

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: VDD = +3.75V, IDD = 210mA @ 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)
1.00	12.5	73.2	-7.0	-6.5	346.9	0.9	26.1	16.8	7.3
2.00	15.7	72.9	-11.3	-19.0	344.8	1.1	26.5	18.3	6.7
2.25	15.7	65.4	-12.1	-20.5	148.0	1.1	26.6	18.6	6.7
2.50	15.7	65.2	-12.8	-22.0	147.6	1.0	26.5	18.8	6.6
2.75	15.7	64.6	-13.5	-23.4	138.6	1.0	26.5	19.0	6.5
3.00	15.8	61.4	-14.1	-24.7	96.2	1.0	26.2	18.9	6.5
3.25	15.8	65.8	-14.6	-25.6	160.9	1.0	26.0	19.3	6.5
3.50	15.8	64.3	-15.1	-26.4	134.5	1.0	25.8	18.9	6.4
3.75	15.9	68.2	-15.6	-26.8	211.7	1.0	25.8	19.2	6.4
4.00	15.9	61.1	-15.9	-26.9	94.1	1.0	25.4	19.0	6.4
4.25	15.9	67.5	-16.2	-27.0	195.8	1.0	25.3	19.0	6.4
4.50	16.0	64.8	-16.3	-26.9	143.6	1.0	25.2	18.9	6.3
4.75	16.0	63.0	-16.4	-26.6	116.7	1.0	25.1	19.3	6.3
5.00	16.1	61.0	-16.2	-26.4	91.2	1.0	25.0	18.7	6.3
6.00	16.4	62.5	-15.6	-24.5	105.4	1.0	24.4	18.3	6.0
6.50	16.5	62.4	-15.4	-24.4	103.6	1.0	24.6	19.1	5.9
7.00	16.5	62.4	-15.4	-25.0	103.4	1.0	24.5	19.1	5.8
7.50	16.6	62.0	-15.4	-26.3	98.0	1.0	24.2	19.3	5.6
8.00	16.8	64.1	-15.8	-28.5	123.8	1.0	24.0	19.1	5.6
8.50	16.8	59.6	-16.1	-30.1	74.0	1.0	23.9	19.2	5.4
9.00	16.9	62.7	-16.0	-29.2	105.1	1.0	23.9	19.2	5.3
9.50	16.9	59.3	-15.7	-27.1	71.2	1.0	23.8	19.4	5.3
10.00	16.8	61.3	-15.5	-26.1	90.7	1.0	23.3	19.3	5.2
10.50	16.8	60.4	-15.5	-25.8	82.8	1.0	23.3	19.4	5.1
11.00	16.7	60.3	-16.0	-26.7	82.9	1.0	23.2	19.3	5.0
11.50	16.7	57.9	-16.5	-28.2	63.6	1.0	22.9	19.0	5.0
12.00	16.6	59.5	-16.2	-27.1	77.0	1.0	22.7	18.8	5.0
12.50	16.5	60.8	-15.0	-24.0	89.6	1.0	22.7	18.8	4.9
13.00	16.4	59.8	-13.7	-21.2	79.9	1.0	22.4	18.9	4.8
13.50	16.4	57.8	-12.9	-19.6	63.0	1.0	22.4	18.5	4.8
14.00	16.4	57.4	-12.7	-19.1	60.5	1.0	22.2	18.7	4.7
14.50	16.4	57.0	-13.5	-19.8	58.5	1.0	21.9	18.6	4.6
15.00	16.5	58.9	-15.2	-21.7	73.0	1.0	21.7	18.5	4.5
15.50	16.7	57.2	-17.6	-24.9	60.2	1.0	21.4	18.1	4.6
16.00	16.7	57.9	-19.2	-25.6	65.8	1.0	21.1	17.9	4.5
16.50	16.8	57.1	-18.1	-22.1	59.3	1.0	21.0	18.0	4.5
17.00	16.8	59.0	-16.5	-19.0	73.3	1.0	20.5	18.2	4.5
17.50	16.7	60.4	-15.8	-17.3	86.5	1.0	20.2	18.0	4.6
18.00	16.6	58.3	-16.1	-16.6	67.9	1.0	19.9	18.2	4.7
18.50	16.6	58.1	-17.2	-16.6	67.8	1.0	19.5	17.9	4.8
19.00	16.5	60.5	-18.4	-17.2	90.7	1.0	19.1	17.6	4.9
19.50	16.4	58.6	-18.7	-18.0	74.7	1.0	18.9	17.3	5.1
20.00	16.2	57.5	-17.7	-18.6	67.8	1.0	18.8	17.2	5.3

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: VDD = +4.00V, IDD = 210mA @ 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)
1.00	12.3	73.4	-7.0	-6.5	363.2	0.9	25.3	17.4	7.4
2.00	15.5	64.9	-11.2	-19.0	140.4	1.1	26.2	19.0	6.6
2.25	15.5	66.3	-12.0	-20.6	167.8	1.1	26.2	19.3	6.7
2.50	15.5	63.5	-12.7	-22.1	123.0	1.0	26.0	19.3	6.9
