16.3	26.3	24.0	23.6	1.8	0.9	28.4	20.7	4.8
3.0	16.3	26.4	23.6	23.4	1.8	0.9	28.7	20.9	4.8
3.2	16.4	26.5	22.9	23.0	1.8	0.9	28.4	20.7	4.8
3.4	16.4	26.6	21.9	22.0	1.8	0.9	29.2	20.8	4.8
3.6	16.3	26.8	21.1	21.3	1.9	0.9	28.5	20.7	4.8
3.8	16.3	27.0	20.5	20.3	1.9	0.9	30.3	20.3	4.8
4.0	16.3	27.1	20.2	19.7	1.9	0.9	31.5	20.6	4.8
4.2	16.2	27.3	20.0	18.9	2.0	0.9	31.0	20.2	4.8
4.4	16.2	27.4	19.9	18.3	2.0	0.9	31.7	20.4	4.8
4.6	16.1	27.6	19.8	17.6	2.1	0.9	33.7	20.3	4.8
4.8	16.1	27.8	19.6	16.9	2.1	0.9	30.5	20.2	4.8
5.0	16.0	28.0	19.4	16.3	2.1	0.9	30.1	20.4	4.9
5.2	15.9	28.2	19.0	15.5	2.2	0.9	31.1	20.0	4.8
5.4	15.9	28.3	18.6	14.9	2.2	0.9	29.3	20.0	4.8
5.6	15.8	28.4	18.0	14.3	2.3	0.9	28.8	19.9	4.8
5.8	15.7	28.6	17.5	14.0	2.3	0.9	28.4	19.9	4.7
6.0	15.7	28.6	17.2	13.7	2.3	0.9	27.8	19.7	4.8
6.2	15.6	28.8	16.9	13.6	2.4	0.9	27.6	19.7	4.8
6.4	15.5	28.8	16.5	13.5	2.4	0.9	27.0	19.7	4.8
6.6	15.5	28.8	16.3	13.6	2.4	0.9	28.0	19.6	4.8
6.8	15.4	28.9	15.9	13.8	2.5	1.0	27.0	19.7	4.8
7.0	15.4	28.9	15.6	14.2	2.5	1.0	27.3	19.5	4.8
7.2	15.3	28.9	15.3	14.7	2.5	1.0	27.1	19.6	4.8
7.4	15.2	28.9	15.0	15.3	2.6	1.0	27.0	19.2	4.8
7.6	15.1	29.0	14.5	16.0	2.6	1.0	26.4	19.4	4.8
7.8	15.0	29.1	14.0	16.6	2.7	1.0	26.1	19.1	4.9
8.0	14.9	29.0	13.6	17.0	2.7	1.0	27.9	19.3	4.9
8.2	14.8	29.1	13.1	17.4	2.7	1.0	25.9	19.2	4.9
8.4	14.7	29.1	12.6	17.5	2.8	1.0	25.8	19.1	5.0
8.6	14.6	29.1	12.1	17.8	2.8	1.0	26.4	19.3	5.0
8.8	14.5	29.1	11.7	17.8	2.8	1.0	25.6	19.0	5.0
9.0	14.4	29.0	11.5	17.8	2.8	1.0	26.0	19.2	5.0
9.2	14.3	29.0	11.3	17.8	2.8	1.0	26.0	19.0	5.0
9.4	14.1	29.0	11.2	18.0	2.9	1.0	25.6	18.7	5.1
9.6	14.0	29.1	11.2	18.2	2.9	1.0	26.1	19.0	5.1
9.8	13.8	29.0	11.3	18.5	2.9	1.0	25.2	18.6	5.1
10.0	13.7	29.0	11.3	18.9	3.0	1.0	27.1	19.0	5.2
11.0	12.8	29.2	11.4	16.2	3.4	1.0	27.2	18.6	5.3
12.0	12.1	29.4	11.0	12.2	3.6	1.0	26.7	18.3	5.4
13.0	11.0	29.8	10.6	9.8	4.1	1.0	-	-	-
14.0	9.4	30.9	8.7	8.4	5.0	1.0	-	-	-
15.0	8.0	31.7	6.8	7.6	5.7	1.0	-	-	-

## 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:  $V_{DD} = +6V$ ,  $V_C = +4V$ ,  $I_{DD} = 57mA$  @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	15.5	24.7	18.5	30.5	1.6	0.9	23.1	20.7	10.1
0.4	15.6	24.4	23.3	33.5	1.6	0.9	21.8	20.9	5.3
0.6	15.7	24.4	25.5	33.2	1.6	0.9	22.1	21.0	4.9
0.8	15.7	24.4	27.1	33.9	1.6	0.9	24.3	21.0	4.8
1.0	15.7	24.5	28.3	34.8	1.6	0.9	24.5	20.9	4.8
1.2	15.7	24.5	29.7	35.2	1.6	0.9	25.1	21.0	4.7
1.4	15.7	24.6	30.9	38.0	1.6	0.9	25.2	21.0	4.7
1.6	15.7	24.7	32.0	38.7	1.6	0.9	25.4	21.3	4.7
1.8	15.7	24.8	33.3	44.4	1.6	0.9	25.0	21.1	4.7
2.0	15.7	24.9	33.7	40.9	1.7	0.9	25.3	21.1	4.7
2.2	15.7	25.0	33.3	37.7	1.7	0.9	26.1	21.1	4.7
2.4	15.7	25.2	32.6	33.9	1.7	0.9	25.8	21.1	4.7
2.6	15.6	25.3	31.8	33.1	1.7	0.9	25.4	21.1	4.8
2.8	15.6	25.4	30.8	30.5	1.8	0.9	26.8	20.9	4.8
3.0	15.6	25.6	29.9	29.8	1.8	0.9	27.0	21.1	4.8
3.2	15.6	25.7	28.2	27.8	1.8	0.9	27.8	20.9	4.8
3.4	15.6	25.8	26.3	25.9	1.8	0.9	26.8	21.1	4.8
3.6	15.6	25.9	24.8	24.3	1.9	0.9	27.1	20.9	4.8
3.8	15.5	26.1	23.8	22.2	1.9	0.9	28.3	20.6	4.8
4.0	15.5	26.3	22.9	20.9	1.9	0.9	28.3	20.8	4.8
4.2	15.4	26.4	22.3	19.4	2.0	0.9	29.0	20.5	4.8
4.4	15.4	26.6	21.6	18.1	2.0	0.9	29.9	20.8	4.8
4.6	15.3	26.7	21.0	16.9	2.0	0.9	29.6	20.6	4.8
4.8	15.2	26.9	20.3	15.9	2.1	0.9	28.8	20.6	4.8
5.0	15.2	27.1	19.6	14.9	2.1	0.9	29.0	20.8	4.8
5.2	15.1	27.3	18.9	14.1	2.2	0.9	28.7	20.4	4.8
5.4	15.0	27.4	18.2	13.4	2.2	0.9	27.6	20.3	4.8
5.6	14.9	27.6	17.5	12.8	2.2	0.9	28.2	20.1	4.8
5.8	14.8	27.7	16.9	12.5	2.3	0.9	27.2	20.3	4.8
6.0	14.7	27.7	16.6	12.2	2.3	0.9	26.9	20.0	4.8
6.2	14.7	27.9	16.2	12.0	2.3	0.9	26.6	20.1	4.8
6.4	14.6	28.0	15.9	11.9	2.4	0.9	25.9	20.0	4.8
6.6	14.5	28.0	15.7	12.0	2.4	0.9	26.2	19.9	4.8
6.8	14.5	28.0	15.5	12.2	2.5	0.9	25.7	19.9	4.8
7.0	14.4	28.1	15.2	12.5	2.5	0.9	26.0	19.9	4.8
7.2	14.3	28.1	15.0	13.0	2.5	1.0	25.5	20.0	4.8
7.4	14.3	28.1	14.7	13.5	2.5	1.0	25.4	19.6	4.8
7.6	14.2	28.1	14.3	14.1	2.6	1.0	25.8	19.6	4.8
7.8	14.1	28.2	13.9	14.6	2.6	1.0	26.1	19.4	4.9
8.0	14.0	28.2	13.5	15.1	2.7	1.0	25.7	19.7	4.9
8.2	13.9	28.1	13.0	15.4	2.7	1.0	24.7	19.4	4.9
8.4	13.8	28.1	12.6	15.7	2.7	1.0	24.4	19.5	5.0
8.6	13.7	28.2	12.1	16.0	2.7	1.0	25.2	19.5	5.0
8.8	13.6	28.2	11.7	16.0	2.7	1.0	24.7	19.1	5.0
9.0	13.5	28.2	11.5	16.1	2.8	1.0	24.8	19.4	5.0
9.2	13.4	28.1	11.3	16.1	2.8	1.0	24.5	19.1	5.0
9.4	13.3	28.1	11.2	16.3	2.8	1.0	24.6	18.9	5.0
9.6	13.2	28.2	11.3	16.6	2.9	1.0	24.1	19.0	5.1
9.8	13.1	28.2	11.3	16.9	2.9	1.0	24.1	18.8	5.1
10.0	12.9	28.2	11.3	17.4	3.0	1.0	25.4	19.0	5.1
11.0	12.1	28.4	11.6	16.3	3.3	1.0	25.1	18.6	5.3
12.0	11.5	28.7	11.2	12.4	3.6	1.0	24.7	18.3	5.4
13.0	10.3	29.1	10.9	9.7	4.0	1.0	-	-	-
14.0	8.7	30.1	8.9	8.3	4.9	1.0	-	-	-
15.0	7.3	31.2	6.9	7.3	5.7	1.0	-	-	-



## 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:  $V_{DD} = +6V$ ,  $V_C = +3V$ ,  $I_{DD} = 41mA$  @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	14.0	23.2	20.5	19.0	1.6	0.9	17.7	20.9	11.2
0.4	14.2	23.1	26.0	18.8	1.6	0.9	18.0	21.5	5.5
0.6	14.2	23.0	27.6	19.0	1.6	0.9	18.1	21.5	5.0
0.8	14.2	23.0	27.6	18.8	1.6	0.9	19.8	21.4	4.9
1.0	14.2	23.1	27.3	18.8	1.6	0.9	19.3	21.3	4.9
1.2	14.2	23.2	26.7	18.8	1.6	0.9	19.6	21.3	4.9
1.4	14.2	23.2	26.3	18.6	1.6	0.9	20.0	21.4	4.8
1.6	14.2	23.3	25.9	18.6	1.6	0.9	20.4	21.6	4.8
1.8	14.1	23.4	25.4	18.2	1.7	0.9	19.8	21.5	4.8
2.0	14.1	23.6	25.1	18.2	1.7	0.9	20.1	21.5	4.8
2.2	14.1	23.7	25.1	17.8	1.7	0.9	21.0	21.2	4.8
2.4	14.1	23.8	25.4	17.6	1.7	0.9	20.1	21.5	4.8
2.6	14.0	23.9	26.1	17.7	1.8	0.9	20.7	21.4	4.9
2.8	14.0	24.0	27.0	17.6	1.8	0.9	21.2	21.3	4.9
3.0	14.0	24.2	27.5	17.7	1.8	0.9	21.0	21.4	4.9
3.2	14.0	24.3	28.3	17.6	1.8	0.9	21.8	21.3	4.9
3.4	14.0	24.4	28.8	17.6	1.8	0.9	21.2	21.5	4.9
3.6	14.0	24.5	28.4	17.5	1.9	0.9	22.1	21.2	4.9
3.8	13.9	24.7	27.0	17.0	1.9	0.9	22.0	21.0	4.9
4.0	13.9	24.8	25.4	16.4	1.9	0.9	22.1	21.0	4.9
4.2	13.8	25.0	23.8	15.4	2.0	0.9	21.7	20.8	4.9
4.4	13.7	25.1	22.1	14.5	2.0	0.9	22.4	21.1	4.9
4.6	13.6	25.3	20.7	13.6	2.0	0.9	24.1	20.8	4.9
4.8	13.5	25.5	19.4	12.8	2.1	0.9	22.7	21.0	4.9
5.0	13.4	25.7	18.3	12.0	2.1	0.9	22.1	21.1	4.9
5.2	13.3	25.9	17.4	11.3	2.2	0.9	22.8	20.7	5.0
5.4	13.1	26.0	16.6	10.7	2.2	0.9	21.9	20.6	4.9
5.6	13.0	26.1	15.9	10.2	2.2	0.9	23.1	20.5	4.9
5.8	12.9	26.3	15.5	9.9	2.3	0.9	22.3	20.6	4.9
6.0	12.8	26.4	15.1	9.7	2.3	0.9	24.3	20.3	4.9
6.2	12.8	26.5	14.8	9.6	2.3	0.9	23.3	20.4	4.9
6.4	12.7	26.5	14.6	9.5	2.4	0.9	22.6	20.3	4.9
6.6	12.6	26.6	14.5	9.6	2.4	0.9	23.8	20.2	4.9
6.8	12.6	26.6	14.4	9.7	2.5	0.9	23.1	20.4	4.9
7.0	12.5	26.6	14.3	9.9	2.5	0.9	23.8	20.5	4.9
7.2	12.5	26.7	14.1	10.3	2.5	0.9	24.0	20.4	4.9
7.4	12.4	26.7	14.1	10.6	2.6	0.9	24.0	20.1	4.9
7.6	12.3	26.7	13.8	11.1	2.6	0.9	25.8	20.1	4.9
7.8	12.3	26.7	13.6	11.5	2.6	0.9	25.0	20.0	4.9
8.0	12.2	26.7	13.3	11.9	2.7	1.0	23.9	20.3	5.0
8.2	12.1	26.7	12.9	12.2	2.7	1.0	24.3	20.0	5.0
8.4	12.0	26.8	12.5	12.4	2.7	1.0	25.0	20.1	5.1
8.6	11.9	26.8	12.0	12.6	2.8	1.0	23.8	20.0	5.1
8.8	11.9	26.7	11.7	12.6	2.7	1.0	24.6	19.7	5.1
9.0	11.8	26.7	11.5	12.7	2.8	1.0	24.9	19.8	5.1
9.2	11.7	26.7	11.3	12.8	2.8	1.0	23.4	19.7	5.1
9.4	11.6	26.6	11.3	13.0	2.8	1.0	23.5	19.5	5.2
9.6	11.5	26.7	11.3	13.2	2.9	1.0	22.9	19.5	5.2
9.8	11.4	26.7	11.4	13.5	2.9	1.0	22.3	19.4	5.2
10.0	11.3	26.7	11.4	14.0	3.0	1.0	22.8	19.2	5.2
11.0	10.5	26.9	11.7	14.8	3.4	1.0	21.5	18.8	5.4
12.0	10.0	27.2	11.5	11.8	3.6	1.0	21.4	18.6	5.6
13.0	8.9	27.7	11.4	9.1	4.0	1.0	-	-	-
14.0	7.2	28.8	9.3	7.6	4.9	0.9	-	-	-
15.0	5.7	29.8	7.0	6.6	5.6	1.0	-	-	-

