

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: V_{DD} = +4.75 V, I_{DD} = 53 mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output P _{OUT} = +5 dBm/Tone	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.02	20.8	-25.2	-13.5	-19.8	1.1	0.7	28.8	16.4	4.0
0.03	21.1	-24.7	-15.3	-21.2	1.1	0.6	30.0	17.2	2.5
0.04	21.3	-24.6	-16.5	-22.3	1.1	0.6	29.5	17.9	1.7
0.05	21.3	-24.5	-17.3	-23.0	1.0	0.5	29.4	18.1	1.5
0.1	21.5	-24.2	-18.6	-26.9	1.0	0.5	30.8	19.6	1.2
0.3	21.6	-24.1	-19.2	-29.9	1.0	0.4	30.3	20.2	0.9
0.5	21.6	-24.2	-19.1	-28.7	1.0	0.5	29.5	20.3	1.0
0.7	21.6	-24.3	-18.8	-26.9	1.0	0.5	29.8	20.4	0.8
1.0	21.6	-24.3	-18.0	-24.7	1.0	0.5	30.8	20.4	0.9
1.2	21.6	-24.4	-17.3	-23.3	1.0	0.5	30.2	20.5	0.9
1.4	21.5	-24.4	-16.6	-22.2	1.0	0.5	29.3	20.4	0.9
1.6	21.5	-24.5	-15.7	-21.2	1.1	0.5	29.5	20.4	0.9
1.8	21.5	-24.6	-14.9	-20.1	1.1	0.5	29.4	20.4	0.9
2.0	21.5	-24.6	-14.2	-19.1	1.1	0.5	28.6	20.3	0.9
2.2	21.4	-24.7	-13.4	-18.0	1.1	0.6	29.5	20.3	1.0
2.4	21.4	-24.8	-12.7	-16.9	1.1	0.6	27.9	20.3	1.0
2.6	21.4	-24.9	-12.0	-16.1	1.1	0.6	27.2	20.3	1.0
2.8	21.4	-25.0	-11.5	-15.4	1.1	0.6	28.2	20.2	1.0
3.0	21.4	-25.1	-11.2	-14.9	1.1	0.6	26.8	20.1	1.0
3.2	21.3	-25.2	-10.9	-14.5	1.1	0.6	27.4	19.8	1.0
3.4	21.3	-25.3	-10.8	-14.4	1.1	0.6	26.9	19.6	1.0
3.6	21.3	-25.3	-10.8	-14.4	1.1	0.6	27.1	19.4	1.0
3.8	21.4	-25.5	-11.1	-14.6	1.1	0.6	27.8	19.7	1.1
4.0	21.4	-25.4	-11.4	-15.0	1.1	0.6	27.0	19.2	1.1
4.2	21.4	-25.5	-12.0	-15.7	1.1	0.6	27.3	19.3	1.1
4.4	21.5	-25.6	-12.6	-16.3	1.1	0.6	26.6	19.2	1.0
4.6	21.6	-25.7	-13.3	-17.1	1.1	0.7	25.4	19.2	1.0
4.8	21.6	-25.7	-14.1	-17.9	1.1	0.7	27.0	19.5	1.1
5.0	21.7	-25.7	-14.8	-18.5	1.1	0.7	25.8	19.3	1.1
5.2	21.8	-25.7	-15.2	-19.1	1.1	0.7	26.2	19.3	1.1
5.4	21.9	-25.8	-15.4	-19.8	1.1	0.7	26.0	19.1	1.1
5.6	21.9	-25.9	-15.3	-20.7	1.1	0.7	25.9	18.7	1.2
5.8	21.9	-26.0	-14.8	-22.2	1.1	0.7	26.3	18.4	1.1
6.0	22.0	-26.2	-14.0	-24.8	1.1	0.7	26.2	18.7	1.2
6.2	22.0	-26.3	-13.0	-27.3	1.1	0.7	25.5	18.6	1.2
6.4	22.0	-26.5	-11.9	-25.7	1.1	0.7	26.7	18.1	1.2
6.6	21.9	-26.7	-10.9	-21.7	1.2	0.8	26.1	18.4	1.3
6.8	21.9	-26.9	-9.9	-18.3	1.2	0.8	26.0	18.2	1.3
7.0	21.8	-27.1	-9.1	-15.8	1.2	0.8	26.0	18.4	1.3
7.2	21.8	-27.4	-8.4	-13.9	1.2	0.8	26.4	18.6	1.3