2.75	15.5	73.0	-13.4	-23.6	369.9	1.0	26.2	19.5	6.6
3.00	15.6	64.5	-14.0	-24.8	140.4	1.0	25.9	19.5	6.6
3.25	15.6	64.6	-14.5	-25.8	143.5	1.0	25.8	19.7	6.6
3.50	15.6	63.1	-15.0	-26.6	120.7	1.0	25.2	19.6	6.5
3.75	15.6	65.9	-15.4	-27.0	166.6	1.0	25.5	19.7	6.5
4.00	15.7	63.9	-15.8	-27.2	132.2	1.0	25.4	19.5	6.5
4.25	15.7	66.6	-16.0	-27.1	180.1	1.0	25.3	19.6	6.4
4.50	15.7	64.1	-16.2	-27.0	135.7	1.0	24.8	19.5	6.4
4.75	15.8	62.7	-16.2	-26.7	115.5	1.0	24.9	19.8	6.4
5.00	15.9	65.1	-16.0	-26.5	151.0	1.0	24.6	19.4	6.4
6.00	16.2	63.8	-15.4	-24.7	125.5	1.0	24.0	19.0	6.1
6.50	16.2	61.6	-15.2	-24.5	96.8	1.0	24.2	19.7	6.0
7.00	16.3	61.2	-15.1	-25.2	92.1	1.0	24.3	19.7	5.8
7.50	16.4	62.1	-15.2	-26.6	101.8	1.0	23.8	19.9	5.7
8.00	16.5	65.9	-15.6	-28.8	157.1	1.0	23.6	19.7	5.6
8.50	16.6	61.9	-15.9	-30.4	98.8	1.0	23.8	19.7	5.5
9.00	16.6	62.6	-15.8	-29.4	107.0	1.0	23.3	19.8	5.5
9.50	16.6	59.5	-15.4	-27.4	75.1	1.0	23.5	19.9	5.4
10.00	16.5	59.3	-15.2	-26.3	74.6	1.0	23.1	19.9	5.3
10.50	16.5	58.5	-15.3	-26.0	68.6	1.0	22.9	20.0	5.2
11.00	16.4	60.1	-15.8	-27.0	82.8	1.0	22.7	19.9	5.1
11.50	16.4	60.2	-16.2	-28.6	85.6	1.0	22.6	19.6	5.1
12.00	16.3	57.5	-16.0	-27.4	63.3	1.0	22.6	19.5	5.0
12.50	16.2	57.6	-14.8	-24.2	63.9	1.0	22.2	19.4	5.0
13.00	16.1	58.0	-13.5	-21.4	66.7	1.0	22.3	19.5	4.9
13.50	16.1	58.2	-12.8	-19.7	68.4	1.0	22.0	19.1	4.8
14.00	16.1	57.4	-12.6	-19.3	62.4	1.0	21.9	19.3	4.8
14.50	16.1	58.1	-13.4	-20.0	68.0	1.0	21.6	19.2	4.7
15.00	16.2	58.2	-15.2	-22.0	70.0	1.0	21.5	19.1	4.6
15.50	16.4	58.4	-17.7	-25.3	71.9	1.0	21.1	18.8	4.7
16.00	16.4	57.0	-19.3	-26.1	61.4	1.0	20.7	18.6	4.6
16.50	16.5	57.4	-18.2	-22.3	64.0	1.0	20.4	18.6	4.6
17.00	16.4	56.3	-16.6	-19.3	55.9	1.0	20.0	18.7	4.6
17.50	16.3	58.1	-16.1	-17.5	69.0	1.0	19.6	18.5	4.6
18.00	16.2	58.3	-16.3	-16.7	71.2	1.0	19.4	18.7	4.8
18.50	16.2	57.4	-17.3	-16.8	65.5	1.0	19.1	18.4	4.9
19.00	16.1	59.0	-18.2	-17.4	80.6	1.0	18.6	18.2	5.1
19.50	15.9	59.8	-18.1	-18.1	90.0	1.0	18.3	18.0	5.3
20.00	15.7	57.9	-16.9	-18.7	74.4	1.0	18.3	17.8	5.5

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: VDD = +4.25V, IDD = 210mA @ 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)
1.00	12.1	69.7	-7.0	-6.5	242.5	0.9	25.0	18.0	7.4
2.00	15.2	72.6	-11.2	-19.1	348.4	1.1	26.4	19.5	6.7
2.25	15.2	65.6	-12.0	-20.7	159.7	1.1	26.6	19.8	6.8
2.50	15.2	67.1	-12.6	-22.2	192.1	1.0	26.4	19.8	6.7
2.75	15.3	61.0	-13.3	-23.7	95.5	1.0	26.0	19.9	6.7
3.00	15.3	63.8	-13.9	-24.9	134.0	1.0	25.7	19.9	6.6
3.25	15.3	66.8	-14.4	-26.0	189.9	1.0	25.7	20.0	6.6
3.50	15.4	65.8	-14.8	-26.6	169.2	1.0	25.4	20.0	6.6
3.75	15.4	65.6	-15.2	-27.2	164.9	1.0	25.3	20.0	6.5
4.00	15.4	61.1	-15.6	-27.3	98.8	1.0	25.3	19.9	6.5