## 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:  $V_{DD} = +6V$ ,  $V_C = +2V$ ,  $I_{DD} = 28mA$  @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	10.3	21.1	16.0	8.5	1.7	0.8	11.2	21.1	13.4
0.4	10.5	20.9	15.9	8.8	1.6	0.8	11.9	21.7	6.2
0.6	10.5	20.9	15.7	8.8	1.6	0.8	12.2	21.6	5.5
0.8	10.5	20.9	15.5	8.8	1.6	0.8	12.6	21.5	5.4
1.0	10.5	21.0	15.4	8.9	1.7	0.8	12.5	21.3	5.4
1.2	10.5	21.1	15.3	8.8	1.7	0.8	12.6	21.3	5.3
1.4	10.4	21.2	15.1	8.9	1.7	0.8	13.0	21.4	5.3
1.6	10.4	21.3	15.1	8.8	1.7	0.8	13.1	21.6	5.3
1.8	10.3	21.4	15.0	8.9	1.8	0.8	12.8	21.7	5.3
2.0	10.3	21.5	15.0	8.8	1.8	0.8	12.8	21.6	5.3
2.2	10.3	21.6	15.1	8.9	1.8	0.8	13.4	21.2	5.3
2.4	10.3	21.7	15.4	8.9	1.8	0.8	12.8	21.6	5.3
2.6	10.2	21.8	15.8	9.0	1.9	0.8	13.3	21.5	5.4
2.8	10.2	21.9	16.1	9.1	1.9	0.8	13.5	21.5	5.4
3.0	10.2	22.0	16.3	9.1	1.9	0.8	13.4	21.4	5.4
3.2	10.2	22.0	16.6	9.2	1.9	0.8	14.0	21.4	5.4
3.4	10.2	22.1	17.0	9.2	1.9	0.8	13.3	21.7	5.4
3.6	10.2	22.2	17.3	9.3	2.0	0.8	13.9	21.3	5.4
3.8	10.1	22.3	17.6	9.2	2.0	0.8	13.7	21.2	5.4
4.0	10.1	22.4	17.6	9.1	2.0	0.8	13.6	21.1	5.4
4.2	10.0	22.6	17.3	8.9	2.1	0.8	13.4	20.9	5.3
4.4	9.8	22.7	16.9	8.6	2.1	0.8	13.6	21.3	5.3
4.6	9.7	22.9	16.3	8.3	2.2	0.8	14.2	21.0	5.3
4.8	9.5	23.2	15.7	7.8	2.2	0.8	13.4	21.2	5.4
5.0	9.3	23.4	15.0	7.5	2.3	0.8	13.3	21.4	5.4
5.2	9.2	23.5	14.3	7.1	2.3	0.8	13.4	20.9	5.3
5.4	9.0	23.7	13.8	6.8	2.3	0.8	13.0	20.8	5.4
5.6	8.8	23.9	13.3	6.6	2.4	0.8	13.7	20.7	5.4
5.8	8.7	24.0	12.9	6.4	2.4	0.8	13.1	20.8	5.5
6.0	8.6	24.1	12.6	6.3	2.5	0.8	14.1	20.5	5.4
6.2	8.5	24.2	12.5	6.2	2.5	0.8	13.3	20.6	5.4
6.4	8.4	24.2	12.4	6.1	2.5	0.8	13.1	20.6	5.4
6.6	8.3	24.3	12.4	6.2	2.6	0.8	13.4	20.5	5.4
6.8	8.3	24.3	12.5	6.3	2.6	0.8	13.1	20.7	5.4
7.0	8.2	24.3	12.7	6.4	2.7	0.8	13.3	20.8	5.4
7.2	8.2	24.2	12.8	6.6	2.7	0.8	13.1	20.7	5.4
7.4	8.1	24.2	12.9	6.8	2.7	0.8	13.1	20.5	5.4
7.6	8.1	24.2	13.0	7.0	2.8	0.8	13.9	20.4	5.5
7.8	8.0	24.2	12.9	7.2	2.8	0.8	13.5	20.4	5.5
8.0	8.0	24.2	12.8	7.4	2.8	0.8	13.3	20.7	5.5
8.2	7.9	24.2	12.6	7.6	2.9	0.8	13.1	20.6	5.6
8.4	7.8	24.1	12.4	7.7	2.9	0.9	13.3	20.6	5.6
8.6	7.8	24.2	12.1	7.9	2.9	0.9	13.2	20.5	5.6
8.8	7.8	24.2	11.8	7.9	2.9	0.9	13.7	20.4	5.6
9.0	7.7	24.1	11.6	8.0	2.9	0.9	14.2	20.2	5.7
9.2	7.6	24.0	11.5	8.1	2.9	0.9	13.6	20.4	5.6
9.4	7.6	24.0	11.4	8.2	3.0	0.9	14.0	20.0	5.7
9.6	7.5	24.0	11.3	8.3	3.0	0.9	14.0	20.0	5.7
9.8	7.4	24.0	11.4	8.5	3.0	0.9	14.0	20.1	5.7
10.0	7.4	23.9	11.4	8.8	3.1	0.9	14.3	19.6	5.8
11.0	6.8	24.0	12.1	9.8	3.5	0.9	13.2	20.3	6.0
12.0	6.3	24.2	12.6	8.9	3.6	0.9	13.6	20.1	6.2
13.0	5.5	24.4	13.2	7.2	3.9	0.9	-	-	-
14.0	3.8	25.5	11.0	6.0	4.7	0.8	-	-	-
15.0	2.3	26.4	8.0	5.0	5.2	0.8	-	-	-

## Typical Performance Data

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

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS:  $V_{DD} = +6V$ ,  $V_C = +1V$ ,  $I_{DD} = 12mA$  @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	8.3	19.2	9.6	6.4	1.5	0.7	11.8	20.7	16.5
0.4	8.2	19.2	9.8	6.4	1.5	0.7	12.4	21.4	7.0
0.6	8.2	19.2	9.8	6.5	1.5	0.7	12.3	21.5	6.0
0.8	8.1	19.3	9.8	6.5	1.6	0.7	12.5	21.3	5.9
1.0	8.1	19.4	9.8	6.6	1.6	0.7	12.2	20.9	5.8
1.2	8.0	19.5	9.8	6.6	1.6	0.7	12.6	21.2	5.8
1.4	7.9	19.6	9.9	6.7	1.7	0.7	12.6	21.2	5.8
1.6	7.8	19.7	9.9	6.7	1.7	0.7	12.8	21.5	5.8
1.8	7.7	19.9	10.0	6.7	1.7	0.7	12.6	21.7	5.8
2.0	7.7	20.0	10.0	6.8	1.8	0.7	12.7	21.4	5.8
2.2	7.6	20.1	10.2	6.8	1.8	0.7	13.3	20.9	5.8
2.4	7.5	20.2	10.4	6.8	1.8	0.7	13.0	21.4	5.9
2.6	7.4	20.2	10.6	6.8	1.9	0.8	13.3	21.3	5.9
2.8	7.4	20.3	10.9	6.9	1.9	0.8	13.4	21.3	5.9
3.0	7.4	20.4	11.1	6.9	1.9	0.8	13.5	21.3	5.9
3.2	7.3	20.4	11.4	7.0	2.0	0.8	13.9	21.4	6.0
3.4	7.3	20.5	11.7	7.1	2.0	0.8	13.8	21.7	5.9
3.6	7.2	20.6	11.9	7.2	2.1	0.8	14.3	21.4	5.9
3.8	7.1	20.7	12.1	7.2	2.1	0.8	14.3	21.2	5.9
4.0	7.0	20.9	12.1	7.1	2.2	0.8	14.2	21.0	5.9
4.2	6.8	21.1	12.0	7.0	2.2	0.8	14.3	20.8	5.9
4.4	6.6	21.3	11.8	6.8	2.3	0.8	14.7	21.2	5.9
4.6	6.4	21.5	11.5	6.6	2.4	0.8	15.1	21.0	5.9
4.8	6.1	21.8	11.2	6.3	2.5	0.8	15.0	21.1	5.9
5.0	5.8	22.1	10.9	6.0	2.6	0.8	15.3	21.4	6.0
5.2	5.6	22.3	10.7	5.8	2.7	0.7	15.5	20.7	5.9
5.4	5.3	22.6	10.5	5.5	2.8	0.7	15.5	20.5	6.0
5.6	5.1	22.8	10.3	5.3	2.9	0.7	16.4	20.4	6.1
5.8	4.9	23.0	10.2	5.2	2.9	0.7	16.2	20.6	6.1
6.0	4.7	23.2	10.2	5.1	3.0	0.7	16.9	20.4	6.1
6.2	4.5	23.3	10.2	5.0	3.1	0.7	16.6	20.4	6.1
6.4	4.4	23.5	10.3	5.0	3.2	0.7	16.6	20.3	6.1
6.6	4.2	23.6	10.5	5.0	3.3	0.7	17.0	20.1	6.2
6.8	4.1	23.8	10.7	5.0	3.5	0.7	16.5	20.5	6.1
7.0	4.0	23.8	10.8	5.2	3.6	0.7	16.8	20.5	6.3
7.2	3.9	23.9	11.0	5.3	3.7	0.7	16.0	20.6	6.3
7.4	3.8	24.0	11.2	5.5	3.9	0.7	15.5	20.2	6.3
7.6	3.7	24.1	11.3	5.7	4.0	0.8	17.2	20.1	6.3
7.8	3.6	24.2	11.4	5.9	4.2	0.8	16.0	20.2	6.4
8.0	3.4	24.2	11.5	6.1	4.3	0.8	15.5	20.3	6.4
8.2	3.3	24.3	11.5	6.2	4.5	0.8	14.3	20.5	6.5
8.4	3.2	24.4	11.3	6.4	4.6	0.8	14.4	20.3	6.6
8.6	3.1	24.5	11.2	6.4	4.7	0.8	14.2	20.4	6.6
8.8	3.0	24.5	11.1	6.4	4.8	0.8	14.8	20.3	6.7
9.0	2.9	24.5	11.1	6.4	4.8	0.8	15.0	20.1	6.7
9.2	2.9	24.5	11.0	6.4	4.9	0.8	14.1	20.6	6.8
9.4	2.8	24.6	11.1	6.5	5.0	0.8	14.2	20.0	6.7
9.6	2.7	24.6	11.2	6.5	5.1	0.8	14.0	20.0	6.9
9.8	2.6	24.6	11.4	6.7	5.2	0.8	13.7	20.1	6.9
10.0	2.5	24.6	11.5	6.9	5.4	0.8	14.1	19.7	6.9
11.0	1.7	24.9	12.5	8.3	6.6	0.9	11.7	20.2	7.3
12.0	1.0	24.8	13.3	7.8	7.0	0.9	12.2	19.5	7.6
13.0	-0.1	24.9	14.3	6.3	7.5	0.8	-	-	-
14.0	-2.0	25.8	11.7	5.4	9.2	0.8	-	-	-
15.0	-3.7	26.2	8.7	4.5	9.9	0.7	-	-	-

## Typical Performance Data

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

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS:  $V_{DD} = +6V$ ,  $V_C = +0.8V$ ,  $I_{DD} = 6mA$  @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	7.1	18.7	8.1	5.7	1.5	0.7	12.1	20.5	16.5
0.4	7.1	18.7	8.3	5.7	1.5	0.7	12.3	21.4	7.0
0.6	7.0	18.8	8.4	5.8	1.6	0.7	12.2	21.4	6.0
0.8	6.9	18.9	8.4	5.8	1.6	0.7	12.4	21.3	6.0
1.0	6.9	18.9	8.4	5.8	1.6	0.7	12.4	20.9	5.9
1.2	6.7	19.1	8.5	5.9	1.7	0.7	12.6	21.1	5.9
1.4	6.6	19.2	8.5	5.9	1.7	0.7	12.7	21.3	5.9
1.6	6.5	19.3	8.6	6.0	1.7	0.7	12.7	21.5	6.0
1.8	6.4	19.5	8.7	6.0	1.8	0.7	13.0	21.8	5.9
2.0	6.3	19.6	8.8	6.0	1.8	0.7	13.4	21.6	5.9
2.2	6.2	19.7	9.0	6.0	1.9	0.7	13.5	20.8	6.0
2.4	6.1	19.8	9.2	6.0	1.9	0.7	13.8	21.6	6.0
2.6	6.0	19.9	9.4	6.1	2.0	0.7	14.0	21.3	6.1
2.8	5.9	20.0	9.7	6.1	2.0	0.7	14.1	21.3	6.1
3.0	5.8	20.0	10.0	6.1	2.1	0.7	14.8	21.3	6.1
3.2	5.8	20.1	10.2	6.1	2.1	0.7	14.7	21.4	6.1
3.4	5.7	20.2	10.4	6.2	2.2	0.7	15.4	21.8	6.1
3.6	5.6	20.3	10.7	6.3	2.2	0.8	15.7	21.3	6.1
3.8	5.5	20.4	10.8	6.3	2.3	0.8	15.8	21.3	6.1
4.0	5.3	20.6	10.8	6.3	2.4	0.8	15.6	20.9	6.2
4.2	5.0	20.8	10.7	6.2	2.5	0.8	14.8	20.8	6.2
4.4	4.8	21.1	10.6	6.0	2.6	0.8	14.6	21.3	6.2
4.6	4.5	21.4	10.4	5.8	2.7	0.7	14.7	20.9	6.2
4.8	4.2	21.7	10.2	5.5	2.8	0.7	13.4	21.1	6.3
5.0	3.8	22.1	10.0	5.3	3.0	0.7	13.2	21.4	6.4
5.2	3.5	22.4	9.8	5.1	3.1	0.7	12.7	20.8	6.5
5.4	3.2	22.7	9.7	4.9	3.3	0.7	12.1	20.4	6.4
5.6	2.9	22.9	9.6	4.7	3.4	0.7	12.5	20.2	6.6
5.8	2.7	23.1	9.6	4.6	3.5	0.7	11.6	20.4	6.6
6.0	2.4	23.4	9.7	4.5	3.7	0.7	12.2	20.3	6.7
6.2	2.2	23.5	9.8	4.5	3.8	0.7	11.3	20.4	6.7
6.4	2.0	23.7	9.9	4.5	4.0	0.7	10.9	20.2	6.7
6.6	1.9	23.9	10.1	4.5	4.2	0.7	11.0	19.9	6.9
6.8	1.7	24.0	10.3	4.6	4.4	0.7	10.5	20.3	6.9
7.0	1.6	24.1	10.5	4.7	4.6	0.7	10.5	20.4	7.0
7.2	1.4	24.3	10.7	4.8	4.8	0.7	10.0	20.5	7.1
7.4	1.3	24.3	10.9	5.0	5.0	0.7	9.8	20.0	7.0
7.6	1.2	24.5	11.0	5.2	5.3	0.7	10.7	20.0	7.1
7.8	1.0	24.6	11.2	5.4	5.6	0.7	10.0	20.0	7.2
8.0	0.9	24.7	11.3	5.6	5.9	0.8	9.8	20.1	7.2
8.2	0.7	24.8	11.3	5.7	6.1	0.8	9.3	20.4	7.3
8.4	0.6	24.9	11.2	5.8	6.3	0.8	9.4	20.1	7.6
8.6	0.4	25.0	11.1	5.9	6.5	0.8	9.2	20.4	7.4
8.8	0.3	25.0	11.0	5.9	6.6	0.8	9.5	20.2	7.7
9.0	0.2	25.0	11.0	5.9	6.7	0.8	9.8	20.1	7.8
9.2	0.1	25.0	11.0	5.9	6.8	0.8	9.2	20.6	7.7
9.4	0.0	25.1	11.1	5.9	6.9	0.8	9.3	19.9	7.7
9.6	-0.1	25.1	11.2	6.0	7.1	0.8	9.2	19.9	7.9
9.8	-0.2	25.1	11.4	6.2	7.3	0.8	9.2	20.1	8.0
10.0	-0.3	25.2	11.6	6.4	7.6	0.8	9.5	19.7	8.0
11.0	-1.3	25.4	12.6	7.8	9.6	0.9	8.5	19.9	8.5
12.0	-2.0	25.3	13.5	7.4	10.2	0.9	9.0	19.0	9.0
13.0	-3.2	25.2	14.3	6.0	10.8	0.8	-	-	-
14.0	-5.2	26.0	11.5	5.2	13.5	0.8	-	-	-
15.0	-7.0	26.3	8.7	4.3	14.4	0.7	-	-	-