7.4	21.8	-27.7	-7.8	-12.6	1.2	0.8	26.2	19.0	1.3
7.6	21.8	-27.9	-7.4	-11.6	1.2	0.8	25.6	18.8	1.3
7.8	21.8	-28.1	-7.2	-10.9	1.2	0.8	25.6	19.2	1.3
8.0	21.9	-28.5	-7.1	-10.4	1.2	0.8	25.1	18.9	1.3
8.2	22.0	-28.5	-7.2	-10.2	1.2	0.8	25.4	18.5	1.3
8.4	22.1	-28.8	-7.5	-10.1	1.3	0.8	25.6	18.4	1.3
8.6	22.3	-28.9	-7.9	-10.1	1.3	0.8	25.5	18.3	1.3
8.8	22.5	-29.0	-8.6	-10.2	1.3	0.8	24.5	18.3	1.2
9.0	22.6	-29.3	-9.6	-10.4	1.4	0.8	24.9	18.8	1.3
9.2	22.7	-29.6	-10.9	-10.5	1.4	0.8	24.7	18.0	1.4
9.4	22.7	-29.9	-12.6	-10.5	1.5	0.8	24.3	18.4	1.5
9.6	22.6	-30.3	-14.6	-10.3	1.5	0.8	24.9	18.4	1.6
9.8	22.4	-30.7	-16.3	-9.8	1.6	0.8	25.2	17.5	1.7
10.0	22.1	-31.6	-16.6	-9.3	1.8	0.8	24.5	17.8	1.9

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Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: V_{DD} = +5 V, I_{DD} = 59 mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output P _{OUT} = +5 dBm/Tone	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.02	21.3	-25.5	-14.9	-19.1	1.1	0.7	30.6	17.3	3.9
0.03	21.5	-25.1	-17.1	-19.6	1.1	0.6	31.0	18.1	2.4
0.04	21.7	-25.0	-18.7	-20.2	1.0	0.5	30.9	18.7	1.6
0.05	21.7	-24.8	-19.7	-20.7	1.0	0.5	30.2	19.0	1.4
0.1	21.9	-24.5	-21.5	-23.9	1.0	0.5	31.5	20.4	1.1
0.3	22.0	-24.5	-22.5	-25.6	1.0	0.4	31.3	20.9	0.8
0.5	22.0	-24.5	-22.2	-25.3	1.0	0.4	31.0	21.0	0.8
0.7	22.0	-24.5	-22.0	-24.4	1.0	0.5	30.9	21.1	0.8
1.0	22.0	-24.6	-20.7	-23.0	1.0	0.5	32.0	21.1	0.9
1.2	22.0	-24.7	-19.8	-22.0	1.0	0.5	31.3	21.2	0.9
1.4	22.0	-24.7	-18.9	-21.6	1.0	0.5	30.5	21.1	0.8
1.6	22.0	-24.7	-17.8	-20.8	1.0	0.5	30.7	21.2	0.8
1.8	21.9	-24.8	-16.8	-20.4	1.1	0.5	30.5	21.2	0.8
2.0	21.9	-24.9	-15.8	-19.7	1.1	0.5	30.0	21.0	0.8
2.2	21.9	-25.0	-14.9	-18.8	1.1	0.5	30.5	21.1	0.9
2.4	21.9	-25.1	-14.0	-17.8	1.1	0.5	29.1	21.1	0.9
2.6	21.9	-25.2	-13.3	-17.0	1.1	0.5	28.6	21.0	0.9
2.8	21.9	-25.2	-12.7	-16.2	1.1	0.5	29.5	20.9	0.9
3.0	21.8	-25.3	-12.3	-15.7	1.1	0.6	28.2	20.8	0.9
3.2	21.8	-25.4	-12.0	-15.3	1.1	0.6	28.8	20.6	1.0
3.4	21.8	-25.5	-11.9	-15.1	1.1	0.6	28.3	20.5	1.0
3.6	21.8	-25.6	-11.9	-14.9	1.1	0.6	28.4	20.4	1.0
3.8	21.8	-25.6	-12.1	-15.1	1.1	0.6	29.0	20.7	0.9
4.0	21.8	-25.7	-12.5	-15.3	1.1	0.6	28.3	20.4	1.0