4.25	15.4	62.6	-15.8	-27.3	118.1	1.0	25.4	19.9	6.5
4.50	15.5	64.6	-15.9	-27.2	148.9	1.0	24.7	20.0	6.5
4.75	15.5	61.6	-15.9	-26.9	104.9	1.0	24.8	20.0	6.4
5.00	15.6	64.2	-15.8	-26.6	139.7	1.0	24.4	19.9	6.3
6.00	15.9	68.9	-15.1	-24.8	234.5	1.0	24.4	19.7	6.2
6.50	15.9	65.0	-14.9	-24.6	149.4	1.0	24.0	20.1	6.0
7.00	16.0	61.7	-14.8	-25.3	101.6	1.0	23.9	20.1	5.9
7.50	16.1	61.8	-14.9	-26.8	102.7	1.0	23.7	20.3	5.7
8.00	16.2	61.5	-15.3	-30.7	97.8	1.0	23.7	20.1	5.6
8.50	16.2	61.8	-15.6	-30.7	102.1	1.0	23.5	20.2	5.6
9.00	16.3	64.5	-15.5	-29.7	139.4	1.0	23.0	20.1	5.5
9.50	16.2	61.6	-15.2	-27.6	100.0	1.0	23.0	20.3	5.4
10.00	16.2	61.5	-15.0	-26.5	100.0	1.0	23.0	20.3	5.3
10.50	16.1	60.0	-15.1	-26.2	85.1	1.0	22.8	20.3	5.3
11.00	16.1	59.6	-15.5	-27.4	81.8	1.0	22.7	20.3	5.2
11.50	16.0	61.2	-16.0	-29.0	99.2	1.0	22.5	20.1	5.1
12.00	16.0	59.9	-15.7	-27.7	86.7	1.0	22.4	20.0	5.1
12.50	15.9	57.4	-14.6	-24.3	65.3	1.0	22.2	20.0	5.0
13.00	15.8	58.2	-13.4	-21.5	71.4	1.0	22.1	20.0	4.9
13.50	15.7	56.7	-12.6	-19.9	60.4	1.0	21.9	19.7	4.9
14.00	15.7	57.4	-12.6	-19.5	65.4	1.0	21.8	19.8	4.8
14.50	15.8	57.8	-13.4	-20.2	68.8	1.0	21.4	19.7	4.6
15.00	15.9	58.1	-15.2	-22.4	72.5	1.0	21.2	19.6	4.7
15.50	16.0	58.0	-17.8	-25.9	72.0	1.0	21.0	19.3	4.7
16.00	16.0	57.9	-19.5	-26.5	71.3	1.0	20.8	19.1	4.7
16.50	16.0	58.1	-18.4	-22.6	72.8	1.0	20.3	19.0	4.7
17.00	16.0	56.8	-16.9	-17.7	62.4	1.0	19.9	19.1	4.7
17.50	15.9	56.9	-16.4	-17.7	63.5	1.0	19.5	19.0	4.7
18.00	15.8	58.8	-16.7	-17.0	80.7	1.0	19.2	19.1	4.9
18.50	15.7	58.8	-17.5	-17.0	82.1	1.0	19.0	18.9	5.0
19.00	15.5	62.2	-17.9	-17.5	123.9	1.0	18.6	18.6	5.2
19.50	15.3	58.9	-17.3	-18.3	86.9	1.0	18.2	18.4	5.4
20.00	15.0	57.2	-16.0	-18.8	74.1	1.0	18.2	18.2	5.6

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: VDD =+ 3.75V, IDD = 210mA @ 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)
1.00	14.2	69.3	-11.5	-6.3	179.7	0.9	21.2	15.0	6.0
2.00	17.4	72.5	-11.5	-18.9	267.6	1.1	26.1	16.1	5.5
2.25	17.4	62.4	-12.4	-20.5	85.7	1.0	26.5	16.2	5.6
2.50	17.4	64.6	-13.2	-22.1	111.3	1.0	25.9	16.2	4.9
2.75	17.5	70.0	-14.0	-23.6	210.4	1.0	25.8	16.1	5.4
3.00	17.5	66.7	-14.8	-24.9	143.7	1.0	26.0	16.1	5.4
3.25	17.6	64.1	-15.4	-25.9	107.0	1.0	26.2	16.1	5.4
3.50	17.6	64.1	-16.0	-26.2	107.7	1.0	25.6	16.1	5.4
3.75	17.7	65.7	-16.5	-26.3	128.6	1.0	25.8	16.1	5.4
4.00	17.7	63.8	-16.9	-26.1	103.9	1.0	25.4	16.0	5.4
4.25	17.8	63.3	-17.1	-26.0	97.3	1.0	25.8	16.0	5.3
4.50	17.8	78.3	-17.1	-25.5	547.4	1.0	25.8	16.1	5.3
4.75	17.9	63.4	-17.1	-25.5	98.0	1.0	25.7	16.1	5.3
5.00	18.0	62.1	-17.1	-25.5	84.0	1.0	25.7	16.1	5.2
6.00	18.4	60.7	-16.9	-24.2	68.2	1.0	25.7	16.3	5.0
6.50	18.5	62.4	-16.7	-24.2	82.2	1.0	25.1	16.3	4.9
7.00	18.6	64.8	-16.5	-24.6	108.1	1.0	25.2	16.3	4.8