## Typical Performance Data

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

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS:  $V_{DD} = +5V$ ,  $V_C = +5V$ ,  $I_{DD} = 69mA$  @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	16.3	25.8	16.1	18.7	1.6	0.9	26.4	19.5	8.6
0.4	16.5	25.4	18.6	19.3	1.6	0.9	26.3	19.0	4.7
0.6	16.5	25.3	19.5	19.5	1.6	0.9	26.8	19.5	4.3
0.8	16.5	25.4	20.1	19.7	1.6	0.9	26.9	19.5	4.2
1.0	16.5	25.4	20.5	19.9	1.6	0.9	27.0	19.0	4.2
1.2	16.6	25.5	21.1	20.3	1.6	0.9	28.4	19.7	4.2
1.4	16.6	25.6	21.5	20.6	1.6	0.9	28.4	19.2	4.1
1.6	16.6	25.6	21.9	20.9	1.6	0.9	28.1	19.8	4.1
1.8	16.6	25.8	22.4	21.4	1.6	0.9	28.5	19.3	4.1
2.0	16.6	25.8	22.8	21.7	1.7	0.9	27.9	19.4	4.1
2.2	16.6	26.0	22.8	21.8	1.7	0.9	28.5	19.4	4.1
2.4	16.6	26.1	22.5	22.0	1.7	0.9	27.8	19.2	4.2
2.6	16.5	26.2	22.1	21.6	1.7	0.9	30.0	19.5	4.2
2.8	16.5	26.4	21.9	21.2	1.8	0.9	29.3	18.8	4.2
3.0	16.5	26.5	21.8	21.0	1.8	0.9	29.4	19.2	4.2
3.2	16.5	26.7	21.2	20.5	1.8	0.9	31.8	18.9	4.2
3.4	16.5	26.8	20.5	19.7	1.8	0.9	30.1	18.9	4.2
3.6	16.5	27.0	19.9	19.1	1.9	0.9	32.1	18.9	4.2
3.8	16.5	27.1	19.4	18.4	1.9	0.9	34.5	18.4	4.2
4.0	16.5	27.3	19.1	17.8	1.9	0.9	35.1	18.8	4.2
4.2	16.4	27.5	19.0	17.3	2.0	0.9	36.8	18.3	4.2
4.4	16.4	27.6	18.9	16.7	2.0	0.9	34.7	18.6	4.2
4.6	16.3	27.8	18.9	16.3	2.0	0.9	32.6	18.4	4.2
4.8	16.3	28.0	19.0	15.8	2.1	0.9	31.5	18.4	4.2
5.0	16.2	28.1	18.9	15.3	2.1	0.9	31.0	18.6	4.3
5.2	16.2	28.2	18.8	14.7	2.1	0.9	29.7	18.3	4.3
5.4	16.1	28.5	18.6	14.2	2.2	0.9	29.0	18.3	4.2
5.6	16.0	28.5	18.2	13.8	2.2	0.9	31.0	18.2	4.2
5.8	16.0	28.5	17.9	13.5	2.2	0.9	29.1	18.4	4.2
6.0	15.9	28.7	17.7	13.3	2.3	0.9	28.3	18.1	4.2
6.2	15.9	28.7	17.4	13.2	2.3	0.9	28.1	18.2	4.2
6.4	15.8	28.8	17.1	13.2	2.3	0.9	28.2	18.2	4.2
6.6	15.8	28.9	16.9	13.4	2.3	0.9	28.1	18.1	4.2
6.8	15.7	28.9	16.6	13.6	2.4	0.9	28.8	18.3	4.2
7.0	15.7	29.0	16.3	13.9	2.4	1.0	26.8	18.1	4.2
7.2	15.6	29.0	15.9	14.4	2.4	1.0	27.4	18.3	4.2
7.4	15.6	29.0	15.5	14.8	2.5	1.0	27.4	17.7	4.2
7.6	15.5	29.0	15.0	15.3	2.5	1.0	28.2	18.0	4.2
7.8	15.4	28.9	14.4	15.6	2.5	1.0	27.5	17.7	4.2
8.0	15.3	28.9	13.9	15.8	2.5	1.0	27.7	17.9	4.2
8.2	15.2	28.9	13.3	16.0	2.5	1.0	26.6	17.8	4.3
8.4	15.1	28.9	12.8	16.0	2.5	1.0	27.3	17.6	4.3
8.6	15.0	28.9	12.3	16.2	2.5	1.0	26.8	17.9	4.3
8.8	14.9	28.8	12.0	16.2	2.5	1.0	27.6	17.4	4.3
9.0	14.8	28.8	11.7	16.3	2.6	1.0	27.3	17.7	4.3
9.2	14.7	28.8	11.4	16.3	2.6	1.0	26.6	17.4	4.3
9.4	14.6	28.7	11.3	16.4	2.6	1.0	26.7	17.2	4.4
9.6	14.4	28.7	11.2	16.5	2.6	1.0	26.8	17.6	4.4
9.8	14.3	28.7	11.2	16.5	2.7	1.0	26.6	17.0	4.4
10.0	14.2	28.8	11.3	16.6	2.7	1.0	27.2	17.5	4.4
11.0	13.4	28.7	11.5	13.9	2.9	1.0	26.9	17.2	4.5
12.0	12.7	28.9	11.2	10.8	3.1	1.0	28.2	17.1	4.6
13.0	11.6	29.2	10.5	8.9	3.4	0.9	-	-	-
14.0	10.0	30.2	8.8	7.8	4.2	1.0	-	-	-
15.0	8.9	31.0	7.0	7.3	4.6	1.0	-	-	-

## 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:  $V_{DD} = +5V$ ,  $V_C = +4V$ ,  $I_{DD} = 53mA$  @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	15.4	24.7	18.3	34.6	1.6	0.9	23.1	19.6	9.2
0.4	15.5	24.4	22.7	36.4	1.6	0.9	24.4	19.4	4.8
0.6	15.6	24.4	24.5	38.2	1.6	0.9	24.3	19.7	4.4
0.8	15.6	24.4	25.9	39.3	1.6	0.9	24.6	19.6	4.3
1.0	15.6	24.4	26.7	40.9	1.6	0.9	24.1	19.2	4.2
1.2	15.6	24.5	28.0	46.3	1.6	0.9	24.6	19.8	4.2
1.4	15.6	24.5	28.9	48.9	1.6	0.9	24.6	19.4	4.2
1.6	15.6	24.6	30.0	44.2	1.6	0.9	25.1	20.0	4.2
1.8	15.6	24.7	31.2	39.9	1.6	0.9	25.2	19.6	4.2
2.0	15.6	24.9	31.9	35.9	1.7	0.9	25.5	19.8	4.2
2.2	15.6	25.0	31.7	33.1	1.7	0.9	26.0	19.4	4.2
2.4	15.6	25.1	30.7	31.1	1.7	0.9	25.0	19.5	4.2
2.6	15.5	25.3	29.7	29.6	1.7	0.9	25.4	19.7	4.2
2.8	15.5	25.4	29.0	28.2	1.8	0.9	26.0	19.0	4.3
3.0	15.5	25.5	28.6	26.7	1.8	0.9	26.4	19.4	4.3
3.2	15.5	25.6	27.3	25.1	1.8	0.9	26.7	19.1	4.3
3.4	15.5	25.7	25.7	23.1	1.8	0.9	25.8	19.2	4.2
3.6	15.5	25.9	24.4	21.7	1.9	0.9	27.1	19.0	4.2
3.8	15.5	26.0	23.3	20.1	1.9	0.9	27.7	18.6	4.3
4.0	15.4	26.2	22.6	18.9	1.9	0.9	26.8	18.9	4.3
4.2	15.4	26.4	22.2	17.8	1.9	0.9	27.3	18.5	4.3
4.4	15.3	26.5	21.6	16.6	2.0	0.9	27.8	18.9	4.2
4.6	15.3	26.7	21.1	15.7	2.0	0.9	29.2	18.5	4.2
4.8	15.2	26.8	20.6	14.8	2.0	0.9	27.0	18.7	4.3
5.0	15.1	27.1	20.1	14.0	2.1	0.9	26.3	18.9	4.3
5.2	15.0	27.2	19.4	13.2	2.1	0.9	27.1	18.5	4.2
5.4	14.9	27.4	18.7	12.6	2.2	0.9	26.6	18.5	4.3
5.6	14.9	27.4	18.1	12.1	2.2	0.9	27.2	18.3	4.3
5.8	14.8	27.5	17.6	11.8	2.2	0.9	26.3	18.6	4.2
6.0	14.7	27.6	17.1	11.5	2.2	0.9	26.8	18.1	4.3
6.2	14.7	27.7	16.8	11.4	2.3	0.9	26.1	18.4	4.2
6.4	14.6	27.7	16.5	11.4	2.3	0.9	25.8	18.3	4.2
6.6	14.6	27.7	16.4	11.5	2.3	0.9	25.3	18.3	4.2
6.8	14.5	27.8	16.2	11.7	2.3	0.9	24.8	18.4	4.2
7.0	14.5	27.8	16.0	11.9	2.4	0.9	24.8	18.4	4.2
7.2	14.4	27.8	15.7	12.3	2.4	0.9	24.6	18.6	4.2
7.4	14.4	27.8	15.4	12.7	2.4	0.9	24.9	18.2	4.2
7.6	14.3	27.8	15.0	13.1	2.4	1.0	25.0	18.2	4.2
7.8	14.3	27.7	14.5	13.5	2.4	1.0	24.6	17.9	4.3
8.0	14.2	27.7	14.0	13.7	2.4	1.0	24.9	18.4	4.3
8.2	14.1	27.7	13.5	14.0	2.5	1.0	23.9	17.9	4.3
8.4	14.0	27.8	13.0	14.1	2.5	1.0	24.0	18.1	4.3
8.6	13.9	27.7	12.5	14.4	2.5	1.0	23.7	18.1	4.4
8.8	13.9	27.7	12.1	14.5	2.5	1.0	24.6	17.7	4.3
9.0	13.8	27.7	11.8	14.7	2.5	1.0	25.0	17.9	4.3
9.2	13.7	27.6	11.6	14.8	2.5	1.0	24.1	17.7	4.4
9.4	13.5	27.6	11.5	15.0	2.5	1.0	24.1	17.6	4.4
9.6	13.4	27.6	11.4	15.2	2.6	1.0	24.1	17.6	4.4
9.8	13.3	27.5	11.4	15.4	2.6	1.0	23.4	17.5	4.4
10.0	13.2	27.5	11.4	15.7	2.7	1.0	24.2	17.4	4.4
11.0	12.5	27.6	11.8	14.2	2.9	1.0	24.4	17.2	4.5
12.0	11.8	27.8	11.6	11.1	3.0	1.0	24.6	17.0	4.6
13.0	10.8	28.2	11.0	9.0	3.4	0.9	-	-	-
14.0	9.2	29.3	9.2	7.8	4.1	0.9	-	-	-
15.0	8.0	30.1	7.1	7.0	4.6	1.0	-	-	-



## 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:  $V_{DD} = +5V$ ,  $V_C = +3V$ ,  $I_{DD} = 39mA$  @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	13.4	23.0	20.5	15.8	1.6	0.9	16.0	19.7	10.5
0.4	13.6	22.7	25.4	15.9	1.6	0.9	17.4	20.0	5.1
0.6	13.6	22.7	26.5	16.0	1.6	0.9	17.6	20.0	4.6
0.8	13.6	22.7	26.3	15.9	1.6	0.9	17.6	19.9	4.5
1.0	13.6	22.8	26.0	15.9	1.6	0.9	17.4	19.7	4.5
1.2	13.6	22.9	25.4	15.8	1.6	0.9	17.7	19.9	4.5
1.4	13.6	23.0	24.9	15.7	1.6	0.9	18.0	19.9	4.4
1.6	13.6	23.1	24.5	15.6	1.7	0.9	18.3	20.2	4.4
1.8	13.6	23.2	24.2	15.5	1.7	0.9	17.8	20.2	4.4
2.0	13.6	23.3	23.9	15.4	1.7	0.9	17.9	20.2	4.4
2.2	13.5	23.4	24.1	15.3	1.7	0.9	18.5	19.7	4.4
2.4	13.5	23.5	24.6	15.2	1.7	0.9	17.8	20.2	4.5
2.6	13.5	23.6	25.6	15.3	1.8	0.9	18.4	20.1	4.5
2.8	13.4	23.7	26.4	15.4	1.8	0.9	18.7	19.7	4.5
3.0	13.5	23.8	26.7	15.4	1.8	0.9	18.3	20.0	4.5
3.2	13.5	23.9	27.5	15.3	1.8	0.9	19.2	19.6	4.5
3.4	13.5	24.0	28.3	15.2	1.8	0.9	18.6	20.1	4.5
3.6	13.5	24.1	28.5	15.0	1.9	0.9	19.3	19.6	4.5
3.8	13.4	24.3	27.7	14.6	1.9	0.9	19.2	19.1	4.5
4.0	13.4	24.4	26.4	14.1	1.9	0.9	19.1	19.3	4.5
4.2	13.3	24.6	24.9	13.5	2.0	0.9	18.7	18.7	4.5
4.4	13.2	24.7	23.2	12.8	2.0	0.9	18.9	19.4	4.5
4.6	13.1	24.9	21.7	12.1	2.0	0.9	20.0	18.8	4.5
4.8	13.0	25.0	20.3	11.4	2.1	0.9	19.2	19.1	4.5
5.0	12.9	25.3	19.1	10.7	2.1	0.9	18.7	19.4	4.5
5.2	12.8	25.4	18.1	10.1	2.1	0.9	19.1	18.9	4.5
5.4	12.6	25.6	17.2	9.6	2.2	0.9	18.5	18.8	4.5
5.6	12.5	25.7	16.4	9.2	2.2	0.9	19.4	18.6	4.5
5.8	12.4	25.8	15.8	9.0	2.2	0.9	18.7	18.9	4.4
6.0	12.4	25.9	15.3	8.8	2.2	0.9	20.3	18.3	4.4
6.2	12.3	25.9	15.0	8.6	2.3	0.9	18.9	18.7	4.4
6.4	12.2	26.0	14.9	8.6	2.3	0.9	18.9	18.6	4.4
6.6	12.2	26.1	14.8	8.7	2.3	0.9	19.7	18.6	4.4
6.8	12.1	26.0	14.8	8.8	2.3	0.9	19.2	18.8	4.4
7.0	12.1	26.0	14.8	9.0	2.4	0.9	19.6	18.9	4.4
7.2	12.1	26.0	14.8	9.3	2.4	0.9	19.6	18.9	4.4
7.4	12.0	26.0	14.7	9.6	2.4	0.9	19.7	18.6	4.4
7.6	12.0	25.9	14.5	9.9	2.4	0.9	21.0	18.6	4.4
7.8	11.9	25.9	14.2	10.2	2.4	0.9	20.5	18.4	4.5
8.0	11.9	25.9	13.9	10.4	2.5	0.9	20.1	18.9	4.5
8.2	11.8	25.9	13.4	10.6	2.5	0.9	19.6	18.5	4.5
8.4	11.7	25.8	13.0	10.9	2.5	0.9	20.0	18.8	4.5
8.6	11.7	25.9	12.6	11.1	2.5	1.0	19.7	18.7	4.5
8.8	11.6	25.8	12.2	11.2	2.5	1.0	20.9	18.4	4.5
9.0	11.6	25.7	11.9	11.3	2.5	1.0	22.2	18.4	4.5
9.2	11.5	25.7	11.7	11.5	2.5	1.0	20.9	18.4	4.5
9.4	11.4	25.7	11.6	11.7	2.5	1.0	21.8	18.3	4.6
9.6	11.3	25.6	11.5	11.9	2.5	1.0	21.5	18.1	4.6
9.8	11.2	25.6	11.5	12.2	2.6	1.0	20.7	18.3	4.6
10.0	11.1	25.5	11.6	12.5	2.6	1.0	21.0	17.8	4.6
11.0	10.5	25.6	12.1	12.9	2.8	1.0	19.4	17.5	4.7
12.0	10.0	25.8	12.1	10.7	3.0	1.0	19.5	17.3	4.8
13.0	9.1	26.2	11.9	8.5	3.3	0.9	-	-	-
14.0	7.4	27.4	9.9	7.2	4.0	0.9	-	-	-
15.0	6.1	28.4	7.4	6.2	4.5	0.9	-	-	-

