

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain(Power Gain) = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +6\text{ V}$, $I_{DD} = 550\text{ mA}$, $V_{GG} = -0.77\text{ V}$, $I_{GG} = 0.81\text{ mA}$, Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output $P_{OUT} = +16\text{ dBm/Tone}$	1dB Comp. Output	P_{SAT} Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dB)
4.00	4.6	-68.4	-8.1	-20.4	743.4	1.1	29.5	22.4	25.3	17.3
4.50	11.8	-68.9	-11.3	-30.9	378.0	1.1	30.9	23.8	26.7	13.0
5.00	16.5	-64.0	-15.6	-24.2	132.2	1.0	32.5	25.3	28.2	10.5
5.50	18.8	-66.5	-18.3	-18.9	135.9	1.0	33.3	26.5	29.3	8.8
6.00	20.0	-67.0	-18.4	-16.8	126.9	1.0	33.5	27.3	29.9	7.7
6.50	20.5	-65.0	-17.7	-17.2	94.9	1.0	33.7	27.7	30.3	6.9
7.00	20.6	-61.9	-17.9	-18.0	66.1	1.0	33.4	27.9	30.4	6.4
7.50	20.6	-57.6	-18.7	-18.0	40.8	1.0	34.4	28.0	30.2	5.9
8.00	20.4	-57.2	-19.5	-17.1	40.1	1.0	33.8	28.5	30.4	5.6
8.50	20.2	-63.6	-18.7	-15.8	86.0	1.0	34.2	29.1	31.0	5.3
9.00	20.0	-63.1	-17.3	-14.6	81.5	1.0	34.3	29.1	31.1	5.1
9.50	19.9	-66.6	-16.8	-14.0	122.8	1.0	36.1	28.7	30.6	5.0
10.00	19.9	-68.4	-17.4	-14.0	153.8	1.0	36.3	28.9	30.4	4.8
10.25	19.9	-75.8	-17.5	-14.2	360.9	1.0	36.7	29.5	30.9	4.7
10.50	19.9	-70.1	-17.5	-14.3	188.2	1.0	37.5	29.8	31.2	4.7
10.75	19.9	-64.8	-16.9	-14.7	102.8	1.0	36.7	29.9	31.4	4.7
11.00	19.8	-66.5	-16.4	-15.0	125.9	1.0	37.1	29.8	31.4	4.7
11.25	19.7	-63.4	-15.6	-15.3	88.9	1.0	37.3	29.0	31.5	4.7
11.50	19.6	-64.0	-15.0	-15.5	96.5	1.0	36.8	28.5	31.5	4.6
11.75	19.5	-58.9	-13.8	-15.5	54.4	1.0	36.9	27.9	31.2	4.7
12.00	19.3	-63.4	-13.0	-15.5	91.4	1.0	36.8	27.9	31.0	4.8
12.25	19.2	-59.4	-12.0	-15.3	58.5	1.0	36.5	28.0	31.1	4.9
12.50	19.1	-60.2	-11.5	-15.1	64.0	1.0	37.0	28.2	31.3	5.0