7.50	18.7	61.8	-16.4	-25.6	75.7	1.0	24.8	16.5	4.7
8.00	18.8	61.8	-16.9	-27.1	74.7	1.0	24.9	16.4	4.6
8.50	18.9	62.9	-17.5	-28.0	84.1	1.0	24.5	16.4	4.5
9.00	19.0	62.4	-17.5	-27.2	78.9	1.0	24.7	16.4	4.4
9.50	19.1	62.1	-16.9	-25.7	75.8	1.0	24.3	16.4	4.3
10.00	19.1	61.9	-16.3	-24.5	74.0	1.0	24.1	16.3	4.2
10.50	19.0	63.1	-16.2	-23.7	85.4	1.0	24.2	16.3	4.2
11.00	19.0	59.0	-16.9	-24.0	53.7	1.0	23.9	16.4	4.1
11.50	19.0	60.2	-17.9	-25.3	62.3	1.0	23.5	16.3	4.0
12.00	19.0	57.2	-17.9	-26.2	44.4	1.0	23.5	16.3	4.0
12.50	18.9	57.5	-16.3	-24.4	46.1	1.0	24.7	16.2	3.9
13.00	18.8	56.5	-14.4	-20.8	40.9	1.0	24.5	16.1	3.8
13.50	18.7	58.1	-13.1	-18.3	49.2	1.0	24.5	16.1	3.8
14.00	18.7	56.8	-12.7	-17.2	42.3	1.0	24.6	16.1	3.7
14.50	18.8	59.7	-13.0	-17.1	59.3	1.0	23.2	15.8	3.6
15.00	18.9	56.7	-14.3	-18.7	42.0	1.0	23.3	16.0	3.5
15.50	19.0	57.6	-16.6	-21.8	47.1	1.0	23.4	16.0	3.5
16.00	19.2	56.2	-18.8	-24.3	40.0	1.0	23.4	15.9	3.4
16.50	19.3	58.0	-18.1	-21.0	48.5	1.0	23.3	15.8	3.4
17.00	19.3	57.9	-15.7	-17.6	47.0	1.0	23.1	15.7	3.4
17.50	19.3	56.4	-14.3	-15.6	38.6	1.0	22.7	15.7	3.3
18.00	19.4	57.1	-14.2	-14.9	41.5	1.0	23.6	15.7	3.4
18.50	19.5	57.1	-15.1	-14.9	41.0	1.0	23.3	15.4	3.4
19.00	19.6	57.7	-17.1	-15.6	44.1	1.0	23.1	15.2	3.4
19.50	19.8	59.4	-20.0	-16.6	54.0	1.0	22.6	14.7	3.5
20.00	19.7	55.7	-22.3	-17.4	36.1	1.0	22.6	14.2	3.7

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: VDD = +4.00V, IDD = 210mA @ 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)
1.00	13.9	71.1	-7.1	-6.3	229.3	0.9	24.2	15.9	6.1
2.00	17.1	68.5	-11.4	-18.9	175.9	1.1	28.3	16.9	5.6
2.25	17.0	62.2	-12.3	-20.5	87.9	1.1	28.3	17.0	5.6
2.50	17.1	65.8	-13.0	-22.1	134.3	1.0	28.2	17.0	5.5
2.75	17.1	65.4	-13.8	-23.6	129.1	1.0	28.0	17.1	5.5
3.00	17.1	66.4	-14.5	-24.8	145.6	1.0	27.9	17.1	5.5
3.25	17.2	64.7	-15.1	-25.7	120.4	1.0	28.0	17.0	5.4
3.50	17.2	63.6	-15.7	-26.1	105.6	1.0	27.8	17.0	5.4
3.75	17.3	66.2	-16.1	-26.1	143.0	1.0	27.4	17.0	5.4
4.00	17.3	67.1	-16.4	-26.1	159.4	1.0	27.6	17.0	5.4
4.25	17.3	63.8	-16.7	-25.8	108.9	1.0	28.3	17.0	5.3
4.50	17.4	62.2	-16.7	-25.6	89.9	1.0	27.4	17.1	5.3
4.75	17.4	64.6	-16.7	-25.4	118.1	1.0	26.9	16.9	5.3
5.00	17.5	61.8	-16.6	-25.4	84.5	1.0	27.2	17.1	5.2
6.00	17.9	60.4	-16.4	-24.1	69.1	1.0	26.7	17.2	5.0
6.50	18.0	63.3	-16.2	-24.1	96.0	1.0	26.7	17.3	4.9
7.00	18.1	64.6	-16.0	-24.6	110.9	1.0	26.5	17.3	4.8
7.50	18.2	60.9	-15.9	-25.6	72.1	1.0	26.3	17.4	4.6
8.00	18.3	63.0	-16.3	-27.1	90.9	1.0	26.2	17.4	4.6
8.50	18.4	62.1	-16.8	-28.0	81.2	1.0	25.9	17.6	4.5
9.00	18.5	66.1	-16.8	-27.1	127.5	1.0	25.8	17.4	4.4
9.50	18.5	61.2	-16.3	-24.5	72.9	1.0	25.5	17.5	4.3
10.00	18.5	59.6	-15.7	-24.5	60.5	1.0	26.1	17.4	4.2