## 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:  $V_{DD} = +5V$ ,  $V_C = +2V$ ,  $I_{DD} = 28mA$  @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	9.9	21.0	15.5	8.1	1.7	0.8	9.7	19.7	13.2
0.4	10.1	20.7	15.3	8.3	1.6	0.8	10.6	20.1	6.1
0.6	10.2	20.7	15.1	8.3	1.6	0.8	10.8	20.0	5.4
0.8	10.2	20.8	15.0	8.4	1.6	0.8	10.8	19.9	5.3
1.0	10.1	20.8	14.9	8.4	1.7	0.8	10.7	19.6	5.2
1.2	10.1	20.9	14.7	8.4	1.7	0.8	10.9	19.8	5.2
1.4	10.1	21.0	14.6	8.5	1.7	0.8	11.1	19.9	5.1
1.6	10.0	21.1	14.6	8.4	1.7	0.8	11.3	20.2	5.1
1.8	10.0	21.2	14.6	8.5	1.8	0.8	11.0	20.3	5.1
2.0	9.9	21.4	14.6	8.4	1.8	0.8	11.0	20.1	5.2
2.2	9.9	21.4	14.7	8.5	1.8	0.8	11.5	19.7	5.2
2.4	9.9	21.6	14.9	8.5	1.8	0.8	11.0	20.2	5.2
2.6	9.8	21.6	15.3	8.6	1.9	0.8	11.4	20.1	5.2
2.8	9.8	21.7	15.6	8.7	1.9	0.8	11.6	20.0	5.3
3.0	9.8	21.8	15.8	8.7	1.9	0.8	11.4	20.1	5.3
3.2	9.8	21.8	16.1	8.8	1.9	0.8	11.9	20.1	5.2
3.4	9.8	21.9	16.4	8.8	2.0	0.8	11.5	20.4	5.2
3.6	9.8	22.0	16.8	8.9	2.0	0.8	12.0	19.9	5.2
3.8	9.7	22.1	17.0	8.8	2.0	0.8	11.8	19.8	5.2
4.0	9.7	22.2	17.1	8.7	2.0	0.8	11.7	19.7	5.2
4.2	9.5	22.4	16.9	8.5	2.1	0.8	11.4	19.4	5.2
4.4	9.4	22.5	16.5	8.2	2.1	0.8	11.6	20.1	5.1
4.6	9.3	22.7	16.0	7.9	2.2	0.8	12.2	19.4	5.1
4.8	9.1	22.9	15.4	7.6	2.2	0.8	11.4	19.8	5.1
5.0	8.9	23.1	14.8	7.2	2.3	0.8	11.3	20.2	5.2
5.2	8.7	23.4	14.2	6.9	2.3	0.8	11.4	19.6	5.2
5.4	8.5	23.5	13.6	6.6	2.4	0.8	11.0	19.5	5.1
5.6	8.3	23.6	13.2	6.4	2.4	0.8	11.5	19.4	5.2
5.8	8.2	23.8	12.8	6.2	2.4	0.8	11.1	19.6	5.2
6.0	8.1	23.8	12.5	6.1	2.5	0.8	11.8	18.9	5.1
6.2	8.0	23.9	12.4	6.0	2.5	0.7	11.1	19.3	5.1
6.4	7.9	24.0	12.3	6.0	2.5	0.7	11.0	19.3	5.1
6.6	7.8	24.0	12.3	6.0	2.6	0.8	11.2	19.2	5.1
6.8	7.8	24.0	12.5	6.1	2.6	0.8	11.0	19.5	5.1
7.0	7.7	24.0	12.6	6.2	2.7	0.8	11.1	19.8	5.2
7.2	7.7	24.0	12.7	6.4	2.7	0.8	11.0	19.5	5.2
7.4	7.6	24.0	12.9	6.6	2.8	0.8	11.0	19.3	5.1
7.6	7.6	24.0	12.9	6.8	2.8	0.8	11.6	19.3	5.1
7.8	7.5	23.9	12.9	7.0	2.8	0.8	11.3	19.2	5.2
8.0	7.5	23.9	12.8	7.2	2.9	0.8	11.2	19.8	5.2
8.2	7.4	23.9	12.7	7.4	2.9	0.8	10.9	19.4	5.2
8.4	7.3	23.9	12.5	7.5	2.9	0.8	11.0	19.7	5.3
8.6	7.3	23.9	12.2	7.7	3.0	0.9	10.9	19.6	5.2
8.8	7.2	23.8	11.9	7.7	3.0	0.9	11.3	19.4	5.2
9.0	7.2	23.8	11.7	7.8	3.0	0.9	11.6	19.1	5.2
9.2	7.1	23.7	11.6	7.8	3.0	0.9	11.2	19.5	5.2
9.4	7.1	23.7	11.5	8.0	3.0	0.9	11.5	19.2	5.3
9.6	7.0	23.7	11.4	8.1	3.0	0.9	11.4	18.8	5.3
9.8	6.9	23.6	11.5	8.3	3.1	0.9	11.4	19.3	5.3
10.0	6.8	23.6	11.5	8.5	3.1	0.9	11.8	18.3	5.3
11.0	6.3	23.6	12.3	9.6	3.5	0.9	11.0	19.4	5.5
12.0	5.8	23.8	12.9	8.7	3.7	0.9	11.3	19.1	5.6
13.0	4.9	24.0	13.6	7.1	3.9	0.8	-	-	-
14.0	3.2	25.1	11.4	6.0	4.8	0.8	-	-	-
15.0	1.7	26.0	8.2	4.9	5.3	0.8	-	-	-

## Typical Performance Data

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

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS:  $V_{DD} = +5V$ ,  $V_C = +1V$ ,  $I_{DD} = 11mA$  @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	8.3	19.2	9.7	6.4	1.5	0.7	12.4	19.0	16.5
0.4	8.3	19.2	9.9	6.4	1.5	0.7	12.8	19.6	6.6
0.6	8.3	19.2	10.0	6.5	1.5	0.7	12.6	19.7	5.5
0.8	8.2	19.3	10.0	6.5	1.6	0.7	12.7	19.5	5.3
1.0	8.1	19.3	10.0	6.5	1.6	0.7	12.6	19.1	5.4
1.2	8.1	19.5	9.9	6.6	1.6	0.7	12.9	19.5	5.4
1.4	8.0	19.6	10.0	6.6	1.6	0.7	12.9	19.4	5.3
1.6	7.9	19.7	10.0	6.6	1.7	0.7	13.0	19.8	5.4
1.8	7.8	19.8	10.1	6.6	1.7	0.7	12.9	20.0	5.3
2.0	7.8	19.9	10.1	6.7	1.7	0.7	13.1	19.7	5.3
2.2	7.7	19.9	10.3	6.7	1.8	0.7	13.5	19.3	5.3
2.4	7.6	20.0	10.5	6.8	1.8	0.7	13.2	19.8	5.4
2.6	7.6	20.1	10.8	6.9	1.8	0.7	13.5	19.7	5.4
2.8	7.5	20.1	11.1	7.0	1.9	0.8	13.5	19.6	5.5
3.0	7.5	20.2	11.3	7.0	1.9	0.8	13.7	19.8	5.5
3.2	7.4	20.3	11.5	7.0	1.9	0.8	14.0	19.9	5.4
3.4	7.4	20.3	11.7	7.1	1.9	0.8	13.9	20.2	5.4
3.6	7.4	20.4	12.0	7.2	2.0	0.8	14.3	19.9	5.4
3.8	7.3	20.5	12.1	7.2	2.0	0.8	14.3	19.6	5.4
4.0	7.1	20.6	12.2	7.1	2.1	0.8	14.2	19.5	5.3
4.2	7.0	20.8	12.1	7.0	2.1	0.8	14.1	19.4	5.3
4.4	6.8	21.0	12.0	6.8	2.2	0.8	14.6	19.9	5.3
4.6	6.6	21.2	11.7	6.6	2.3	0.8	14.7	19.6	5.4
4.8	6.3	21.5	11.4	6.3	2.3	0.8	14.8	19.9	5.4
5.0	6.0	21.7	11.1	6.0	2.4	0.7	15.0	20.3	5.4
5.2	5.8	21.9	10.9	5.8	2.5	0.7	15.2	19.5	5.4
5.4	5.5	22.2	10.6	5.5	2.6	0.7	15.3	19.3	5.4
5.6	5.3	22.4	10.4	5.3	2.7	0.7	15.9	19.3	5.5
5.8	5.1	22.6	10.2	5.2	2.7	0.7	16.0	19.6	5.5
6.0	4.9	22.8	10.2	5.1	2.8	0.7	16.6	19.3	5.4
6.2	4.7	22.9	10.2	5.0	2.9	0.7	16.8	19.4	5.5
6.4	4.6	23.0	10.2	5.0	3.0	0.7	16.8	19.3	5.4
6.6	4.5	23.2	10.4	5.0	3.1	0.7	17.2	19.1	5.6
6.8	4.4	23.2	10.6	5.1	3.2	0.7	17.8	19.6	5.5
7.0	4.3	23.3	10.8	5.2	3.3	0.7	18.4	19.7	5.6
7.2	4.2	23.4	11.0	5.3	3.4	0.7	19.5	19.7	5.6
7.4	4.1	23.4	11.3	5.4	3.5	0.7	20.4	19.3	5.6
7.6	4.0	23.5	11.4	5.6	3.6	0.7	19.0	19.3	5.6
7.8	3.9	23.6	11.5	5.7	3.7	0.8	20.3	19.4	5.7
8.0	3.8	23.7	11.5	5.9	3.8	0.8	20.8	19.6	5.8
8.2	3.7	23.7	11.5	6.0	3.9	0.8	19.4	19.9	5.8
8.4	3.6	23.8	11.3	6.1	4.0	0.8	19.8	19.6	5.9
8.6	3.5	23.9	11.2	6.2	4.2	0.8	19.0	19.7	5.8
8.8	3.4	23.9	11.1	6.2	4.2	0.8	19.3	19.5	5.9
9.0	3.3	23.9	11.0	6.2	4.3	0.8	19.6	19.3	5.9
9.2	3.2	23.9	10.9	6.3	4.3	0.8	18.1	19.9	6.0
9.4	3.1	24.0	10.9	6.4	4.4	0.8	18.0	19.3	5.9
9.6	3.0	24.0	11.0	6.5	4.5	0.8	17.8	19.4	6.1
9.8	2.9	24.0	11.1	6.6	4.6	0.8	17.1	19.4	6.1
10.0	2.8	24.0	11.2	6.8	4.8	0.8	18.0	18.8	6.2
11.0	2.2	24.2	12.3	7.9	5.6	0.9	14.1	19.8	6.5
12.0	1.5	24.3	13.3	7.5	6.1	0.9	14.9	19.4	6.7
13.0	0.4	24.3	14.2	6.2	6.5	0.8	-	-	-
14.0	-1.5	25.3	11.7	5.3	8.1	0.8	-	-	-
15.0	-3.3	25.9	8.7	4.3	8.9	0.7	-	-	-

## Typical Performance Data

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

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS:  $V_{DD} = +5V$ ,  $V_C = +0.8V$ ,  $I_{DD} = 3mA$  @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	6.0	18.5	7.7	5.1	1.6	0.7	9.9	18.8	16.7
0.4	5.9	18.5	7.9	5.1	1.6	0.6	10.1	19.5	6.9
0.6	5.9	18.5	8.0	5.2	1.6	0.7	10.1	19.5	5.9
0.8	5.8	18.6	8.0	5.2	1.6	0.7	10.1	19.3	5.8
1.0	5.7	18.7	8.0	5.2	1.7	0.7	10.1	18.9	5.8
1.2	5.6	18.8	8.0	5.2	1.7	0.7	10.3	19.4	5.8
1.4	5.4	19.0	8.1	5.3	1.8	0.7	10.2	19.2	5.7
1.6	5.3	19.1	8.2	5.3	1.8	0.7	10.3	19.7	5.8
1.8	5.1	19.3	8.3	5.3	1.9	0.7	10.3	19.9	5.8
2.0	5.0	19.4	8.4	5.4	1.9	0.7	10.3	19.6	5.8
2.2	4.9	19.5	8.6	5.4	2.0	0.7	10.1	19.0	5.8
2.4	4.8	19.5	8.8	5.4	2.0	0.7	10.0	19.7	5.8
2.6	4.7	19.6	9.1	5.5	2.1	0.7	9.9	19.6	6.0
2.8	4.5	19.7	9.4	5.5	2.2	0.7	9.9	19.5	6.0
3.0	4.4	19.8	9.6	5.5	2.2	0.7	9.9	19.6	6.0
3.2	4.4	19.8	9.8	5.6	2.3	0.7	9.8	19.7	6.0
3.4	4.3	19.9	9.9	5.6	2.3	0.7	9.7	20.2	6.0
3.6	4.1	20.0	10.1	5.6	2.4	0.7	9.6	19.7	6.0
3.8	4.0	20.2	10.3	5.6	2.5	0.7	9.4	19.5	6.1
4.0	3.7	20.4	10.3	5.6	2.6	0.7	9.3	19.3	6.1
4.2	3.5	20.6	10.3	5.5	2.7	0.7	8.2	19.2	6.1
4.4	3.2	20.9	10.2	5.4	2.8	0.7	9.1	19.8	6.1
4.6	2.9	21.1	10.1	5.2	3.0	0.7	9.1	19.5	6.1
4.8	2.5	21.5	9.9	5.0	3.1	0.7	8.8	19.8	6.3
5.0	2.1	21.8	9.8	4.8	3.3	0.7	8.8	20.2	6.4
5.2	1.8	22.1	9.6	4.6	3.5	0.7	8.6	19.4	6.5
5.4	1.4	22.4	9.5	4.5	3.6	0.7	8.6	19.2	6.4
5.6	1.1	22.7	9.4	4.3	3.8	0.7	8.6	19.1	6.6
5.8	0.8	22.9	9.3	4.2	4.0	0.7	8.4	19.4	6.6
6.0	0.6	23.1	9.4	4.2	4.2	0.7	8.5	19.1	6.8
6.2	0.4	23.4	9.5	4.1	4.4	0.7	8.4	19.1	6.8
6.4	0.1	23.5	9.6	4.1	4.6	0.7	8.3	19.1	6.7
6.6	0.0	23.7	9.8	4.2	4.8	0.7	8.3	18.9	6.9
6.8	-0.2	23.8	10.1	4.2	5.0	0.7	8.1	19.6	6.8
7.0	-0.3	23.9	10.3	4.3	5.3	0.7	8.1	19.7	7.2
7.2	-0.5	24.1	10.6	4.4	5.5	0.7	7.9	19.7	7.2
7.4	-0.6	24.1	10.8	4.6	5.8	0.7	7.8	19.2	7.2
7.6	-0.8	24.3	11.0	4.7	6.1	0.7	8.1	19.2	7.2
7.8	-0.9	24.4	11.1	4.9	6.4	0.7	7.9	19.3	7.5
8.0	-1.1	24.4	11.1	5.0	6.7	0.7	7.8	19.6	7.5
8.2	-1.2	24.5	11.1	5.1	6.9	0.7	7.6	19.9	7.6
8.4	-1.4	24.7	11.0	5.2	7.2	0.7	7.6	19.6	7.9
8.6	-1.5	24.8	10.9	5.3	7.5	0.8	7.5	19.9	7.6
8.8	-1.7	24.8	10.8	5.3	7.6	0.8	7.7	19.7	7.9
9.0	-1.8	24.9	10.8	5.4	7.8	0.8	7.8	19.5	7.9
9.2	-1.9	24.9	10.8	5.4	8.0	0.8	7.5	20.1	8.0
9.4	-2.0	24.9	10.8	5.5	8.2	0.8	7.6	19.4	7.9
9.6	-2.2	25.0	10.9	5.6	8.5	0.8	7.6	19.5	8.2
9.8	-2.3	25.0	11.0	5.8	8.7	0.8	7.5	19.8	8.4
10.0	-2.4	25.0	11.1	5.9	9.1	0.8	7.7	19.1	8.6
11.0	-3.2	25.2	12.2	7.0	11.1	0.8	7.2	19.9	8.9
12.0	-4.1	25.1	13.3	6.7	12.0	0.8	7.4	18.9	9.4
13.0	-5.2	24.9	13.9	5.7	12.6	0.8	-	-	-
14.0	-7.2	25.8	11.2	4.9	15.7	0.7	-	-	-
15.0	-9.1	26.1	8.5	4.0	16.9	0.7	-	-	-