4.2	21.9	-25.7	-13.1	-15.8	1.1	0.6	28.5	20.5	1.0
4.4	21.9	-25.8	-13.8	-16.0	1.1	0.6	27.9	20.4	1.0
4.6	22.0	-25.8	-14.6	-16.5	1.1	0.6	26.9	20.4	1.0
4.8	22.0	-25.9	-15.4	-16.7	1.1	0.6	28.2	20.6	1.0
5.0	22.1	-26.0	-16.1	-17.0	1.1	0.6	27.1	20.4	1.0
5.2	22.2	-26.0	-16.6	-17.2	1.1	0.6	27.4	20.2	0.9
5.4	22.2	-26.1	-16.8	-17.6	1.1	0.6	27.3	20.0	1.0
5.6	22.3	-26.1	-16.6	-18.2	1.1	0.6	27.1	19.6	1.0
5.8	22.3	-26.3	-16.0	-19.3	1.1	0.7	27.3	19.2	1.1
6.0	22.4	-26.3	-15.1	-21.0	1.1	0.7	27.3	19.4	1.1
6.2	22.4	-26.5	-14.1	-22.9	1.1	0.7	26.7	19.3	1.2
6.4	22.4	-26.6	-12.9	-24.9	1.1	0.7	27.6	18.8	1.3
6.6	22.4	-26.8	-11.8	-23.2	1.1	0.7	27.1	19.0	1.3
6.8	22.3	-27.0	-10.8	-19.9	1.1	0.8	27.0	18.8	1.3
7.0	22.3	-27.2	-9.8	-17.1	1.2	0.8	27.0	19.0	1.3
7.2	22.2	-27.5	-9.0	-14.9	1.2	0.8	27.3	19.2	1.3
7.4	22.2	-27.7	-8.4	-13.4	1.2	0.8	27.2	19.6	1.4
7.6	22.2	-28.1	-7.9	-12.1	1.2	0.8	26.5	19.3	1.4
7.8	22.2	-28.4	-7.6	-11.4	1.2	0.8	26.5	19.7	1.4
8.0	22.2	-28.5	-7.5	-10.7	1.2	0.8	26.0	19.5	1.3
8.2	22.3	-28.8	-7.5	-10.3	1.2	0.8	26.1	19.1	1.3
8.4	22.4	-29.0	-7.7	-10.1	1.3	0.8	26.3	19.0	1.3
8.6	22.6	-29.2	-8.2	-10.0	1.3	0.8	26.1	18.8	1.3
8.8	22.7	-29.4	-8.8	-10.0	1.3	0.8	25.3	18.9	1.3
9.0	22.8	-29.6	-9.8	-10.2	1.4	0.8	25.7	19.4	1.3
9.2	22.9	-29.8	-11.1	-10.2	1.4	0.8	25.3	18.6	1.4
9.4	23.0	-30.1	-13.0	-10.2	1.4	0.8	25.0	19.1	1.5
9.6	22.9	-30.6	-15.2	-10.0	1.5	0.8	25.4	18.9	1.6
9.8	22.7	-30.9	-17.3	-9.6	1.6	0.8	25.6	17.9	1.8
10.0	22.4	-31.8	-17.7	-9.1	1.7	0.8	25.0	18.2	1.9

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Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: V_{DD} = +5.25 V, I_{DD} = 67 mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output P _{OUT} = +5 dBm/Tone	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.02	21.6	-26.0	-16.4	-17.5	1.1	0.7	31.4	18.1	4.1
0.03	21.9	-25.6	-19.4	-17.8	1.1	0.6	33.4	18.8	2.5
0.04	22.0	-25.4	-21.4	-18.1	1.1	0.5	31.6	19.4	1.8
0.05	22.1	-25.1	-22.9	-18.6	1.0	0.5	31.9	19.7	1.5
0.1	22.3	-24.9	-25.7	-20.4	1.0	0.5	32.7	21.0	1.2
0.3	22.3	-24.9	-27.1	-21.6	1.0	0.4	33.4	21.5	0.9
0.5	22.3	-24.8	-26.1	-21.4	1.0	0.4	32.6	21.5	0.9
0.7	22.3	-24.9	-25.1	-21.1	1.0	0.5	32.5	21.6	0.9
1.0	22.3	-25.0	-23.1	-20.6	1.0	0.5	33.5	21.7	0.9