10.50	18.5	60.3	-15.7	-23.8	66.1	1.0	25.7	17.4	4.1
11.00	18.5	57.6	-16.3	-24.1	48.6	1.0	25.2	17.4	4.1
11.50	18.4	58.3	-17.3	-25.4	53.6	1.0	25.0	17.4	4.1
12.00	18.4	58.9	-17.2	-26.4	57.5	1.0	24.9	17.4	3.9
12.50	18.3	57.8	-15.7	-24.3	51.3	1.0	24.7	17.3	3.9
13.00	18.2	58.5	-13.9	-20.8	54.8	1.0	24.6	17.2	3.8
13.50	18.2	57.3	-12.8	-18.3	47.6	1.0	24.4	17.2	3.7
14.00	18.1	57.2	-12.5	-17.3	47.3	1.0	24.4	17.2	3.6
14.50	18.2	58.7	-12.9	-17.3	56.1	1.0	24.3	17.1	3.6
15.00	18.3	59.0	-14.3	-19.0	58.7	1.0	24.2	17.0	3.5
15.50	18.5	57.2	-16.6	-22.2	47.8	1.0	24.0	16.9	3.4
16.00	18.6	55.6	-18.8	-24.7	39.6	1.0	23.8	16.8	3.4
16.50	18.7	57.2	-18.1	-21.1	47.1	1.0	23.0	16.8	3.4
17.00	18.8	55.8	-15.8	-17.8	39.1	1.0	23.4	16.7	3.4
17.50	18.7	56.2	-14.6	-15.8	40.5	1.0	23.0	16.6	3.3
18.00	18.7	55.5	-14.6	-15.1	37.1	1.0	22.9	16.8	3.4
18.50	18.8	57.9	-15.7	-15.2	49.2	1.0	22.6	16.4	3.4
19.00	18.9	57.7	-17.9	-15.9	48.6	1.0	22.0	16.2	3.5
19.50	19.0	57.7	-20.5	-17.0	49.2	1.0	21.8	15.8	3.6
20.00	18.8	57.0	-21.5	-17.7	46.3	1.0	22.0	15.5	3.8

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: VDD = +4.25V, IDD = 210mA @ Temperature = -45°C

FREQ (GHz)	Gain (dB)	Isolation (dB)	Input Return Loss (dB)	Output Return Loss (dB)	Stability		IP-3 Output (dBm)	1dB Comp. Output (dBm)	Noise Figure (dB)
					K	Measure			
1.00	13.5	75.7	-7.1	-6.3	405.4	0.9	24.3	16.7	6.1
2.00	16.7	70.0	-11.3	-18.9	220.6	1.1	28.3	17.9	5.6
2.25	16.6	67.0	-12.1	-20.5	158.1	1.1	27.6	17.9	5.6
2.50	16.7	62.8	-12.8	-22.1	99.4	1.0	27.9	18.0	5.8
2.75	16.7	68.9	-13.6	-23.6	201.1	1.0	27.7	17.9	5.5
3.00	16.7	62.8	-14.3	-24.9	100.7	1.0	27.3	18.0	5.5
3.25	16.8	67.5	-14.9	-25.8	174.3	1.0	27.8	18.0	5.5
3.50	16.8	68.7	-15.3	-26.1	200.0	1.0	27.0	18.0	5.5
3.75	16.8	64.4	-15.8	-26.2	121.6	1.0	26.9	17.9	5.4
4.00	16.9	62.2	-16.1	-26.0	94.4	1.0	27.1	18.0	5.4
4.25	16.9	62.0	-16.2	-25.8	92.2	1.0	26.6	18.0	5.4
4.50	16.9	61.7	-16.3	-25.6	89.1	1.0	26.9	18.1	5.4
4.75	17.0	64.2	-16.2	-25.4	118.2	1.0	27.2	18.1	5.3
5.00	17.1	63.5	-16.1	-25.3	108.8	1.0	27.0	18.1	5.3
6.00	17.4	61.8	-15.9	-24.2	85.3	1.0	26.0	18.2	5.1
6.50	17.5	62.4	-15.7	-24.1	91.3	1.0	26.3	18.4	4.9
7.00	17.6	62.6	-15.5	-24.7	93.0	1.0	25.8	18.4	4.8
7.50	17.7	63.6	-15.4	-25.8	103.7	1.0	25.8	18.5	4.7
8.00	17.8	64.0	-15.8	-27.3	107.2	1.0	25.8	18.5	4.6
8.50	17.9	62.8	-16.2	-28.2	93.8	1.0	25.4	18.5	4.5
9.00	18.0	64.3	-16.2	-27.3	110.7	1.0	25.5	18.4	4.4
9.50	18.0	61.2	-15.6	-25.7	77.6	1.0	25.2	18.6	4.3
10.00	17.9	62.3	-15.2	-24.6	87.5	1.0	25.2	18.6	4.3
10.50	17.9	59.3	-15.2	-24.0	62.7	1.0	25.1	18.6	4.2
11.00	17.9	60.0	-15.8	-24.4	68.6	1.0	24.8	18.5	4.1
11.50	17.8	59.3	-16.7	-25.8	64.3	1.0	24.7	18.6	4.1
12.00	17.8	58.1	-16.5	-26.6	56.4	1.0	24.2	18.6	4.0