12.75	19.0	-58.9	-11.1	-15.0	55.7	1.0	36.2	28.1	31.1	5.0
13.00	19.0	-58.0	-11.2	-15.1	50.3	1.0	36.6	28.1	31.2	4.9
13.25	19.1	-58.4	-11.9	-15.5	53.4	1.0	36.5	27.8	30.5	5.0
13.50	19.1	-59.4	-12.7	-15.9	59.9	1.0	36.2	28.1	31.0	4.9
13.75	19.3	-62.2	-14.6	-16.7	84.4	1.0	36.3	27.9	30.8	4.9
14.00	19.4	-59.4	-16.2	-17.3	61.1	1.0	36.0	28.0	30.9	4.9
14.25	19.5	-59.5	-19.3	-18.3	62.2	1.0	36.3	28.0	31.1	4.8
14.50	19.6	-61.3	-21.4	-19.1	76.1	1.0	36.1	28.1	31.1	4.7
14.75	19.8	-61.7	-23.8	-20.0	78.8	1.0	36.0	28.2	31.1	4.7
15.00	19.9	-59.3	-24.1	-20.4	59.6	1.0	36.6	28.4	31.1	4.7
15.25	20.0	-60.5	-22.1	-20.0	67.8	1.0	36.3	28.4	30.9	4.8
15.50	20.1	-58.6	-20.1	-19.1	53.7	1.0	35.8	28.5	31.0	4.7
15.75	20.2	-57.6	-17.3	-17.8	46.5	1.0	35.7	28.4	30.8	4.8
16.00	20.2	-56.9	-15.9	-16.9	42.2	1.0	35.2	28.4	30.8	4.7
16.25	20.3	-55.8	-14.4	-16.1	36.7	1.0	35.3	28.0	30.4	4.8
16.50	20.3	-55.3	-13.8	-15.7	34.3	1.0	35.8	28.1	30.4	4.8
16.75	20.4	-53.6	-13.2	-15.0	27.8	1.0	35.3	28.4	30.2	4.9
17.00	20.4	-52.7	-12.9	-14.6	25.0	1.0	35.6	28.6	30.0	4.8
17.25	20.3	-53.0	-12.9	-14.3	26.0	1.0	35.2	28.9	29.8	4.8
17.50	20.2	-53.6	-13.0	-14.3	28.3	1.0	34.4	29.1	29.9	4.9
17.75	20.1	-54.5	-13.2	-14.5	32.1	1.0	34.4	29.4	29.8	4.9
18.00	20.0	-52.6	-13.6	-15.0	26.6	1.0	34.3	29.3	29.8	5.0
18.25	19.7	-51.3	-14.0	-16.1	23.8	1.0	33.8	29.3	30.2	5.2
18.50	19.3	-52.9	-13.8	-16.6	30.0	1.0	33.8	28.8	30.0	5.3
18.75	18.3	-54.2	-12.9	-16.6	39.2	1.0	31.6	28.5	29.6	5.6
19.00	17.2	-57.0	-12.3	-16.2	61.3	1.0	31.7	28.0	29.0	5.7
19.25	15.1	-64.3	-12.0	-15.3	178.4	1.0	30.4	27.6	28.6	6.1
19.50	13.4	-63.5	-12.4	-14.4	197.6	1.0	30.3	27.0	28.2	6.5
19.75	10.5	-64.2	-13.1	-13.3	300.7	1.0	30.2	26.1	26.8	7.2
20.00	8.5	-70.3	-13.1	-12.4	763.2	1.0	31.0	25.6	26.0	7.8