1.2	22.3	-25.0	-21.9	-20.2	1.0	0.5	32.2	21.7	0.9
1.4	22.3	-25.0	-20.6	-20.1	1.0	0.5	31.7	21.6	0.8
1.6	22.3	-25.1	-19.3	-19.8	1.0	0.5	31.9	21.7	0.9
1.8	22.3	-25.2	-18.2	-19.6	1.1	0.5	31.6	21.6	0.9
2.0	22.3	-25.3	-17.2	-19.2	1.1	0.5	31.1	21.5	0.9
2.2	22.3	-25.3	-16.1	-18.7	1.1	0.5	31.8	21.6	1.0
2.4	22.2	-25.4	-15.1	-18.0	1.1	0.5	30.3	21.5	1.0
2.6	22.2	-25.5	-14.3	-17.3	1.1	0.5	30.0	21.4	0.9
2.8	22.2	-25.5	-13.6	-16.6	1.1	0.6	30.4	21.3	1.0
3.0	22.2	-25.7	-13.2	-16.0	1.1	0.6	29.4	21.1	1.0
3.2	22.2	-25.7	-12.8	-15.6	1.1	0.6	29.9	21.1	1.0
3.4	22.2	-25.9	-12.7	-15.3	1.1	0.6	29.5	21.0	1.1
3.6	22.2	-25.9	-12.7	-15.1	1.1	0.6	29.4	21.0	1.1
3.8	22.2	-26.0	-13.0	-15.1	1.1	0.6	29.9	21.3	1.0
4.0	22.2	-26.0	-13.4	-15.2	1.1	0.6	29.3	21.1	1.0
4.2	22.2	-26.0	-14.1	-15.4	1.1	0.6	29.6	21.2	1.1
4.4	22.2	-26.2	-14.9	-15.5	1.1	0.6	28.8	21.1	1.1
4.6	22.3	-26.2	-15.8	-15.6	1.1	0.6	28.1	21.1	1.1
4.8	22.3	-26.2	-16.8	-15.7	1.1	0.6	29.0	21.2	1.1
5.0	22.4	-26.3	-17.7	-15.7	1.1	0.6	28.2	20.9	1.1
5.2	22.4	-26.3	-18.4	-15.7	1.1	0.6	28.1	20.8	1.1
5.4	22.5	-26.5	-18.6	-15.9	1.1	0.6	28.0	20.6	1.1
5.6	22.5	-26.4	-18.5	-16.4	1.1	0.6	27.8	20.1	1.1
5.8	22.6	-26.6	-17.6	-17.3	1.1	0.7	27.9	19.8	1.1
6.0	22.6	-26.6	-16.5	-18.8	1.1	0.7	27.9	19.8	1.2
6.2	22.6	-26.9	-15.1	-20.9	1.1	0.7	27.2	19.7	1.2
6.4	22.6	-27.0	-13.8	-23.1	1.1	0.7	27.9	19.3	1.2
6.6	22.6	-27.1	-12.5	-23.3	1.2	0.7	27.4	19.4	1.2
6.8	22.5	-27.3	-11.3	-20.5	1.2	0.8	27.3	19.2	1.3
7.0	22.5	-27.6	-10.3	-17.6	1.2	0.8	27.3	19.4	1.3
7.2	22.4	-27.8	-9.4	-15.4	1.2	0.8	27.7	19.6	1.3
7.4	22.4	-28.2	-8.8	-13.7	1.2	0.8	27.6	20.0	1.3
7.6	22.4	-28.4	-8.3	-12.5	1.2	0.8	27.0	19.7	1.3
7.8	22.4	-28.7	-8.0	-11.6	1.3	0.8	27.0	20.1	1.3
8.0	22.4	-28.9	-8.0	-11.0	1.3	0.8	26.3	19.9	1.3
8.2	22.5	-29.1	-8.1	-10.6	1.3	0.8	26.6	19.5	1.3
8.4	22.6	-29.4	-8.4	-10.4	1.3	0.8	26.5	19.4	1.3
8.6	22.7	-29.6	-8.9	-10.3	1.4	0.8	26.3	19.3	1.3
8.8	22.8	-29.8	-9.7	-10.3	1.4	0.8	25.6	19.3	1.3
9.0	22.9	-29.9	-10.9	-10.4	1.4	0.8	26.0	19.8	1.3
9.2	23.0	-30.4	-12.4	-10.3	1.5	0.8	25.4	19.1	1.4
9.4	22.9	-30.8	-14.4	-10.2	1.5	0.8	25.3	19.5	1.5
9.6	22.9	-31.1	-17.0	-9.9	1.6	0.8	25.3	19.5	1.7
9.8	22.7	-31.8	-19.1	-9.4	1.7	0.8	25.5	18.6	1.7
10.0	22.4	-32.2	-18.8	-8.9	1.8	0.8	25.0	19.0	1.9