12.50	17.7	59.1	-15.1	-24.3	63.7	1.0	24.0	18.5	3.9
13.00	17.6	57.6	-13.6	-20.8	53.4	1.0	23.9	18.4	3.8
13.50	17.5	57.3	-12.5	-18.5	51.0	1.0	24.1	18.2	3.8
14.00	17.5	59.0	-12.3	-17.5	61.9	1.0	24.0	18.2	3.6
14.50	17.6	57.4	-12.8	-17.6	51.9	1.0	23.8	18.2	3.6
15.00	17.7	59.8	-14.3	-19.4	68.8	1.0	23.6	18.2	3.5
15.50	17.9	57.9	-16.7	-22.9	55.6	1.0	23.5	18.0	3.5
16.00	18.0	58.3	-18.9	-25.3	58.2	1.0	23.3	17.9	3.4
16.50	18.1	57.2	-18.2	-21.4	50.6	1.0	22.9	17.8	3.4
17.00	18.1	56.5	-16.1	-18.0	46.2	1.0	22.8	17.7	3.4
17.50	18.1	58.8	-15.0	-16.1	59.3	1.0	22.5	17.7	3.4
18.00	18.0	57.9	-15.2	-15.5	53.6	1.0	22.3	17.8	3.5
18.50	18.1	56.5	-16.5	-15.6	46.3	1.0	21.7	17.6	3.6
19.00	18.1	58.5	-18.5	-16.3	59.0	1.0	21.9	17.3	3.6
19.50	18.0	58.8	-20.1	-17.4	62.2	1.0	21.2	16.9	3.8
20.00	17.8	55.8	-19.6	-18.1	45.3	1.0	21.2	16.7	4.0

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: VDD = +3.75V, IDD = 210mA @ 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)
1.00	11.5	78.4	-7.0	-6.7	714.8	0.9	26.5	16.7	8.6
2.00	14.7	70.1	-11.3	-19.3	280.4	1.1	26.4	18.1	7.9
2.25	14.7	65.3	-12.0	-20.8	164.9	1.1	26.1	18.5	7.7
2.50	14.7	67.1	-12.7	-22.4	206.4	1.0	26.0	18.6	7.7
2.75	14.7	66.8	-13.4	-23.8	199.4	1.0	26.1	18.8	7.6
3.00	14.7	62.6	-13.9	-25.1	123.8	1.0	25.8	18.7	7.6
3.25	14.8	61.5	-14.5	-26.3	110.2	1.0	25.7	19.1	7.5
3.50	14.8	65.8	-14.9	-27.3	181.5	1.0	25.6	18.8	7.5
3.75	14.8	62.4	-15.4	-28.0	122.4	1.0	25.5	18.9	7.4
4.00	14.9	66.3	-15.8	-28.4	192.0	1.0	25.3	18.9	7.4
4.25	14.9	64.7	-16.0	-28.4	159.4	1.0	25.0	18.9	7.4
4.50	14.9	63.6	-16.2	-28.3	140.7	1.0	24.8	18.6	7.5
4.75	15.0	60.2	-16.2	-27.9	95.2	1.0	24.8	19.2	7.3
5.00	15.1	60.7	-16.1	-27.7	99.6	1.0	24.5	18.5	7.2
6.00	15.3	62.6	-15.3	-25.5	120.8	1.0	24.0	18.1	7.1
6.50	15.4	61.7	-15.1	-25.4	108.7	1.0	23.8	18.9	6.9
7.00	15.5	64.6	-15.1	-26.1	151.5	1.0	23.9	19.0	6.8
7.50	15.6	62.4	-15.2	-27.3	117.5	1.0	23.6	19.1	6.7
8.00	15.7	66.3	-15.6	-29.4	182.8	1.0	23.5	19.0	6.6
8.50	15.7	63.0	-15.9	-31.3	125.4	1.0	23.3	19.0	6.4
9.00	15.7	60.9	-15.9	-31.4	97.9	1.0	23.2	19.0	6.4
9.50	15.7	66.6	-15.7	-30.0	190.5	1.0	23.1	19.3	6.3
10.00	15.7	60.7	-15.5	-29.0	97.5	1.0	23.0	19.3	6.2
10.50	15.6	59.3	-15.5	-28.3	83.6	1.0	22.9	19.3	6.1
11.00	15.6	61.8	-15.8	-29.0	113.1	1.0	22.7	19.3	6.1
11.50	15.5	59.3	-16.1	-30.0	85.8	1.0	22.5	18.8	6.0
12.00	15.4	59.2	-15.9	-28.0	85.7	1.0	22.2	18.7	6.1
12.50	15.4	56.7	-14.9	-24.7	64.7	1.0	21.9	18.7	5.9
13.00	15.3	56.8	-13.7	-22.1	65.5	1.0	22.0	18.9	5.9
13.50	15.2	59.4	-13.0	-20.8	87.8	1.0	21.8	18.5	5.7
14.00	15.2	58.2	-13.0	-20.6	76.7	1.0	21.6	18.7	5.8
14.50	15.3	57.3	-14.0	-21.7	70.0	1.0	21.3	18.6	5.7
15.00	15.4	58.3	-15.9	-24.4	79.4	1.0	21.1	18.5	5.7