## Typical Performance Data

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

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS:  $V_{DD} = +5V$ ,  $V_C = +5V$ ,  $I_{DD} = 61mA$  @ Temperature =  $-45^{\circ}C$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	16.1	26.1	15.5	26.0	1.7	0.9	28.0	19.6	8.0
0.4	16.3	25.7	17.9	26.0	1.7	0.9	25.3	18.8	4.0
0.6	16.4	25.6	18.9	24.1	1.6	0.9	29.5	19.5	3.6
0.8	16.5	25.6	19.9	23.0	1.6	0.9	27.3	19.3	3.5
1.0	16.5	25.5	20.5	22.3	1.6	0.9	28.7	18.7	3.4
1.2	16.6	25.6	21.0	21.5	1.6	0.9	29.2	19.7	3.4
1.4	16.6	25.6	21.4	21.4	1.6	0.9	30.1	18.9	3.3
1.6	16.7	25.7	21.6	21.0	1.6	0.9	28.9	19.7	3.4
1.8	16.7	25.8	21.8	21.4	1.6	0.9	29.0	19.0	3.4
2.0	16.7	25.9	21.9	21.2	1.6	0.9	29.9	19.3	3.4
2.2	16.7	25.9	21.6	21.4	1.6	0.9	30.0	19.0	3.4
2.4	16.7	26.1	21.1	21.1	1.7	0.9	30.1	19.0	3.4
2.6	16.7	26.2	20.6	20.7	1.7	0.9	30.8	19.2	3.4
2.8	16.6	26.3	20.1	20.4	1.7	0.9	30.4	18.6	3.5
3.0	16.7	26.5	20.2	20.3	1.7	0.9	35.2	18.9	3.5
3.2	16.7	26.6	20.1	20.1	1.8	0.9	31.0	18.6	3.5
3.4	16.7	26.7	19.5	19.3	1.8	0.9	31.2	18.7	3.4
3.6	16.8	26.8	19.2	18.9	1.8	0.9	32.0	18.6	3.4
3.8	16.7	27.0	18.9	18.1	1.8	0.9	30.2	18.3	3.4
4.0	16.7	27.1	18.6	17.6	1.8	0.9	29.6	18.5	3.5
4.2	16.7	27.3	18.6	17.0	1.9	0.9	28.9	18.2	3.4
4.4	16.7	27.4	18.7	16.3	1.9	0.9	28.6	18.5	3.4
4.6	16.6	27.6	18.8	15.8	1.9	0.9	27.8	18.2	3.4
4.8	16.6	27.9	18.9	15.2	2.0	0.9	26.1	18.3	3.5
5.0	16.5	28.1	19.1	14.6	2.0	0.9	26.1	18.5	3.5
5.2	16.4	28.2	19.3	14.0	2.1	0.9	25.6	18.2	3.5
5.4	16.3	28.4	19.0	13.5	2.1	0.9	24.6	18.2	3.4
5.6	16.3	28.5	18.6	13.0	2.1	0.9	25.1	18.2	3.4
5.8	16.2	28.6	18.5	12.7	2.2	0.9	24.2	18.3	3.3
6.0	16.2	28.6	18.5	12.4	2.1	0.9	24.8	18.0	3.4
6.2	16.2	28.7	18.5	12.2	2.2	0.9	23.7	18.2	3.4
6.4	16.2	28.8	18.2	12.1	2.2	0.9	23.3	18.2	3.4
6.6	16.2	28.8	18.0	12.1	2.2	0.9	23.4	18.2	3.4
6.8	16.2	28.8	17.6	12.2	2.2	0.9	22.8	18.3	3.3
7.0	16.1	28.8	17.2	12.4	2.2	0.9	23.2	18.2	3.3
7.2	16.1	28.8	16.7	12.7	2.2	0.9	23.1	18.3	3.4
7.4	16.1	28.8	16.2	13.2	2.2	0.9	22.6	17.9	3.3
7.6	16.0	28.6	15.6	13.6	2.2	1.0	23.5	18.1	3.4
7.8	16.0	28.7	14.9	14.0	2.3	1.0	23.6	17.8	3.4
8.0	15.9	28.7	14.4	14.4	2.3	1.0	23.6	18.2	3.4
8.2	15.9	28.6	13.8	14.7	2.3	1.0	22.2	17.8	3.4
8.4	15.8	28.6	13.2	14.8	2.3	1.0	22.6	17.8	3.4
8.6	15.7	28.6	12.6	14.9	2.3	1.0	22.9	18.0	3.5
8.8	15.6	28.5	12.1	14.9	2.2	1.0	23.4	17.5	3.5
9.0	15.5	28.5	11.7	14.8	2.3	1.0	24.0	17.9	3.5
9.2	15.4	28.5	11.4	14.5	2.3	1.0	22.8	17.5	3.5
9.4	15.3	28.4	11.1	14.4	2.3	1.0	23.3	17.5	3.5
9.6	15.2	28.4	11.0	14.2	2.3	1.0	23.2	17.6	3.5
9.8	15.0	28.3	11.0	14.1	2.3	1.0	22.8	17.4	3.5
10.0	14.9	28.3	11.1	14.1	2.3	1.0	24.0	17.3	3.5
11.0	14.3	28.1	11.3	13.1	2.5	1.0	23.4	17.0	3.6
12.0	13.6	28.2	11.3	10.2	2.5	1.0	24.9	16.8	3.6
13.0	12.6	28.4	10.4	7.7	2.7	0.9	-	-	-
14.0	11.1	29.2	8.6	6.5	3.0	0.9	-	-	-
15.0	10.2	29.8	7.1	6.6	3.3	1.0	-	-	-

## 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:  $V_{DD} = +5V$ ,  $V_C = +4V$ ,  $I_{DD} = 50mA$  @ Temperature =  $-45^{\circ}C$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	15.1	25.0	17.7	26.5	1.7	0.9	23.0	19.6	8.9
0.4	15.3	24.7	22.1	25.8	1.6	0.9	21.9	19.0	4.1
0.6	15.4	24.6	24.2	27.1	1.6	0.9	23.8	19.6	3.7
0.8	15.4	24.5	26.1	27.2	1.6	0.9	24.6	19.5	3.6
1.0	15.5	24.5	27.3	28.6	1.6	0.9	23.8	18.8	3.5
1.2	15.6	24.5	28.4	29.5	1.6	0.9	24.4	19.8	3.6
1.4	15.6	24.6	28.9	31.5	1.6	0.9	25.0	18.9	3.5
1.6	15.6	24.6	29.3	34.9	1.6	0.9	24.9	19.9	3.5
1.8	15.6	24.7	29.8	38.3	1.6	0.9	23.9	19.1	3.5
2.0	15.7	24.8	30.0	41.8	1.6	0.9	25.3	19.6	3.5
2.2	15.7	24.9	29.2	34.7	1.7	0.9	24.9	19.0	3.5
2.4	15.7	25.0	28.2	29.9	1.7	0.9	25.0	18.9	3.4
2.6	15.7	25.1	26.8	27.7	1.7	0.9	25.4	19.3	3.5
2.8	15.6	25.3	25.7	25.1	1.7	0.9	25.2	18.5	3.6
3.0	15.6	25.4	25.8	24.1	1.8	0.9	25.5	18.9	3.5
3.2	15.7	25.5	25.6	22.4	1.8	0.9	25.5	18.6	3.6
3.4	15.7	25.6	24.3	21.1	1.8	0.9	25.2	18.8	3.6
3.6	15.7	25.8	23.7	20.0	1.8	0.9	25.5	18.4	3.5
3.8	15.7	25.9	23.1	18.8	1.8	0.9	24.7	18.2	3.5
4.0	15.7	26.0	22.5	17.9	1.8	0.9	25.2	18.4	3.6
4.2	15.6	26.2	22.1	16.7	1.9	0.9	24.8	18.0	3.5
4.4	15.6	26.4	21.8	15.8	1.9	0.9	24.3	18.4	3.5
4.6	15.5	26.5	21.6	14.9	1.9	0.9	25.5	18.0	3.5
4.8	15.4	26.7	21.2	14.1	2.0	0.9	24.1	18.2	3.5
5.0	15.3	27.0	20.9	13.3	2.0	0.9	23.2	18.5	3.5
5.2	15.2	27.2	20.2	12.6	2.1	0.9	23.4	18.2	3.6
5.4	15.1	27.3	19.5	12.0	2.1	0.9	22.5	18.1	3.5
5.6	15.0	27.4	18.6	11.5	2.1	0.9	22.6	18.0	3.5
5.8	15.0	27.5	18.3	11.1	2.1	0.9	22.0	18.3	3.5
6.0	15.0	27.6	18.1	10.8	2.1	0.9	22.3	17.9	3.5
6.2	15.0	27.6	18.0	10.6	2.1	0.9	21.5	18.1	3.4
6.4	15.0	27.6	17.6	10.4	2.1	0.9	20.8	18.1	3.4
6.6	15.0	27.6	17.4	10.4	2.2	0.9	20.6	18.1	3.4
6.8	14.9	27.7	17.2	10.5	2.2	0.9	20.2	18.2	3.4
7.0	14.9	27.7	16.8	10.6	2.2	0.9	20.3	18.1	3.4
7.2	14.9	27.6	16.4	10.9	2.2	0.9	20.0	18.3	3.4
7.4	14.8	27.6	16.1	11.2	2.2	0.9	20.0	17.9	3.4
7.6	14.8	27.5	15.6	11.6	2.2	0.9	20.7	17.9	3.4
7.8	14.8	27.4	15.0	12.0	2.2	0.9	20.2	17.7	3.5
8.0	14.8	27.4	14.5	12.4	2.2	0.9	20.4	18.2	3.5
8.2	14.7	27.3	14.0	12.7	2.2	1.0	19.5	17.8	3.5
8.4	14.6	27.3	13.4	13.0	2.2	1.0	19.6	17.9	3.5
8.6	14.5	27.3	12.9	13.2	2.2	1.0	19.8	18.0	3.5
8.8	14.5	27.2	12.4	13.3	2.2	1.0	20.2	17.6	3.5
9.0	14.4	27.2	11.9	13.4	2.2	1.0	20.5	18.0	3.5
9.2	14.3	27.2	11.7	13.3	2.2	1.0	19.6	17.7	3.5
9.4	14.2	27.1	11.4	13.2	2.2	1.0	20.0	17.7	3.5
9.6	14.1	27.2	11.3	13.1	2.2	1.0	19.7	17.6	3.6
9.8	14.0	27.1	11.2	13.1	2.2	1.0	19.3	17.6	3.6
10.0	13.9	27.0	11.3	13.2	2.2	1.0	20.0	17.3	3.5
11.0	13.4	26.8	11.6	13.0	2.3	1.0	19.7	16.9	3.6
12.0	12.8	26.9	11.8	10.4	2.4	1.0	20.6	16.7	3.6
13.0	11.8	27.2	11.1	7.8	2.5	0.9	-	-	-
14.0	10.4	28.1	9.1	6.5	2.9	0.9	-	-	-
15.0	9.4	28.8	7.3	6.4	3.2	0.9	-	-	-



## 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:  $V_{DD} = +5V$ ,  $V_C = +3V$ ,  $I_{DD} = 38mA$  @ Temperature =  $-45^{\circ}C$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	12.6	22.9	20.9	12.2	1.7	0.9	13.6	19.8	10.7
0.4	12.8	22.7	26.6	12.3	1.7	0.8	14.0	20.1	4.7
0.6	12.8	22.6	26.0	12.7	1.7	0.8	14.7	20.2	4.2
0.8	12.8	22.7	24.5	12.9	1.7	0.8	14.6	19.9	4.1
1.0	12.9	22.7	23.6	13.1	1.7	0.8	14.5	19.7	4.0
1.2	12.9	22.7	23.0	13.4	1.7	0.9	14.7	20.1	3.9
1.4	12.9	22.8	22.6	13.5	1.7	0.9	15.2	19.9	3.9
1.6	13.0	22.8	22.5	13.8	1.7	0.9	15.4	20.5	3.9
1.8	13.0	22.9	22.5	13.7	1.7	0.9	14.2	20.2	3.9
2.0	13.0	23.0	22.4	13.7	1.7	0.9	15.2	20.4	3.9
2.2	13.0	23.0	23.0	13.6	1.7	0.9	15.3	19.6	3.9
2.4	13.0	23.1	23.7	13.5	1.7	0.9	15.1	20.3	4.0
2.6	13.0	23.2	24.9	13.6	1.8	0.9	15.7	20.2	3.9
2.8	13.0	23.3	25.9	13.4	1.8	0.9	15.9	18.9	4.0
3.0	13.0	23.4	26.0	13.3	1.8	0.9	15.6	20.1	4.0
3.2	13.0	23.5	26.5	12.9	1.8	0.9	16.4	18.8	4.0
3.4	13.0	23.6	28.0	12.8	1.8	0.9	15.4	19.5	3.9
3.6	13.0	23.7	28.5	12.6	1.8	0.9	16.0	18.7	3.9
3.8	13.0	23.9	28.4	12.3	1.9	0.9	15.9	18.4	3.9
4.0	13.0	24.0	27.4	12.0	1.9	0.9	15.8	18.7	3.9
4.2	12.9	24.1	26.2	11.5	1.9	0.9	15.6	18.1	3.9
4.4	12.8	24.3	24.4	11.0	1.9	0.9	15.7	18.8	3.9
4.6	12.7	24.5	22.9	10.5	2.0	0.9	16.7	18.1	3.9
4.8	12.6	24.7	21.3	10.0	2.0	0.9	15.7	18.5	3.9
5.0	12.4	25.0	19.8	9.5	2.1	0.9	15.3	18.8	4.0
5.2	12.2	25.2	18.4	9.1	2.1	0.8	15.5	18.4	4.0
5.4	12.1	25.4	17.4	8.7	2.2	0.8	14.8	18.2	3.9
5.6	12.0	25.4	16.4	8.3	2.2	0.8	15.8	18.0	3.9
5.8	12.0	25.4	16.0	8.0	2.2	0.8	15.2	18.4	3.9
6.0	11.9	25.5	15.6	7.7	2.2	0.8	16.5	17.7	3.8
6.2	11.9	25.5	15.4	7.6	2.2	0.8	15.4	18.2	3.8
6.4	11.8	25.6	15.2	7.4	2.2	0.8	15.2	18.2	3.8
6.6	11.8	25.6	15.2	7.4	2.2	0.8	15.8	18.1	3.8
6.8	11.8	25.6	15.1	7.5	2.2	0.8	15.3	18.4	3.8
7.0	11.8	25.6	15.0	7.6	2.2	0.8	15.5	18.5	3.8
7.2	11.7	25.5	14.9	7.7	2.2	0.8	15.3	18.5	3.8
7.4	11.7	25.4	14.8	8.0	2.2	0.8	15.3	18.3	3.8
7.6	11.7	25.4	14.7	8.2	2.2	0.8	16.5	18.2	3.8
7.8	11.7	25.3	14.4	8.5	2.2	0.9	15.9	18.0	3.8
8.0	11.7	25.2	14.2	8.8	2.2	0.9	15.6	18.7	3.8
8.2	11.7	25.1	14.0	9.1	2.2	0.9	15.3	18.1	3.8
8.4	11.7	25.0	13.6	9.4	2.2	0.9	15.7	18.5	3.9
8.6	11.6	24.9	13.1	9.6	2.2	0.9	15.5	18.4	3.9
8.8	11.6	24.9	12.7	9.7	2.2	0.9	16.5	18.1	3.9
9.0	11.5	24.8	12.3	9.9	2.2	0.9	16.9	18.3	3.9
9.2	11.5	24.8	11.9	9.9	2.2	0.9	16.1	18.3	3.9
9.4	11.4	24.7	11.7	10.0	2.2	0.9	16.7	18.3	3.9
9.6	11.3	24.7	11.5	10.0	2.2	0.9	16.6	18.1	3.9
9.8	11.2	24.6	11.4	10.1	2.2	0.9	16.5	18.4	3.9
10.0	11.2	24.6	11.5	10.2	2.2	1.0	16.7	17.7	3.9
11.0	10.8	24.3	12.0	11.1	2.3	1.0	15.2	17.3	3.9
12.0	10.4	24.4	12.7	9.9	2.4	0.9	15.7	17.1	4.0
13.0	9.6	24.7	12.7	7.5	2.5	0.9	-	-	-
14.0	8.1	25.6	10.5	5.9	2.8	0.8	-	-	-
15.0	6.9	26.5	7.8	5.4	3.1	0.9	-	-	-