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Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +5\text{ V}$, $I_{DD} = 69\text{ mA}$ @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output $P_{OUT} = +5$ dBm/Tone	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.02	22.1	-26.2	-18.3	-15.6	1.1	0.6	33.1	17.3	3.1
0.03	22.3	-25.9	-22.4	-15.3	1.1	0.6	34.2	18.0	1.5
0.04	22.4	-25.7	-25.8	-15.4	1.0	0.5	36.1	18.6	1.0
0.05	22.5	-25.8	-28.0	-15.6	1.0	0.5	32.9	18.8	0.9
0.1	22.7	-25.5	-32.0	-17.1	1.0	0.4	35.3	20.2	0.7
0.3	22.9	-25.2	-33.5	-18.1	1.0	0.4	34.6	20.5	0.5
0.5	22.9	-25.3	-31.4	-18.1	1.0	0.4	33.7	20.6	0.6
0.7	22.9	-25.3	-30.2	-17.8	1.0	0.4	33.5	20.7	0.5
1.0	22.8	-25.4	-27.5	-17.6	1.0	0.4	34.9	20.7	0.6
1.2	22.9	-25.4	-26.6	-17.5	1.0	0.4	34.1	20.8	0.5
1.4	22.9	-25.4	-25.3	-17.5	1.0	0.4	33.1	20.7	0.5
1.6	22.9	-25.4	-23.5	-17.4	1.0	0.4	33.4	20.7	0.5
1.8	22.9	-25.5	-22.3	-17.7	1.0	0.5	32.6	20.7	0.5
2.0	22.9	-25.5	-20.9	-17.9	1.0	0.5	32.7	20.6	0.5
2.2	22.9	-25.6	-19.6	-17.9	1.0	0.5	33.0	20.7	0.5
2.4	22.9	-25.6	-18.4	-17.6	1.0	0.5	31.4	20.7	0.5
2.6	22.9	-25.7	-17.4	-17.3	1.0	0.5	31.0	20.6	0.5
2.8	22.9	-25.8	-16.5	-16.8	1.0	0.5	31.9	20.5	0.5
3.0	22.9	-25.8	-16.0	-16.4	1.0	0.5	30.7	20.4	0.5
3.2	22.9	-25.9	-15.6	-16.0	1.0	0.5	31.2	20.3	0.5
3.4	22.9	-26.0	-15.4	-15.8	1.0	0.5	30.8	20.1	0.5
3.6	22.9	-26.0	-15.3	-15.3	1.0	0.5	30.8	20.2	0.5
3.8	22.9	-26.0	-15.6	-15.3	1.0	0.5	31.3	20.6	0.5
4.0	22.9	-26.2	-16.1	-15.1	1.1	0.5	30.9	20.5	0.5
4.2	22.9	-26.3	-16.9	-15.2	1.1	0.6	31.2	20.5	0.5
4.4	22.9	-26.2	-17.9	-15.0	1.1	0.6	30.4	20.3	0.6
4.6	22.9	-26.4	-19.2	-14.9	1.1	0.6	29.6	20.5	0.6
4.8	23.0	-26.4	-20.8	-14.5	1.1	0.6	30.6	20.4	0.6
5.0	23.0	-26.4	-22.0	-14.4	1.1	0.5	29.5	20.1	0.5
5.2	23.1	-26.4	-23.4	-14.1	1.1	0.5	29.8	20.3	0.6
5.4	23.2	-26.5	-23.8	-14.1	1.1	0.5	29.3	20.1	0.6
5.6	23.3	-26.5	-24.0	-14.1	1.0	0.5	28.8	19.8	0.6
5.8	23.3	-26.6	-22.9	-14.5	1.1	0.6	29.1	19.4	0.6
6.0	23.4	-26.5	-21.3	-15.3	1.0	0.5	29.1	19.3	0.7
6.2	23.5	-26.6	-19.5	-16.2	1.0	0.6	29.1	19.1	0.8
6.4	23.6	-26.6	-17.3	-17.8	1.0	0.6	30.4	18.5	0.8
6.6	23.6	-26.8	-15.5	-19.5	1.1	0.6	29.9	18.7	0.8
6.8	23.6	-26.9	-13.8	-21.1	1.1	0.6	29.9	18.3	0.8