15.50	15.4	57.3	-18.3	-28.7	71.7	1.0	20.8	18.2	5.7
16.00	15.5	58.3	-19.4	-26.9	80.6	1.0	20.3	18.0	5.6
16.50	15.5	60.3	-18.2	-22.3	100.9	1.0	20.2	18.0	5.7
17.00	15.4	57.6	-16.8	-19.5	74.3	1.0	19.8	18.2	5.7
17.50	15.3	57.4	-16.3	-17.9	72.5	1.0	19.4	18.0	5.7
18.00	15.2	60.1	-16.6	-17.3	100.8	1.0	19.1	18.2	5.9
18.50	15.1	58.5	-17.3	-17.5	84.9	1.0	18.7	17.9	6.0
19.00	15.0	58.8	-17.8	-18.3	90.2	1.0	18.3	17.6	6.2
19.50	14.8	61.6	-17.5	-19.4	127.3	1.0	18.0	17.5	6.4
20.00	14.6	58.2	-16.5	-20.1	89.6	1.0	17.9	17.4	6.6

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: VDD = +4.00V, IDD = 210mA @ Temperature = +85°C

FREQ (GHz)	Gain (dB)	Isolation (dB)	Input Return Loss (dB)	Output Return Loss (dB)	Stability		IP-3 Output (dBm)	1dB Comp. Output (dBm)	Noise Figure (dB)
					K	Measure			
1.00	11.3	77.6	-7.0	-6.7	670.9	0.9	26.7	17.3	8.7
2.00	14.4	69.9	-11.2	-19.4	281.7	1.1	27.1	18.7	7.8
2.25	14.4	64.3	-12.0	-21.0	150.9	1.1	26.0	19.0	7.7
2.50	14.4	68.0	-12.7	-22.5	234.0	1.0	26.2	19.1	7.7
2.75	14.5	68.7	-13.3	-24.0	255.3	1.0	26.0	19.3	7.6
3.00	14.5	62.4	-13.8	-25.3	125.6	1.0	25.7	19.2	7.6
3.25	14.5	64.3	-14.4	-26.6	156.3	1.0	25.5	19.5	7.6
3.50	14.5	66.2	-14.8	-27.6	194.9	1.0	25.6	19.3	7.6
3.75	14.6	65.9	-15.3	-28.3	189.3	1.0	25.5	19.4	7.5
4.00	14.6	63.6	-15.6	-28.7	145.0	1.0	25.1	19.3	7.5
4.25	14.6	62.0	-15.9	-28.8	121.3	1.0	25.0	19.3	7.5
4.50	14.7	62.4	-16.1	-28.7	126.1	1.0	24.6	19.3	7.5
4.75	14.7	68.4	-16.1	-28.3	252.5	1.0	24.7	19.5	7.4
5.00	14.8	66.2	-15.9	-27.9	194.1	1.0	24.4	19.1	7.4
6.00	15.1	63.0	-15.2	-25.9	130.8	1.0	23.9	18.8	7.1
6.50	15.1	65.1	-15.0	-25.7	167.2	1.0	23.9	19.4	6.9
7.00	15.2	62.4	-14.9	-26.4	121.5	1.0	23.6	19.5	6.9
7.50	15.3	60.0	-15.1	-27.7	91.5	1.0	23.6	19.6	6.7
8.00	15.3	63.2	-15.4	-29.8	132.7	1.0	23.2	19.5	6.6
8.50	15.4	63.5	-15.7	-31.8	136.7	1.0	22.9	19.5	6.5
9.00	15.4	61.8	-15.7	-32.2	112.4	1.0	22.9	19.5	6.4
9.50	15.4	60.1	-15.5	-30.6	93.8	1.0	22.8	19.7	6.4
10.00	15.3	62.0	-15.4	-29.6	117.7	1.0	22.8	19.8	6.3
10.50	15.3	59.5	-15.4	-29.0	89.2	1.0	22.6	19.7	6.2
11.00	15.2	60.3	-15.7	-29.7	98.8	1.0	22.5	19.7	6.2
11.50	15.2	60.4	-16.0	-30.8	100.5	1.0	22.2	19.4	6.1
12.00	15.1	59.6	-15.7	-28.4	92.6	1.0	22.2	19.2	6.1
12.50	15.0	59.7	-14.8	-25.0	94.4	1.0	22.1	19.2	6.0
13.00	14.9	59.8	-13.6	-22.5	95.7	1.0	21.8	19.3	5.9
13.50	14.9	58.1	-13.0	-21.0	78.6	1.0	21.6	18.9	5.8
14.00	14.9	56.7	-13.0	-20.9	67.7	1.0	21.6	19.2	5.8
14.50	14.9	58.4	-14.0	-22.1	82.9	1.0	21.1	19.1	5.8
15.00	15.0	58.1	-16.0	-25.0	81.2	1.0	20.9	18.9	5.7
15.50	15.1	58.4	-18.4	-29.6	84.5	1.0	20.6	18.7	5.8
16.00	15.1	58.1	-19.5	-27.4	82.4	1.0	20.3	18.5	5.7
16.50	15.1	58.9	-18.4	-22.6	90.3	1.0	19.8	18.4	5.8
17.00	15.0	59.1	-17.0	-19.7	92.2	1.0	19.7	18.6	5.8