## 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:  $V_{DD} = +5V$ ,  $V_C = +2V$ ,  $I_{DD} = 28mA$  @ Temperature =  $-45^{\circ}C$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	8.8	20.9	15.3	6.7	1.7	0.7	8.5	19.9	14.1
0.4	9.0	20.6	15.1	6.9	1.7	0.7	9.1	20.3	5.8
0.6	9.0	20.7	14.7	7.2	1.7	0.7	9.2	20.2	5.1
0.8	9.0	20.8	14.4	7.3	1.8	0.7	9.2	20.1	5.0
1.0	9.0	20.9	14.2	7.5	1.8	0.8	9.2	19.8	4.9
1.2	8.9	20.9	14.0	7.6	1.8	0.8	9.4	20.1	4.9
1.4	8.9	21.0	13.9	7.7	1.9	0.8	9.3	20.2	4.8
1.6	8.9	21.0	13.9	7.8	1.9	0.8	9.7	20.5	4.8
1.8	8.9	21.1	13.9	7.8	1.9	0.8	9.4	20.6	4.8
2.0	9.0	21.1	13.9	7.8	1.9	0.8	9.5	20.4	4.8
2.2	9.0	21.2	14.1	7.7	1.9	0.8	9.9	19.9	4.8
2.4	9.0	21.3	14.4	7.7	1.9	0.8	9.6	20.5	4.7
2.6	9.0	21.3	14.9	7.7	1.9	0.8	9.9	20.4	4.8
2.8	8.9	21.4	15.3	7.7	1.9	0.8	10.1	20.3	4.8
3.0	8.9	21.5	15.4	7.6	2.0	0.8	9.9	20.4	4.9
3.2	8.9	21.5	15.5	7.5	2.0	0.8	10.3	20.3	4.8
3.4	9.0	21.6	15.9	7.6	2.0	0.8	9.9	20.8	4.8
3.6	9.0	21.6	16.2	7.5	2.0	0.8	10.3	20.0	4.8
3.8	8.9	21.7	16.4	7.5	2.0	0.8	10.1	19.6	4.8
4.0	8.8	21.9	16.5	7.4	2.0	0.8	10.1	19.7	4.8
4.2	8.8	21.9	16.4	7.2	2.1	0.8	9.9	18.5	4.7
4.4	8.6	22.2	16.1	7.1	2.1	0.8	10.0	20.2	4.7
4.6	8.5	22.3	15.8	6.8	2.2	0.8	10.5	18.6	4.7
4.8	8.3	22.6	15.2	6.6	2.2	0.8	9.8	19.2	4.7
5.0	8.0	22.8	14.6	6.4	2.3	0.7	9.8	20.0	4.8
5.2	7.8	23.0	13.9	6.2	2.4	0.7	9.8	19.0	4.8
5.4	7.6	23.2	13.4	6.0	2.4	0.7	9.5	18.9	4.7
5.6	7.4	23.3	12.9	5.8	2.5	0.7	10.0	18.6	4.8
5.8	7.3	23.3	12.5	5.6	2.5	0.7	9.6	19.0	4.8
6.0	7.2	23.4	12.3	5.4	2.5	0.7	10.3	18.0	4.7
6.2	7.2	23.4	12.2	5.3	2.5	0.7	9.6	18.7	4.7
6.4	7.1	23.5	12.2	5.2	2.5	0.7	9.6	18.7	4.6
6.6	7.0	23.5	12.2	5.2	2.5	0.7	9.7	18.6	4.7
6.8	7.0	23.5	12.3	5.2	2.5	0.7	9.5	18.8	4.6
7.0	6.9	23.5	12.3	5.3	2.6	0.7	9.6	19.2	4.7
7.2	6.9	23.5	12.4	5.4	2.6	0.7	9.5	18.9	4.7
7.4	6.8	23.4	12.6	5.6	2.6	0.7	9.4	18.8	4.6
7.6	6.8	23.3	12.6	5.8	2.7	0.7	9.9	18.7	4.6
7.8	6.8	23.3	12.7	6.0	2.7	0.8	9.7	18.5	4.7
8.0	6.8	23.1	12.7	6.2	2.7	0.8	9.6	19.5	4.6
8.2	6.8	23.1	12.7	6.3	2.7	0.8	9.4	18.7	4.7
8.4	6.8	23.0	12.6	6.5	2.7	0.8	9.5	19.5	4.8
8.6	6.7	23.0	12.4	6.7	2.7	0.8	9.4	19.0	4.7
8.8	6.7	22.8	12.2	6.7	2.7	0.8	9.6	18.8	4.7
9.0	6.6	22.8	11.8	6.9	2.7	0.8	9.9	18.7	4.7
9.2	6.6	22.7	11.6	6.9	2.7	0.8	9.6	19.0	4.7
9.4	6.5	22.7	11.4	7.0	2.7	0.8	9.7	19.1	4.7
9.6	6.4	22.7	11.2	7.0	2.7	0.8	9.7	18.5	4.8
9.8	6.3	22.7	11.1	7.0	2.8	0.8	9.6	19.5	4.7
10.0	6.3	22.7	11.1	7.1	2.8	0.8	9.9	17.9	4.7
11.0	5.9	22.5	11.9	8.1	3.0	0.9	9.2	19.7	4.7
12.0	5.5	22.5	13.2	8.0	3.2	0.9	9.6	19.2	4.8
13.0	4.7	22.6	14.4	6.4	3.3	0.8	-	-	-
14.0	3.1	23.6	12.3	4.9	3.7	0.7	-	-	-
15.0	1.7	24.5	8.8	4.1	4.0	0.7	-	-	-

## Typical Performance Data

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

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS:  $V_{DD} = +5V$ ,  $V_C = +1V$ ,  $I_{DD} = 9mA$  @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	8.2	19.4	10.0	6.2	1.5	0.7	12.0	19.1	18.1
0.4	8.2	19.4	10.3	6.3	1.6	0.7	12.1	19.9	6.2
0.6	8.1	19.4	10.2	6.5	1.6	0.7	12.0	19.9	5.1
0.8	8.0	19.5	10.1	6.6	1.6	0.7	12.1	19.7	4.8
1.0	8.0	19.6	10.0	6.8	1.7	0.7	12.0	19.3	4.7
1.2	7.9	19.7	10.0	6.9	1.7	0.7	12.2	19.8	4.6
1.4	7.9	19.8	10.0	7.0	1.7	0.7	12.2	19.7	4.6
1.6	7.9	19.8	10.0	7.1	1.7	0.8	12.3	20.1	4.6
1.8	7.8	19.8	10.1	7.0	1.8	0.8	12.2	20.3	4.6
2.0	7.8	19.9	10.2	7.1	1.8	0.8	12.5	20.0	4.6
2.2	7.8	19.9	10.4	7.0	1.8	0.8	12.9	19.6	4.6
2.4	7.8	19.9	10.7	7.0	1.8	0.8	12.7	20.1	4.6
2.6	7.8	19.9	11.1	7.1	1.8	0.8	12.9	20.0	4.6
2.8	7.7	20.0	11.5	7.1	1.8	0.8	13.0	20.0	4.6
3.0	7.7	20.1	11.7	7.1	1.9	0.8	13.1	20.1	4.6
3.2	7.6	20.1	11.7	7.0	1.9	0.8	13.4	20.2	4.6
3.4	7.6	20.1	11.9	7.1	1.9	0.8	13.4	20.5	4.5
3.6	7.6	20.2	12.1	7.0	1.9	0.8	13.8	20.2	4.5
3.8	7.5	20.3	12.2	7.0	1.9	0.8	13.8	19.9	4.5
4.0	7.4	20.4	12.2	6.9	2.0	0.8	13.7	19.8	4.5
4.2	7.2	20.6	12.2	6.8	2.0	0.8	13.9	19.6	4.5
4.4	7.0	20.7	12.0	6.6	2.1	0.8	14.2	20.2	4.5
4.6	6.8	20.9	11.8	6.5	2.1	0.8	14.5	19.9	4.5
4.8	6.6	21.2	11.4	6.3	2.2	0.7	14.5	20.2	4.5
5.0	6.2	21.5	11.1	6.1	2.3	0.7	14.7	20.6	4.5
5.2	5.9	21.8	10.7	5.9	2.4	0.7	14.8	19.9	4.5
5.4	5.6	22.1	10.5	5.7	2.5	0.7	14.8	19.6	4.5
5.6	5.5	22.2	10.2	5.5	2.6	0.7	15.5	19.6	4.6
5.8	5.3	22.3	10.1	5.3	2.6	0.7	15.5	20.0	4.5
6.0	5.2	22.5	10.0	5.1	2.6	0.7	16.3	19.6	4.5
6.2	5.1	22.5	10.1	5.0	2.7	0.7	16.2	19.7	4.5
6.4	4.9	22.7	10.1	4.8	2.7	0.7	16.1	19.7	4.5
6.6	4.8	22.8	10.2	4.8	2.8	0.7	16.5	19.4	4.7
6.8	4.7	22.9	10.4	4.8	2.9	0.7	16.5	20.0	4.5
7.0	4.6	23.0	10.5	4.9	3.0	0.7	16.9	20.1	4.7
7.2	4.5	23.1	10.7	5.0	3.1	0.7	17.1	20.0	4.6
7.4	4.4	23.1	10.9	5.1	3.2	0.7	17.4	19.6	4.6
7.6	4.3	23.2	11.0	5.3	3.2	0.7	17.8	19.6	4.6
7.8	4.2	23.2	11.1	5.4	3.3	0.7	17.6	19.7	4.8
8.0	4.2	23.2	11.2	5.6	3.4	0.7	17.4	20.0	4.7
8.2	4.1	23.3	11.2	5.7	3.5	0.8	16.0	20.2	4.8
8.4	4.1	23.3	11.1	5.9	3.6	0.8	16.4	20.1	4.8
8.6	4.0	23.4	11.0	6.0	3.6	0.8	15.8	20.2	4.8
8.8	3.9	23.4	10.9	6.0	3.7	0.8	16.1	19.8	4.8
9.0	3.8	23.5	10.7	6.1	3.8	0.8	16.9	19.7	4.8
9.2	3.7	23.5	10.5	6.1	3.8	0.8	15.6	20.3	4.9
9.4	3.6	23.5	10.4	6.1	3.9	0.8	15.9	19.7	4.9
9.6	3.5	23.6	10.4	6.1	4.0	0.8	15.7	20.0	5.0
9.8	3.3	23.6	10.4	6.2	4.0	0.8	15.4	19.8	5.0
10.0	3.2	23.7	10.5	6.2	4.2	0.8	16.1	19.1	5.0
11.0	2.7	23.8	11.5	7.1	4.8	0.9	14.6	20.5	5.3
12.0	2.2	23.8	12.9	7.2	5.2	0.8	15.2	20.2	5.4
13.0	1.2	23.9	13.6	5.9	5.4	0.8	-	-	-
14.0	-0.7	24.8	11.3	4.4	6.2	0.7	-	-	-
15.0	-2.5	25.4	8.5	3.7	6.7	0.7	-	-	-

## Typical Performance Data

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

**Definitions:**

- Input Return Loss = -S11 (dB)
- Gain(Power Gain) = S21 (dB)
- Reverse Isolation = -S12 (dB)
- Output Return Loss = -S22 (dB)

TEST CONDITIONS:  $V_{DD} = +5V$ ,  $V_C = +0.8V$ ,  $I_{DD} = 1mA$  @ Temperature =  $-45^{\circ}C$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	2.6	18.3	7.0	3.9	1.8	0.6	7.2	18.9	19.8
0.4	2.4	18.4	7.1	4.0	1.9	0.6	7.3	19.6	7.7
0.6	2.3	18.5	7.1	4.2	2.0	0.6	7.3	19.7	6.7
0.8	2.1	18.6	7.1	4.3	2.1	0.7	6.9	19.5	6.6
1.0	2.0	18.7	7.1	4.4	2.1	0.7	6.7	19.0	6.3
1.2	1.8	18.8	7.2	4.5	2.2	0.7	6.6	19.7	6.4
1.4	1.6	18.9	7.2	4.6	2.3	0.7	6.5	19.4	6.3
1.6	1.5	18.9	7.3	4.6	2.4	0.7	6.4	19.9	6.5
1.8	1.3	19.0	7.5	4.6	2.4	0.7	6.4	20.1	6.4
2.0	1.2	19.0	7.6	4.6	2.5	0.7	6.3	19.9	6.6
2.2	1.0	19.1	7.8	4.5	2.5	0.7	6.7	19.3	6.5
2.4	0.8	19.2	8.0	4.5	2.6	0.7	6.3	20.0	6.8
2.6	0.6	19.2	8.4	4.5	2.7	0.7	6.1	19.9	6.8
2.8	0.4	19.3	8.8	4.5	2.8	0.7	6.0	19.8	6.8
3.0	0.1	19.5	8.9	4.4	2.9	0.7	6.0	19.9	7.0
3.2	0.0	19.5	9.0	4.4	3.0	0.7	6.8	20.0	7.0
3.4	-0.2	19.6	9.1	4.4	3.1	0.7	6.4	20.4	7.0
3.6	-0.5	19.7	9.2	4.4	3.2	0.7	6.8	20.0	7.0
3.8	-0.7	19.9	9.3	4.3	3.4	0.7	6.3	19.8	7.3
4.0	-1.1	20.1	9.4	4.3	3.6	0.7	6.3	19.6	7.3
4.2	-1.4	20.3	9.4	4.2	3.8	0.7	6.3	19.4	7.5
4.4	-1.8	20.6	9.4	4.2	4.0	0.7	6.3	20.0	7.6
4.6	-2.2	20.9	9.3	4.1	4.3	0.6	6.2	19.6	7.5
4.8	-2.7	21.3	9.1	4.0	4.7	0.6	6.2	20.0	7.8
5.0	-3.2	21.7	9.0	4.0	5.2	0.7	6.2	20.5	8.0
5.2	-3.7	22.1	8.9	4.0	5.7	0.7	6.2	19.7	8.1
5.4	-4.2	22.5	8.8	4.0	6.2	0.7	6.2	19.4	8.2
5.6	-4.5	22.7	8.7	3.8	6.5	0.6	6.2	19.3	8.6
5.8	-4.8	22.9	8.7	3.7	6.7	0.6	6.2	19.8	8.7
6.0	-5.0	23.1	8.8	3.6	6.9	0.6	6.1	19.3	8.9
6.2	-5.2	23.3	8.9	3.5	7.1	0.6	6.2	19.4	8.9
6.4	-5.5	23.5	9.1	3.4	7.5	0.6	6.2	19.4	8.7
6.6	-5.7	23.6	9.3	3.5	7.9	0.6	6.2	19.2	9.3
6.8	-5.9	23.8	9.5	3.5	8.4	0.6	6.1	19.9	8.7
7.0	-6.1	23.9	9.7	3.6	8.8	0.6	6.2	20.2	9.5
7.2	-6.3	24.2	9.9	3.7	9.4	0.6	6.1	20.1	9.7
7.4	-6.4	24.2	10.1	3.8	9.9	0.6	6.1	19.7	9.5
7.6	-6.6	24.4	10.3	3.9	10.5	0.6	6.1	19.5	9.3
7.8	-6.7	24.5	10.4	4.1	11.0	0.7	6.1	19.7	9.7
8.0	-6.8	24.5	10.5	4.2	11.4	0.7	6.0	20.2	9.8
8.2	-6.9	24.6	10.5	4.3	11.9	0.7	6.0	20.3	10.1
8.4	-6.9	24.7	10.5	4.4	12.3	0.7	6.0	20.2	10.3
8.6	-7.1	24.8	10.4	4.5	12.8	0.7	6.0	20.4	9.9
8.8	-7.2	24.9	10.3	4.6	13.1	0.7	6.0	20.1	10.3
9.0	-7.3	24.9	10.1	4.7	13.5	0.7	6.0	20.0	10.6
9.2	-7.4	25.0	10.1	4.7	13.8	0.7	5.9	20.6	10.4
9.4	-7.6	25.1	10.0	4.8	14.2	0.7	6.0	20.0	10.3
9.6	-7.6	25.1	10.0	4.8	14.5	0.7	5.9	20.2	10.6
9.8	-7.8	25.2	10.0	4.8	15.0	0.7	6.0	20.5	10.8
10.0	-7.9	25.3	10.2	4.9	15.5	0.7	6.0	19.7	10.8
11.0	-8.4	25.3	11.3	5.7	18.2	0.8	5.9	20.8	11.0
12.0	-8.9	24.9	12.8	5.9	19.4	0.8	6.0	20.0	11.2
13.0	-9.8	24.7	13.0	4.9	19.2	0.7	-	-	-
14.0	-11.6	25.4	10.5	3.8	21.0	0.6	-	-	-
15.0	-13.2	25.6	8.2	3.2	21.3	0.6	-	-	-