7.0	23.7	-27.0	-12.3	-20.4	1.1	0.6	30.1	18.5	0.8
7.2	23.7	-27.2	-11.0	-18.7	1.1	0.6	30.4	18.7	0.8
7.4	23.7	-27.4	-10.0	-16.8	1.1	0.7	30.3	19.1	0.8
7.6	23.6	-27.6	-9.2	-14.9	1.1	0.7	29.5	18.7	0.8
7.8	23.6	-28.0	-8.6	-13.8	1.1	0.7	29.6	19.2	0.8
8.0	23.7	-28.1	-8.2	-12.7	1.1	0.7	29.4	18.8	0.8
8.2	23.7	-28.3	-8.0	-12.0	1.1	0.7	29.0	18.4	0.8
8.4	23.8	-28.5	-7.9	-11.4	1.1	0.7	29.5	18.4	0.8
8.6	23.9	-28.8	-8.0	-11.1	1.1	0.7	29.9	18.3	0.8
8.8	24.1	-29.1	-8.3	-11.0	1.1	0.7	28.7	18.3	0.8
9.0	24.2	-29.2	-8.8	-11.0	1.1	0.7	29.0	19.1	0.8
9.2	24.4	-29.5	-9.6	-11.0	1.2	0.7	29.2	18.2	0.8
9.4	24.6	-29.7	-10.7	-11.0	1.2	0.7	28.4	18.7	0.9
9.6	24.8	-30.0	-12.4	-10.8	1.2	0.7	29.4	18.6	1.0
9.8	24.9	-30.1	-15.0	-10.3	1.2	0.7	29.7	17.6	1.1
10.0	25.0	-30.7	-18.9	-9.7	1.2	0.7	29.2	17.9	1.1

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: V_{DD} = +5 V, I_{DD} = 60 mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output P _{OUT} = +5 dBm/Tone	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.02	20.9	-25.1	-13.9	-19.8	1.1	0.7	28.3	16.4	4.7
0.03	21.1	-24.8	-15.9	-21.1	1.1	0.6	29.8	17.2	3.2
0.04	21.3	-24.7	-17.0	-22.1	1.1	0.6	29.5	17.8	2.4
0.05	21.4	-24.6	-17.9	-22.9	1.0	0.5	29.3	17.9	2.0
0.1	21.6	-24.2	-19.3	-26.9	1.0	0.5	30.4	19.2	1.6
0.3	21.6	-24.2	-20.0	-29.2	1.0	0.5	31.0	19.8	1.2
0.5	21.6	-24.2	-19.7	-28.0	1.0	0.5	30.2	19.9	1.2
0.7	21.6	-24.3	-19.4	-26.4	1.0	0.5	30.3	19.8	1.1
1.0	21.6	-24.4	-18.5	-24.1	1.0	0.5	31.7	19.9	1.2
1.2	21.6	-24.4	-17.9	-22.6	1.0	0.5	30.8	19.8	1.2
1.4	21.5	-24.5	-17.1	-21.7	1.1	0.5	30.0	19.8	1.1
1.6	21.5	-24.6	-16.2	-20.9	1.1	0.5	30.2	19.7	1.1
1.8	21.5	-24.7	-15.4	-20.1	1.1	0.5	29.9	19.6	1.1
2.0	21.5	-24.7	-14.6	-19.3	1.1	0.5	29.4	19.5	1.2
2.2	21.4	-24.9	-13.7	-18.2	1.1	0.6	30.2	19.7	1.2
2.4	21.4	-24.9	-12.9	-17.1	1.1	0.6	28.7	19.3	1.3
2.6	21.4	-25.0	-12.2	-16.2	1.1	0.6	28.2	19.1	1.2
2.8	21.4	-25.1	-11.6	-15.4	1.1	0.6	29.0	19.2	1.3
3.0	21.3	-25.3	-11.2	-14.8	1.1	0.6	27.8	18.8	1.3
3.2	21.3	-25.3	-10.9	-14.4	1.1	0.6	28.6	18.7	1.3
3.4	21.3	-25.4	-10.8	-14.2	1.1	0.6	28.0	18.4	1.4
3.6	21.3	-25.5	-10.8	-14.2	1.1	0.6	28.2	18.4	1.4
3.8	21.3	-25.6	-11.1	-14.4	1.1	0.6	28.7	18.9	1.4
4.0	21.3	-25.6	-11.5	-14.7	1.1	0.6	28.1	18.7	1.4