17.50	14.9	59.2	-16.6	-18.2	93.8	1.0	19.3	18.4	5.9
18.00	14.8	58.9	-16.7	-17.5	92.9	1.0	18.9	18.6	5.9
18.50	14.6	58.8	-17.3	-17.8	93.5	1.0	18.7	18.4	6.2
19.00	14.5	60.5	-17.4	-18.5	115.7	1.0	18.1	18.1	6.4
19.50	14.3	60.0	-16.9	-19.6	112.6	1.0	17.9	17.8	6.5
20.00	14.0	59.8	-15.9	-20.3	114.6	1.0	17.7	17.8	6.7

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: VDD = +4.25V, IDD = 210mA @ 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)
1.00	11.1	66.8	-7.0	-6.7	197.8	0.9	26.6	17.7	8.7
2.00	14.2	69.7	-11.2	-19.5	285.6	1.1	26.6	19.2	7.9
2.25	14.2	67.0	-11.9	-21.1	212.5	1.1	26.5	19.4	7.8
2.50	14.2	67.9	-12.6	-22.7	238.3	1.0	26.3	19.5	7.8
2.75	14.2	72.2	-13.2	-24.2	395.1	1.0	26.1	19.6	7.7
3.00	14.2	66.5	-13.8	-25.6	206.2	1.0	25.8	19.6	7.7
3.25	14.3	64.3	-14.3	-26.9	161.1	1.0	25.6	19.8	7.7
3.50	14.3	63.7	-14.7	-27.9	150.2	1.0	25.3	19.6	7.7
3.75	14.3	64.8	-15.1	-28.6	171.5	1.0	25.5	19.7	7.6
4.00	14.4	60.9	-15.5	-29.0	109.6	1.0	24.9	19.6	7.6
4.25	14.4	71.0	-15.8	-29.1	349.9	1.0	25.2	19.6	7.5
4.50	14.4	63.2	-15.9	-29.0	143.3	1.0	24.5	19.6	7.5
4.75	14.4	62.5	-15.9	-28.6	131.9	1.0	24.2	19.8	7.5
5.00	14.5	60.6	-15.8	-28.3	104.9	1.0	24.3	19.5	7.4
6.00	14.8	60.1	-15.0	-26.1	97.0	1.0	23.9	19.3	7.2
6.50	14.8	60.8	-14.8	-26.1	104.7	1.0	23.7	19.8	7.0
7.00	14.9	64.4	-14.8	-26.7	158.2	1.0	23.4	19.9	6.9
7.50	15.0	61.3	-14.9	-28.1	109.7	1.0	23.5	20.0	6.8
8.00	15.0	63.1	-15.3	-30.3	134.8	1.0	23.1	19.8	6.7
8.50	15.1	59.4	-15.6	-32.6	88.0	1.0	23.1	19.9	6.6
9.00	15.1	60.3	-15.6	-33.0	98.9	1.0	23.0	19.9	6.5
9.50	15.1	59.9	-15.4	-31.3	95.1	1.0	22.8	20.1	6.5
10.00	15.0	61.7	-15.2	-30.2	117.2	1.0	22.7	20.1	6.4
10.50	14.9	62.2	-15.2	-29.6	126.1	1.0	22.4	20.1	6.3
11.00	14.9	60.9	-15.5	-30.3	109.4	1.0	22.5	20.0	6.2
11.50	14.8	58.3	-15.8	-31.4	82.4	1.0	22.3	19.8	6.2
12.00	14.8	58.2	-15.6	-28.9	81.8	1.0	22.1	19.6	6.1
12.50	14.7	56.8	-14.6	-25.4	70.3	1.0	21.8	19.7	6.1
13.00	14.6	58.4	-13.6	-22.8	84.6	1.0	21.7	19.7	6.0
13.50	14.5	58.2	-12.9	-21.4	83.2	1.0	21.6	19.4	6.0
14.00	14.5	58.5	-13.0	-21.3	86.2	1.0	21.5	19.6	5.9
14.50	14.6	57.8	-14.1	-22.5	80.6	1.0	21.0	19.5	5.8
15.00	14.6	59.4	-16.0	-25.7	98.5	1.0	20.9	19.3	5.8
15.50	14.7	56.8	-18.5	-30.8	73.6	1.0	20.5	19.1	5.8
16.00	14.7	58.0	-19.7	-28.0	84.2	1.0	20.2	18.8	5.8
16.50	14.7	58.2	-18.5	-22.9	86.9	1.0	19.8	18.8	5.9
17.00	14.6	59.5	-17.2	-20.0	102.0	1.0	19.6	18.9	5.9
17.50	14.5	59.2	-16.8	-18.4	98.6	1.0	19.3	18.8	6.0
18.00	14.3	56.7	-16.8	-17.8	75.2	1.0	18.8	18.9	6.1
18.50	14.2	58.0	-17.2	-18.0	90.1	1.0	18.6	18.7	6.2
19.00	14.0	61.0	-17.0	-18.7	129.5	1.0	18.2	18.4	6.5
19.50	13.8	62.8	-16.4	-19.8	165.5	1.0	17.9	18.2	6.7
20.00	13.5	58.9	-15.3	-20.6	108.7	1.0	17.8	18.1	6.9