## 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:  $V_{DD} = +5V$ ,  $V_C = +5V$ ,  $I_{DD} = 69mA$  @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	16.0	25.5	17.1	20.5	1.6	0.9	24.9	19.0	9.6
0.4	16.2	25.1	20.4	21.6	1.6	0.9	23.9	18.8	5.3
0.6	16.2	25.1	21.6	21.6	1.6	0.9	24.3	19.2	4.9
0.8	16.2	25.1	22.5	22.0	1.6	0.9	26.4	19.2	4.8
1.0	16.2	25.1	23.0	22.2	1.6	0.9	26.2	18.9	4.8
1.2	16.2	25.2	23.8	22.4	1.6	0.9	26.8	19.3	4.7
1.4	16.3	25.3	24.2	22.9	1.6	0.9	26.8	19.1	4.6
1.6	16.2	25.4	24.7	23.0	1.6	0.9	28.1	19.5	4.7
1.8	16.2	25.5	25.3	23.9	1.7	0.9	26.9	19.1	4.7
2.0	16.2	25.5	25.8	24.1	1.7	0.9	27.3	19.2	4.7
2.2	16.2	25.7	25.8	24.8	1.7	0.9	27.7	19.2	4.7
2.4	16.2	25.9	25.7	24.9	1.7	0.9	27.6	19.1	4.7
2.6	16.2	26.0	25.3	24.8	1.8	0.9	28.4	19.3	4.7
2.8	16.1	26.1	24.8	24.4	1.8	0.9	28.7	18.9	4.8
3.0	16.1	26.3	24.4	24.1	1.8	0.9	30.4	19.1	4.8
3.2	16.1	26.4	23.5	23.3	1.8	0.9	30.1	18.9	4.8
3.4	16.1	26.6	22.5	22.2	1.9	0.9	30.1	19.0	4.8
3.6	16.1	26.7	21.5	21.3	1.9	0.9	32.3	18.9	4.8
3.8	16.1	26.9	20.9	20.1	1.9	0.9	30.2	18.4	4.8
4.0	16.1	27.0	20.5	19.3	2.0	0.9	34.5	18.8	4.8
4.2	16.0	27.2	20.2	18.4	2.0	0.9	32.4	18.4	4.7
4.4	16.0	27.3	20.1	17.7	2.0	0.9	32.3	18.7	4.8
4.6	15.9	27.5	19.9	16.9	2.1	0.9	30.6	18.5	4.8
4.8	15.8	27.6	19.7	16.2	2.1	0.9	29.3	18.5	4.8
5.0	15.8	27.8	19.4	15.6	2.2	0.9	29.8	18.6	4.8
5.2	15.7	28.1	19.0	14.9	2.2	0.9	27.7	18.2	4.9
5.4	15.6	28.1	18.6	14.3	2.2	0.9	27.0	18.2	4.8
5.6	15.6	28.3	18.0	13.8	2.3	0.9	27.8	18.1	4.8
5.8	15.5	28.3	17.6	13.5	2.3	0.9	27.6	18.2	4.8
6.0	15.4	28.4	17.3	13.3	2.3	0.9	26.4	18.0	4.8
6.2	15.4	28.5	16.9	13.2	2.4	0.9	26.1	18.1	4.8
6.4	15.3	28.6	16.6	13.1	2.4	0.9	25.6	18.0	4.7
6.6	15.2	28.6	16.3	13.3	2.4	0.9	25.6	18.0	4.8
6.8	15.2	28.7	16.0	13.5	2.5	0.9	24.8	18.0	4.8
7.0	15.1	28.7	15.7	13.9	2.5	1.0	25.4	18.0	4.8
7.2	15.0	28.7	15.4	14.4	2.5	1.0	24.9	18.0	4.8
7.4	15.0	28.8	15.1	14.9	2.6	1.0	24.8	17.6	4.8
7.6	14.9	28.7	14.7	15.5	2.6	1.0	25.1	17.8	4.8
7.8	14.8	28.8	14.2	16.0	2.6	1.0	24.7	17.5	4.8
8.0	14.7	28.8	13.7	16.4	2.6	1.0	24.6	17.7	4.9
8.2	14.6	28.8	13.2	16.7	2.7	1.0	24.0	17.5	4.9
8.4	14.4	28.8	12.7	16.8	2.7	1.0	24.4	17.4	4.9
8.6	14.3	28.8	12.3	17.0	2.7	1.0	24.2	17.6	5.0
8.8	14.3	28.8	11.9	17.0	2.7	1.0	23.8	17.2	5.0
9.0	14.1	28.8	11.6	17.1	2.8	1.0	24.8	17.5	5.0
9.2	14.0	28.7	11.5	17.1	2.8	1.0	24.1	17.2	5.0
9.4	13.9	28.7	11.3	17.3	2.8	1.0	23.9	17.1	5.0
9.6	13.8	28.7	11.3	17.5	2.9	1.0	24.3	17.3	5.1
9.8	13.6	28.7	11.4	17.7	2.9	1.0	23.8	16.9	5.1
10.0	13.5	28.7	11.4	18.1	3.0	1.0	24.9	17.3	5.1
11.0	12.6	28.8	11.6	15.6	3.3	1.0	24.4	16.9	5.2
12.0	11.9	29.1	11.2	11.6	3.5	1.0	24.1	16.7	5.4
13.0	10.8	29.5	10.7	9.5	4.0	1.0	-	-	-
14.0	9.2	30.5	8.9	8.4	4.9	1.0	-	-	-
15.0	8.0	31.4	7.0	7.6	5.5	1.0	-	-	-

## 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:  $V_{DD} = +5V$ ,  $V_C = +4V$ ,  $I_{DD} = 53mA$  @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	15.2	24.5	19.0	40.1	1.6	0.9	22.1	19.1	10.2
0.4	15.4	24.3	24.5	52.3	1.6	0.9	21.5	19.1	5.4
0.6	15.4	24.2	27.3	50.1	1.6	0.9	21.9	19.3	4.9
0.8	15.4	24.2	29.5	42.8	1.6	0.9	23.7	19.3	4.8
1.0	15.4	24.3	31.0	46.5	1.6	0.9	23.6	19.1	4.8
1.2	15.4	24.3	33.3	43.9	1.6	0.9	24.1	19.4	4.7
1.4	15.4	24.4	34.8	43.5	1.6	0.9	24.1	19.3	4.7
1.6	15.4	24.5	36.6	42.9	1.6	0.9	24.4	19.6	4.7
1.8	15.4	24.6	38.8	36.7	1.7	0.9	23.1	19.4	4.7
2.0	15.4	24.7	38.4	34.0	1.7	0.9	24.5	19.4	4.7
2.2	15.4	24.8	37.2	30.8	1.7	0.9	25.1	19.3	4.7
2.4	15.3	25.0	36.1	28.9	1.7	0.9	25.0	19.3	4.9
2.6	15.3	25.1	35.2	28.4	1.8	0.9	24.7	19.5	4.8
2.8	15.3	25.3	33.9	26.9	1.8	0.9	25.5	19.1	4.8
3.0	15.3	25.4	32.6	26.6	1.8	0.9	26.1	19.3	4.8
3.2	15.3	25.5	30.3	25.3	1.8	0.9	26.9	19.1	4.8
3.4	15.3	25.6	27.7	24.1	1.9	0.9	25.3	19.2	4.8
3.6	15.2	25.8	26.0	22.9	1.9	0.9	26.7	19.0	4.8
3.8	15.2	25.9	24.7	21.2	1.9	0.9	27.6	18.6	4.8
4.0	15.2	26.0	23.7	19.9	1.9	0.9	28.5	18.9	4.8
4.2	15.1	26.2	22.8	18.4	2.0	0.9	28.2	18.5	4.8
4.4	15.1	26.4	21.9	17.2	2.0	0.9	27.8	18.9	4.8
4.6	15.0	26.5	21.2	16.0	2.0	0.9	29.5	18.6	4.8
4.8	14.9	26.7	20.3	15.0	2.1	0.9	29.4	18.7	4.8
5.0	14.8	26.9	19.6	14.1	2.1	0.9	28.8	18.9	4.8
5.2	14.7	27.1	18.8	13.3	2.2	0.9	27.8	18.5	4.9
5.4	14.6	27.2	18.1	12.7	2.2	0.9	27.2	18.5	4.8
5.6	14.5	27.3	17.4	12.2	2.2	0.9	27.8	18.2	4.8
5.8	14.4	27.4	16.9	11.9	2.3	0.9	26.6	18.4	4.8
6.0	14.4	27.5	16.6	11.6	2.3	0.9	26.1	18.1	4.8
6.2	14.3	27.6	16.2	11.5	2.3	0.9	25.2	18.2	4.8
6.4	14.2	27.6	15.9	11.4	2.4	0.9	25.1	18.2	4.8
6.6	14.2	27.7	15.7	11.5	2.4	0.9	25.2	18.1	4.8
6.8	14.1	27.7	15.5	11.7	2.4	0.9	24.5	18.2	4.8
7.0	14.1	27.7	15.3	12.0	2.5	0.9	24.0	18.2	4.8
7.2	14.0	27.8	15.0	12.5	2.5	0.9	23.8	18.3	4.8
7.4	13.9	27.8	14.8	12.9	2.6	1.0	23.5	17.9	4.8
7.6	13.9	27.8	14.5	13.5	2.6	1.0	23.9	18.0	4.8
7.8	13.8	27.7	14.1	14.0	2.6	1.0	23.9	17.7	4.9
8.0	13.7	27.8	13.7	14.4	2.6	1.0	23.9	18.1	4.9
8.2	13.6	27.8	13.2	14.8	2.7	1.0	22.4	17.7	4.9
8.4	13.4	27.8	12.7	15.0	2.7	1.0	23.0	17.7	4.9
8.6	13.4	27.8	12.3	15.3	2.7	1.0	23.1	17.8	5.0
8.8	13.3	27.8	11.9	15.3	2.7	1.0	23.2	17.4	5.0
9.0	13.2	27.7	11.7	15.4	2.7	1.0	24.0	17.6	5.0
9.2	13.1	27.7	11.5	15.4	2.7	1.0	22.8	17.3	5.0
9.4	13.0	27.7	11.4	15.6	2.8	1.0	23.0	17.3	5.0
9.6	12.9	27.7	11.4	15.8	2.8	1.0	23.2	17.3	5.1
9.8	12.7	27.7	11.4	16.1	2.9	1.0	22.7	17.1	5.1
10.0	12.6	27.7	11.5	16.6	2.9	1.0	23.2	17.2	5.1
11.0	11.8	27.9	11.8	15.7	3.3	1.0	22.8	16.9	5.3
12.0	11.1	28.2	11.4	12.0	3.5	1.0	23.1	16.6	5.4
13.0	10.0	28.6	11.1	9.4	3.9	1.0	-	-	-
14.0	8.4	29.7	9.1	8.1	4.8	1.0	-	-	-
15.0	7.1	30.7	7.0	7.2	5.5	1.0	-	-	-



## 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:  $V_{DD} = +5V$ ,  $V_C = +3V$ ,  $I_{DD} = 39mA$  @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	13.5	23.0	20.5	16.8	1.6	0.9	16.6	19.3	11.3
0.4	13.7	22.7	24.7	16.7	1.6	0.9	17.0	19.6	5.7
0.6	13.7	22.7	25.3	16.9	1.6	0.9	17.3	19.6	5.1
0.8	13.7	22.8	25.0	16.9	1.6	0.9	18.3	19.5	4.9
1.0	13.7	22.9	24.7	17.0	1.6	0.9	18.1	19.3	4.9
1.2	13.7	22.9	24.1	17.0	1.6	0.9	18.4	19.5	4.9
1.4	13.7	23.0	23.8	17.0	1.6	0.9	18.8	19.5	4.9
1.6	13.7	23.1	23.5	17.0	1.7	0.9	18.9	19.8	4.9
1.8	13.6	23.3	23.2	16.7	1.7	0.9	18.2	19.7	4.9
2.0	13.6	23.3	23.0	16.7	1.7	0.9	18.7	19.7	4.9
2.2	13.6	23.4	23.0	16.3	1.7	0.9	19.4	19.4	4.9
2.4	13.6	23.6	23.5	16.1	1.8	0.9	18.7	19.7	5.0
2.6	13.5	23.7	24.1	16.1	1.8	0.9	18.9	19.6	4.9
2.8	13.5	23.8	24.9	16.0	1.8	0.9	19.7	19.4	5.0
3.0	13.5	23.9	25.5	15.9	1.8	0.9	19.5	19.5	5.0
3.2	13.5	24.0	26.3	15.8	1.9	0.9	20.2	19.4	5.0
3.4	13.5	24.1	27.0	15.9	1.9	0.9	19.8	19.7	4.9
3.6	13.5	24.2	27.1	15.7	1.9	0.9	20.4	19.3	4.9
3.8	13.4	24.4	26.2	15.3	1.9	0.9	20.3	19.1	4.9
4.0	13.4	24.5	24.8	14.8	2.0	0.9	20.4	19.1	5.0
4.2	13.3	24.7	23.3	14.1	2.0	0.9	20.2	18.8	5.0
4.4	13.2	24.8	21.7	13.4	2.0	0.9	20.4	19.3	4.9
4.6	13.1	25.0	20.4	12.6	2.1	0.9	21.6	18.9	4.9
4.8	13.0	25.2	19.1	11.9	2.1	0.9	20.6	19.1	5.0
5.0	12.9	25.4	18.1	11.2	2.2	0.9	20.2	19.3	5.0
5.2	12.7	25.6	17.2	10.6	2.2	0.9	20.6	18.8	5.0
5.4	12.6	25.8	16.4	10.1	2.2	0.9	20.0	18.7	4.9
5.6	12.5	25.9	15.7	9.7	2.3	0.9	21.0	18.5	5.0
5.8	12.3	26.0	15.3	9.4	2.3	0.9	20.1	18.8	5.0
6.0	12.3	26.1	14.9	9.2	2.3	0.9	22.1	18.3	5.0
6.2	12.2	26.1	14.7	9.1	2.4	0.9	21.0	18.5	4.9
6.4	12.1	26.2	14.5	9.0	2.4	0.9	20.6	18.5	4.9
6.6	12.1	26.2	14.4	9.0	2.4	0.9	21.4	18.4	4.9
6.8	12.0	26.3	14.4	9.1	2.5	0.9	20.7	18.5	4.9
7.0	11.9	26.3	14.2	9.4	2.5	0.9	21.3	18.7	4.9
7.2	11.9	26.4	14.1	9.7	2.6	0.9	21.1	18.6	5.0
7.4	11.8	26.3	14.1	10.0	2.6	0.9	21.4	18.4	5.0
7.6	11.8	26.3	13.9	10.5	2.6	0.9	23.2	18.3	5.0
7.8	11.7	26.3	13.6	10.9	2.7	0.9	22.7	18.1	5.0
8.0	11.6	26.3	13.3	11.2	2.7	0.9	22.2	18.6	5.0
8.2	11.6	26.3	13.0	11.5	2.7	1.0	21.8	18.2	5.1
8.4	11.5	26.2	12.6	11.8	2.7	1.0	22.2	18.3	5.1
8.6	11.5	26.2	12.2	11.9	2.7	1.0	21.7	18.2	5.1
8.8	11.4	26.2	11.9	12.0	2.7	1.0	23.0	18.0	5.1
9.0	11.3	26.2	11.7	12.1	2.7	1.0	22.7	18.0	5.1
9.2	11.2	26.2	11.5	12.2	2.8	1.0	21.5	17.9	5.2
9.4	11.1	26.2	11.4	12.3	2.8	1.0	21.7	17.8	5.2
9.6	11.0	26.2	11.4	12.5	2.8	1.0	21.3	17.7	5.2
9.8	10.9	26.2	11.5	12.8	2.9	1.0	20.7	17.8	5.2
10.0	10.8	26.2	11.5	13.2	2.9	1.0	21.0	17.4	5.3
11.0	10.1	26.4	12.0	13.9	3.3	1.0	19.6	17.1	5.5
12.0	9.5	26.6	11.8	11.5	3.5	1.0	19.7	16.9	5.6
13.0	8.5	27.0	11.8	8.9	3.9	0.9	-	-	-
14.0	6.9	28.2	9.6	7.4	4.8	0.9	-	-	-
15.0	5.4	29.2	7.2	6.4	5.4	0.9	-	-	-