4.2	21.4	-25.7	-12.1	-15.3	1.1	0.7	28.4	18.8	1.4
4.4	21.4	-25.7	-12.8	-15.8	1.1	0.7	27.7	18.7	1.4
4.6	21.5	-25.8	-13.4	-16.4	1.1	0.7	26.9	18.5	1.4
4.8	21.5	-25.9	-14.1	-16.8	1.1	0.7	28.2	19.0	1.4
5.0	21.6	-26.0	-14.6	-17.5	1.1	0.7	27.1	18.5	1.4
5.2	21.6	-26.0	-14.9	-18.1	1.1	0.7	27.4	18.8	1.4
5.4	21.7	-26.1	-15.0	-18.9	1.1	0.7	27.3	18.4	1.5
5.6	21.7	-26.2	-14.7	-20.1	1.2	0.7	27.3	18.3	1.5
5.8	21.7	-26.3	-14.1	-21.8	1.2	0.7	27.6	18.2	1.5
6.0	21.7	-26.5	-13.3	-24.0	1.2	0.8	27.5	18.2	1.6
6.2	21.6	-26.6	-12.5	-25.3	1.2	0.8	26.7	18.1	1.8
6.4	21.6	-26.9	-11.5	-23.2	1.2	0.8	27.6	17.9	1.8
6.6	21.5	-27.1	-10.6	-19.9	1.2	0.8	27.0	18.0	1.8
6.8	21.4	-27.4	-9.8	-17.0	1.3	0.9	27.0	17.8	1.9
7.0	21.3	-27.7	-9.0	-14.9	1.3	0.9	26.8	17.9	2.0
7.2	21.1	-28.1	-8.5	-13.2	1.3	0.9	27.2	18.0	2.0
7.4	21.1	-28.5	-8.0	-12.0	1.4	0.9	27.0	18.1	2.0
7.6	21.0	-28.9	-7.7	-11.0	1.4	0.9	26.3	17.9	2.1
7.8	21.0	-29.1	-7.4	-10.4	1.4	0.9	26.4	18.2	2.1
8.0	21.2	-29.3	-7.2	-9.8	1.4	0.9	25.9	18.1	1.9
8.2	21.4	-29.3	-7.3	-9.4	1.4	0.9	26.0	17.8	1.8
8.4	21.6	-29.4	-7.5	-9.1	1.4	0.8	26.3	18.0	1.8
8.6	21.8	-29.3	-7.8	-9.0	1.4	0.8	26.2	18.1	1.7
8.8	22.1	-29.5	-8.5	-9.1	1.4	0.8	25.3	18.1	1.6
9.0	22.2	-29.4	-9.5	-9.2	1.4	0.8	25.8	18.4	1.6
9.2	22.2	-29.7	-10.8	-9.4	1.5	0.8	25.6	18.1	1.7
9.4	22.2	-29.9	-12.1	-9.5	1.5	0.8	25.2	18.4	1.8
9.6	22.1	-30.2	-13.3	-9.5	1.6	0.8	25.7	18.5	1.9
9.8	21.9	-30.6	-13.7	-9.3	1.6	0.8	26.1	18.0	2.0
10.0	21.6	-31.1	-13.0	-9.1	1.7	0.8	25.3	18.3	2.1

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: V_{DD} = +5 V, I_{DD} = 60 mA @ Temperature = +105°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output P _{OUT} = +5 dBm/Tone	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.02	20.8	-25.1	-13.7	-20.0	1.1	0.7	27.6	15.9	4.8
0.03	21.0	-24.6	-15.4	-21.5	1.1	0.6	29.2	16.8	3.4
0.04	21.2	-24.4	-16.6	-22.7	1.0	0.5	29.5	17.2	2.6
0.05	21.2	-24.5	-17.4	-23.6	1.1	0.5	28.7	17.4	2.2
0.1	21.4	-24.2	-18.6	-27.9	1.0	0.5	30.4	18.6	1.7
0.3	21.5	-24.1	-19.3	-30.1	1.0	0.5	30.8	19.2	1.4
0.5	21.4	-24.2	-19.0	-28.5	1.0	0.5	29.8	19.3	1.3
0.7	21.4	-24.2	-18.7	-26.5	1.0	0.5	29.8	19.3	1.2
1.0	21.4	-24.3	-17.9	-24.2	1.1	0.5	31.0	19.4	1.3