## 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:  $V_{DD} = +5V$ ,  $V_C = +2V$ ,  $I_{DD} = 27mA$  @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	10.5	21.1	15.4	9.0	1.6	0.8	10.4	19.2	13.7
0.4	10.7	20.8	15.2	9.1	1.6	0.8	11.4	19.6	6.4
0.6	10.7	20.9	15.1	9.2	1.6	0.8	11.5	19.5	5.7
0.8	10.7	20.9	14.9	9.3	1.6	0.8	11.6	19.4	5.6
1.0	10.6	21.0	14.8	9.4	1.7	0.8	11.5	19.2	5.5
1.2	10.6	21.1	14.6	9.4	1.7	0.8	11.8	19.3	5.4
1.4	10.5	21.2	14.6	9.5	1.7	0.8	12.2	19.4	5.4
1.6	10.5	21.3	14.5	9.6	1.7	0.8	12.4	19.7	5.4
1.8	10.4	21.5	14.5	9.5	1.8	0.8	12.1	19.7	5.4
2.0	10.4	21.6	14.5	9.5	1.8	0.8	12.2	19.6	5.4
2.2	10.3	21.7	14.6	9.4	1.8	0.8	12.9	19.2	5.5
2.4	10.3	21.8	14.9	9.4	1.8	0.8	12.2	19.6	5.5
2.6	10.3	21.8	15.2	9.4	1.9	0.8	12.6	19.5	5.5
2.8	10.3	21.9	15.5	9.4	1.9	0.8	12.9	19.5	5.5
3.0	10.3	22.0	15.8	9.4	1.9	0.8	12.7	19.5	5.5
3.2	10.3	22.1	16.1	9.4	1.9	0.8	13.2	19.5	5.5
3.4	10.3	22.1	16.5	9.5	2.0	0.8	12.8	19.9	5.5
3.6	10.2	22.2	16.9	9.6	2.0	0.8	13.3	19.4	5.5
3.8	10.2	22.4	17.0	9.5	2.0	0.8	13.1	19.3	5.5
4.0	10.1	22.5	16.9	9.4	2.1	0.8	13.0	19.2	5.5
4.2	10.0	22.6	16.6	9.1	2.1	0.8	12.8	19.0	5.5
4.4	9.9	22.8	16.1	8.8	2.1	0.8	13.0	19.5	5.4
4.6	9.7	23.0	15.5	8.5	2.2	0.8	13.6	19.0	5.4
4.8	9.5	23.2	14.9	8.1	2.2	0.8	12.8	19.4	5.5
5.0	9.3	23.5	14.3	7.8	2.3	0.8	12.5	19.7	5.5
5.2	9.1	23.7	13.7	7.4	2.4	0.8	12.6	19.2	5.5
5.4	8.9	23.9	13.2	7.1	2.4	0.8	12.3	19.0	5.5
5.6	8.7	24.0	12.8	6.8	2.5	0.8	13.0	18.9	5.5
5.8	8.6	24.1	12.6	6.7	2.5	0.8	12.5	19.1	5.5
6.0	8.5	24.2	12.4	6.5	2.6	0.8	13.4	18.6	5.5
6.2	8.4	24.3	12.3	6.4	2.6	0.8	12.6	18.8	5.5
6.4	8.2	24.4	12.3	6.4	2.7	0.8	12.4	18.9	5.5
6.6	8.2	24.5	12.3	6.4	2.7	0.8	12.7	18.8	5.5
6.8	8.1	24.5	12.4	6.5	2.8	0.8	12.3	19.0	5.5
7.0	8.0	24.6	12.4	6.6	2.8	0.8	12.5	19.2	5.5
7.2	7.9	24.6	12.5	6.8	2.9	0.8	12.3	19.1	5.6
7.4	7.9	24.6	12.6	7.1	3.0	0.8	12.3	18.9	5.6
7.6	7.8	24.5	12.6	7.4	3.0	0.8	13.0	18.8	5.6
7.8	7.7	24.6	12.5	7.6	3.1	0.8	12.7	18.8	5.6
8.0	7.7	24.5	12.5	7.9	3.1	0.9	12.6	19.2	5.6
8.2	7.6	24.5	12.3	8.1	3.1	0.9	12.3	19.0	5.7
8.4	7.6	24.5	12.1	8.2	3.1	0.9	12.5	19.0	5.7
8.6	7.5	24.5	11.8	8.3	3.2	0.9	12.4	18.9	5.7
8.8	7.5	24.5	11.7	8.3	3.2	0.9	12.9	18.7	5.7
9.0	7.4	24.4	11.5	8.4	3.2	0.9	13.2	18.6	5.8
9.2	7.3	24.5	11.4	8.5	3.2	0.9	12.7	18.8	5.7
9.4	7.2	24.4	11.3	8.6	3.3	0.9	13.1	18.4	5.8
9.6	7.2	24.4	11.3	8.7	3.3	0.9	13.0	18.2	5.9
9.8	7.1	24.4	11.4	8.9	3.4	0.9	13.0	18.5	5.8
10.0	7.0	24.4	11.5	9.1	3.5	0.9	13.3	17.8	5.9
11.0	6.3	24.6	12.2	10.3	3.9	1.0	12.3	18.5	6.1
12.0	5.8	24.7	12.6	9.4	4.1	0.9	12.7	18.3	6.3
13.0	4.8	25.0	13.1	7.4	4.5	0.9	-	-	-
14.0	3.2	26.0	10.8	6.1	5.4	0.8	-	-	-
15.0	1.6	26.9	7.9	5.2	6.0	0.8	-	-	-

## Typical Performance Data

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

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS:  $V_{DD} = +5V$ ,  $V_C = +1V$ ,  $I_{DD} = 12mA$  @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	8.1	19.3	9.7	6.3	1.5	0.7	12.1	18.5	16.8
0.4	8.0	19.2	9.8	6.4	1.6	0.7	12.5	19.2	7.1
0.6	8.0	19.3	9.8	6.6	1.6	0.7	12.4	19.2	6.0
0.8	7.9	19.4	9.7	6.7	1.6	0.7	12.6	19.0	5.9
1.0	7.8	19.5	9.7	6.8	1.7	0.7	12.3	18.6	5.8
1.2	7.7	19.7	9.6	7.0	1.7	0.8	12.7	19.0	5.8
1.4	7.6	19.8	9.7	7.1	1.8	0.8	12.7	18.9	5.8
1.6	7.6	19.8	9.8	7.2	1.8	0.8	12.8	19.3	5.9
1.8	7.5	20.0	9.9	7.2	1.8	0.8	12.7	19.4	5.9
2.0	7.5	20.0	10.0	7.2	1.8	0.8	13.0	19.2	5.9
2.2	7.4	20.1	10.2	7.1	1.9	0.8	13.4	18.8	5.9
2.4	7.4	20.1	10.4	7.1	1.9	0.8	13.1	19.2	5.9
2.6	7.3	20.2	10.7	7.0	1.9	0.8	13.5	19.2	5.9
2.8	7.3	20.2	11.0	7.0	1.9	0.8	13.5	19.1	5.9
3.0	7.2	20.4	11.2	7.0	2.0	0.8	13.6	19.2	5.9
3.2	7.2	20.4	11.4	7.0	2.0	0.8	14.0	19.3	5.9
3.4	7.2	20.5	11.6	7.0	2.0	0.8	13.9	19.6	5.9
3.6	7.1	20.6	11.9	7.0	2.1	0.8	14.4	19.3	5.9
3.8	7.0	20.7	12.0	7.0	2.1	0.8	14.4	19.1	5.9
4.0	6.9	20.8	12.0	7.0	2.2	0.8	14.3	19.0	5.9
4.2	6.7	21.0	11.9	6.9	2.2	0.8	14.4	18.9	5.9
4.4	6.5	21.2	11.7	6.7	2.3	0.8	14.9	19.4	5.9
4.6	6.2	21.5	11.5	6.5	2.4	0.8	15.2	19.1	5.9
4.8	6.0	21.7	11.2	6.3	2.5	0.8	15.2	19.4	5.9
5.0	5.6	22.0	10.9	6.1	2.6	0.8	15.6	19.7	6.1
5.2	5.3	22.4	10.6	5.9	2.8	0.8	15.8	19.0	6.0
5.4	5.1	22.6	10.5	5.7	2.9	0.7	16.1	18.8	6.0
5.6	4.9	22.8	10.3	5.5	2.9	0.7	16.9	18.7	6.1
5.8	4.7	22.9	10.3	5.3	3.0	0.7	17.2	19.0	6.1
6.0	4.5	23.1	10.3	5.2	3.1	0.7	17.6	18.7	6.2
6.2	4.3	23.3	10.3	5.0	3.2	0.7	17.9	18.7	6.1
6.4	4.2	23.5	10.4	5.0	3.3	0.7	18.2	18.7	6.2
6.6	4.0	23.6	10.5	5.0	3.4	0.7	18.7	18.6	6.2
6.8	3.9	23.7	10.7	5.0	3.5	0.7	18.5	19.0	6.2
7.0	3.8	23.8	10.8	5.1	3.6	0.7	18.8	19.0	6.3
7.2	3.6	23.9	11.0	5.2	3.8	0.7	17.6	19.0	6.4
7.4	3.6	24.0	11.2	5.3	3.9	0.7	16.8	18.6	6.3
7.6	3.5	24.0	11.3	5.5	4.0	0.7	19.1	18.6	6.3
7.8	3.4	24.0	11.4	5.7	4.2	0.8	17.5	18.7	6.4
8.0	3.3	24.1	11.5	5.9	4.3	0.8	16.9	18.9	6.5
8.2	3.2	24.1	11.5	6.0	4.4	0.8	15.4	19.1	6.6
8.4	3.1	24.2	11.4	6.2	4.5	0.8	15.5	18.8	6.6
8.6	3.0	24.2	11.3	6.3	4.6	0.8	15.3	19.0	6.6
8.8	2.9	24.3	11.2	6.3	4.7	0.8	15.7	18.7	6.7
9.0	2.8	24.3	11.2	6.5	4.8	0.8	16.0	18.6	6.8
9.2	2.7	24.3	11.1	6.5	4.9	0.8	14.7	19.1	6.8
9.4	2.6	24.3	11.2	6.6	5.0	0.8	14.8	18.5	6.8
9.6	2.5	24.3	11.3	6.6	5.1	0.8	14.5	18.6	6.9
9.8	2.4	24.4	11.4	6.8	5.2	0.8	14.2	18.6	7.0
10.0	2.3	24.4	11.6	6.9	5.4	0.8	14.6	18.1	7.0
11.0	1.6	24.6	12.5	7.8	6.4	0.9	12.0	18.7	7.3
12.0	0.9	24.5	13.5	7.7	6.8	0.9	12.6	18.3	7.7
13.0	-0.3	24.6	14.4	6.4	7.4	0.8	-	-	-
14.0	-2.1	25.5	11.8	5.2	8.8	0.7	-	-	-
15.0	-4.0	26.1	8.8	4.3	9.8	0.7	-	-	-

## Typical Performance Data

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

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS:  $V_{DD} = +5V$ ,  $V_C = +0.8V$ ,  $I_{DD} = 5mA$  @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.2	6.8	18.7	8.1	5.6	1.5	0.7	11.9	18.3	16.7
0.4	6.7	18.7	8.2	5.6	1.6	0.7	12.2	19.0	7.2
0.6	6.7	18.8	8.3	5.7	1.6	0.7	12.1	19.1	6.1
0.8	6.6	18.9	8.3	5.8	1.6	0.7	12.3	18.9	6.0
1.0	6.5	19.0	8.3	6.0	1.7	0.7	12.4	18.4	6.0
1.2	6.3	19.1	8.3	6.1	1.7	0.7	12.6	18.9	6.0
1.4	6.2	19.3	8.4	6.1	1.8	0.7	12.6	18.8	5.9
1.6	6.1	19.4	8.4	6.2	1.8	0.7	12.6	19.2	6.0
1.8	6.0	19.5	8.6	6.2	1.9	0.8	12.9	19.4	6.0
2.0	5.9	19.6	8.7	6.3	1.9	0.8	13.3	19.1	6.0
2.2	5.8	19.7	8.9	6.2	2.0	0.8	13.4	18.6	6.1
2.4	5.7	19.8	9.1	6.1	2.0	0.7	13.8	19.2	6.1
2.6	5.6	19.8	9.4	6.1	2.0	0.7	13.9	19.0	6.1
2.8	5.6	19.9	9.7	6.1	2.1	0.7	13.9	19.0	6.2
3.0	5.5	20.0	9.9	6.0	2.1	0.7	14.6	19.1	6.2
3.2	5.4	20.1	10.1	6.0	2.2	0.7	14.5	19.2	6.2
3.4	5.3	20.1	10.3	6.1	2.2	0.7	15.0	19.6	6.2
3.6	5.2	20.3	10.5	6.1	2.3	0.7	14.7	19.2	6.2
3.8	5.1	20.4	10.6	6.1	2.4	0.7	14.0	19.0	6.2
4.0	4.9	20.6	10.7	6.0	2.4	0.7	13.9	18.8	6.2
4.2	4.6	20.8	10.6	5.9	2.5	0.7	13.2	18.7	6.3
4.4	4.4	21.1	10.5	5.8	2.7	0.7	13.0	19.3	6.3
4.6	4.1	21.4	10.3	5.6	2.8	0.7	13.1	19.0	6.3
4.8	3.7	21.7	10.1	5.4	2.9	0.7	12.1	19.3	6.4
5.0	3.4	22.0	9.9	5.3	3.1	0.7	11.8	19.6	6.5
5.2	3.0	22.4	9.8	5.1	3.3	0.7	11.5	18.9	6.5
5.4	2.7	22.7	9.7	4.9	3.5	0.7	11.0	18.6	6.6
5.6	2.4	22.9	9.6	4.8	3.6	0.7	11.3	18.5	6.7
5.8	2.2	23.1	9.6	4.7	3.7	0.7	10.6	18.8	6.9
6.0	1.9	23.3	9.7	4.6	3.9	0.7	11.1	18.5	6.8
6.2	1.7	23.5	9.8	4.5	4.0	0.7	10.4	18.6	6.8
6.4	1.5	23.7	9.9	4.4	4.2	0.7	10.1	18.5	6.9
6.6	1.3	23.9	10.1	4.4	4.4	0.7	10.1	18.4	7.0
6.8	1.1	24.0	10.3	4.5	4.6	0.7	9.6	18.9	6.9
7.0	1.0	24.2	10.5	4.6	4.9	0.7	9.7	19.0	7.2
7.2	0.8	24.3	10.7	4.7	5.1	0.7	9.3	19.0	7.1
7.4	0.7	24.4	10.9	4.9	5.4	0.7	9.1	18.6	7.2
7.6	0.6	24.5	11.0	5.1	5.6	0.7	9.8	18.6	7.3
7.8	0.4	24.6	11.2	5.3	5.9	0.7	9.3	18.7	7.3
8.0	0.3	24.6	11.3	5.4	6.1	0.7	9.1	18.9	7.4
8.2	0.2	24.7	11.3	5.5	6.3	0.8	8.7	19.1	7.5
8.4	0.1	24.7	11.2	5.7	6.4	0.8	8.8	18.8	7.8
8.6	0.0	24.8	11.1	5.8	6.6	0.8	8.7	19.1	7.7
8.8	-0.2	24.8	11.1	5.8	6.8	0.8	8.9	18.9	7.7
9.0	-0.3	24.9	11.0	5.9	7.0	0.8	9.2	18.8	7.8
9.2	-0.4	24.9	11.0	5.9	7.1	0.8	8.6	19.2	7.9
9.4	-0.5	24.9	11.1	6.0	7.3	0.8	8.7	18.6	8.0
9.6	-0.6	25.0	11.2	6.1	7.5	0.8	8.8	18.6	8.1
9.8	-0.8	25.0	11.4	6.2	7.7	0.8	8.6	18.8	8.2
10.0	-0.9	25.1	11.6	6.3	8.0	0.8	9.0	18.3	8.3
11.0	-1.8	25.3	12.6	7.3	9.8	0.9	8.2	18.7	8.8
12.0	-2.5	25.1	13.6	7.2	10.5	0.8	8.6	17.7	9.2
13.0	-3.8	25.0	14.3	6.0	11.3	0.8	-	-	-
14.0	-5.7	25.8	11.5	4.9	13.6	0.7	-	-	-
15.0	-7.6	26.2	8.7	4.1	14.9	0.7	-	-	-