1.2	21.4	-24.4	-17.3	-22.6	1.1	0.5	30.3	19.2	1.3
1.4	21.4	-24.4	-16.6	-21.6	1.1	0.5	29.5	19.2	1.2
1.6	21.3	-24.5	-15.8	-20.8	1.1	0.5	29.8	19.1	1.3
1.8	21.3	-24.6	-15.0	-19.9	1.1	0.6	29.4	19.0	1.3
2.0	21.3	-24.7	-14.2	-19.1	1.1	0.6	28.9	18.9	1.3
2.2	21.2	-24.8	-13.3	-18.0	1.1	0.6	30.1	19.1	1.4
2.4	21.2	-24.9	-12.5	-16.9	1.1	0.6	28.4	18.7	1.4
2.6	21.2	-25.0	-11.9	-15.9	1.1	0.6	27.9	18.4	1.4
2.8	21.1	-25.1	-11.3	-15.1	1.1	0.6	28.6	18.5	1.4
3.0	21.1	-25.2	-10.9	-14.5	1.1	0.6	27.4	18.1	1.5
3.2	21.1	-25.3	-10.6	-14.2	1.1	0.6	28.2	18.1	1.4
3.4	21.0	-25.4	-10.5	-14.0	1.1	0.6	27.6	17.8	1.6
3.6	21.0	-25.5	-10.6	-13.9	1.1	0.6	28.0	17.9	1.6
3.8	21.1	-25.5	-10.8	-14.2	1.1	0.7	28.5	18.3	1.6
4.0	21.1	-25.6	-11.2	-14.5	1.1	0.7	27.9	18.1	1.5
4.2	21.1	-25.7	-11.8	-15.1	1.1	0.7	28.3	18.2	1.5
4.4	21.1	-25.7	-12.5	-15.7	1.1	0.7	27.4	18.1	1.6
4.6	21.2	-25.8	-13.1	-16.4	1.1	0.7	26.8	17.9	1.6
4.8	21.2	-25.9	-13.7	-17.0	1.1	0.7	28.1	18.4	1.6
5.0	21.3	-26.0	-14.2	-17.8	1.2	0.7	27.0	17.9	1.6
5.2	21.3	-26.1	-14.5	-18.6	1.2	0.7	27.3	18.2	1.6
5.4	21.3	-26.2	-14.4	-19.7	1.2	0.7	27.2	17.9	1.7
5.6	21.3	-26.3	-14.1	-21.2	1.2	0.8	27.2	17.8	1.8
5.8	21.2	-26.6	-13.6	-23.3	1.2	0.8	27.4	17.7	1.8
6.0	21.2	-26.6	-12.9	-25.6	1.2	0.8	27.4	17.6	1.9
6.2	21.1	-27.0	-12.1	-25.6	1.3	0.8	26.5	17.5	2.1
6.4	20.9	-27.3	-11.3	-22.6	1.3	0.9	27.5	17.3	2.2
6.6	20.8	-27.5	-10.5	-19.4	1.3	0.9	26.9	17.4	2.2
6.8	20.8	-27.8	-9.7	-16.8	1.3	0.9	26.8	17.3	2.3
7.0	20.8	-27.9	-8.9	-14.7	1.3	0.9	26.8	17.4	2.2
7.2	20.8	-28.2	-8.4	-13.0	1.3	0.9	27.1	17.5	2.2
7.4	20.6	-28.6	-8.0	-11.6	1.4	0.9	26.9	17.5	2.2
7.6	20.7	-28.9	-7.4	-10.8	1.4	0.9	26.4	17.4	2.2
7.8	20.9	-29.0	-7.2	-10.2	1.4	0.9	26.5	17.6	2.2
8.0	21.1	-29.0	-7.2	-9.8	1.4	0.9	25.9	17.6	2.1
8.2	21.3	-29.0	-7.3	-9.5	1.4	0.9	26.2	17.4	2.1
8.4	21.5	-29.1	-7.6	-9.3	1.4	0.8	26.5	17.5	2.0
8.6	21.7	-29.1	-8.2	-9.2	1.4	0.8	26.3	17.6	1.9
8.8	21.8	-29.3	-8.9	-9.3	1.4	0.8	25.3	17.5	1.8
9.0	21.9	-29.3	-9.9	-9.4	1.4	0.8	26.0	17.7	1.9
9.2	21.9	-29.5	-11.2	-9.5	1.5	0.8	25.7	17.5	1.9
9.4	21.8	-29.8	-12.6	-9.5	1.5	0.8	25.5	17.7	2.1
9.6	21.7	-30.0	-13.5	-9.5	1.6	0.8	25.8	17.9	2.2
9.8	21.5	-30.5	-13.5	-9.4	1.7	0.8	26.2	17.5	2.3
10.0	21.1	-31.0	-12.5	-9.2	1.8	0.8	25.5	17.7	2.4