Typical Performance Data

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Definitions:

Input Return Loss = S11 (dB)

Gain(Power Gain) = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +6\text{ V}$, $I_{DD} = 220\text{ mA}$, $V_{GG} = -1.01\text{ V}$, $I_{GG} = 0.81\text{ mA}$, Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output $P_{OUT} = +16$ dBm/Tone	1dB Comp. Output	P_{SAT} Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dB)
4.00	2.0	-66.0	-8.1	-20.8	763.2	1.1	25.3	24.8	25.8	17.7
4.50	9.3	-62.1	-11.2	-31.7	230.8	1.1	27.2	26.7	27.9	13.0
5.00	13.9	-70.6	-15.4	-23.5	380.8	1.0	30.6	27.6	29.3	10.4
5.50	16.2	-74.0	-18.2	-18.3	438.5	1.0	31.9	28.2	29.6	8.7
6.00	17.3	-64.4	-18.4	-16.6	127.4	1.0	32.4	28.4	29.4	7.6
6.50	17.8	-56.8	-17.8	-17.2	50.6	1.0	33.0	28.6	29.2	6.8
7.00	18.0	-57.1	-18.1	-18.2	51.7	1.0	32.7	28.9	29.1	6.2
7.50	18.0	-57.5	-19.0	-18.0	54.6	1.0	33.5	29.3	29.5	5.7
8.00	17.8	-56.0	-19.8	-17.1	47.0	1.0	32.3	29.6	29.9	5.4
8.50	17.6	-57.7	-18.9	-15.7	58.1	1.0	32.5	30.0	30.3	5.1
9.00	17.5	-58.5	-17.3	-14.5	64.7	1.0	31.8	30.4	30.1	4.9
9.50	17.4	-57.5	-16.7	-13.8	57.5	1.0	33.3	30.4	29.1	4.7
10.00	17.5	-63.1	-17.3	-13.9	110.4	1.0	29.5	30.7	30.1	4.6
10.25	17.5	-64.3	-17.7	-14.1	126.4	1.0	29.0	30.6	30.6	4.5
10.50	17.5	-66.4	-17.9	-14.3	161.3	1.0	29.7	30.6	30.9	4.4
10.75	17.5	-60.3	-17.5	-14.7	80.1	1.0	28.7	18.6	31.1	4.4
11.00	17.5	-60.0	-17.1	-15.0	78.1	1.0	28.8	18.7	31.0	4.4
11.25	17.5	-58.6	-16.3	-15.3	66.2	1.0	29.0	18.5	30.9	4.4
11.50	17.4	-58.0	-15.5	-15.4	62.6	1.0	28.6	18.3	30.9	4.4
11.75	17.3	-57.2	-14.3	-15.5	57.4	1.0	28.7	18.5	30.3	4.4
12.00	17.2	-55.2	-13.3	-15.5	46.0	1.0	28.5	18.8	30.1	4.4
12.25	17.1	-56.9	-12.1	-15.3	55.8	1.0	28.4	18.8	30.3	4.5
12.50	17.0	-55.3	-11.5	-15.1	46.5	1.0	28.9	18.7	30.1	4.6
12.75	16.9	-56.0	-11.0	-15.1	50.6	1.0	28.3	19.1	30.1	4.6
13.00	16.9	-54.6	-11.0	-15.2	43.1	1.0	28.7	19.6	30.3	4.6
13.25	17.0	-53.2	-11.5	-15.7	36.9	1.0	28.7	19.9	30.1	4.6
13.50	17.1	-53.9	-12.2	-16.1	40.2	1.0	28.7	20.3	30.5	4.5
13.75	17.2	-54.7	-13.9	-17.0	44.4	1.0	28.9	20.1	31.0	4.5
14.00	17.3	-56.2	-15.5	-17.6	53.2	1.0	28.9	20.7	31.2	4.4
14.25	17.5	-56.1	-18.4	-18.7	52.9	1.0	29.3	21.8	31.3	4.3
14.50	17.6	-54.4	-20.6	-19.4	43.7	1.0	29.4	22.4	31.5	4.3
14.75	17.7	-53.6	-23.1	-20.2	39.5	1.0	29.3	22.3	31.4	4.2
15.00	17.8	-52.0	-23.7	-20.5	32.4	1.0	29.7	22.4	31.3	4.2
15.25	18.0	-51.3	-22.2	-20.0	29.6	1.0	29.7	23.4	31.4	4.2
15.50	18.0	-52.4	-20.2	-19.2	33.1	1.0	29.7	24.2	31.6	4.2
15.75	18.2	-51.0	-17.5	-17.8	27.6	1.0	29.4	25.2	31.5	4.2
16.00	18.2	-50.7	-16.0	-17.0	26.1	1.0	28.6	25.6	31.2	4.1
16.25	18.4	-50.0	-14.5	-16.2	23.4	1.0	28.3	25.6	30.7	4.2
16.50	18.4	-49.4	-14.0	-15.9	21.6	1.0	27.8	26.3	30.8	4.2
16.75	18.5	-49.6	-13.3	-15.3	21.8	1.0	28.1	28.1	31.0	4.2
17.00	18.6	-49.0	-13.0	-14.8	20.3	1.0	29.9	29.0	30.9	4.3
17.25	18.5	-47.0	-12.8	-14.2	16.0	1.0	30.3	29.7	30.7	4.4
17.50	18.5	-48.1	-12.8	-14.0	18.3	1.0	30.3	29.8	30.6	4.3
17.75	18.4	-47.2	-13.0	-14.1	16.8	1.0	30.9	29.6	30.3	4.3
18.00	18.3	-47.7	-13.4	-14.6	18.2	1.0	31.4	29.7	30.0	4.5
18.25	18.2	-47.6	-14.1	-15.9	18.6	1.0	31.3	29.5	30.2	4.6
18.50	17.9	-48.1	-14.1	-16.7	20.3	1.0	32.2	29.2	30.1	4.6
18.75	17.1	-48.8	-13.2	-16.9	24.2	1.0	31.1	28.0	29.7	4.9
19.00	16.1	-50.2	-12.4	-16.4	31.5	1.0	31.3	27.8	29.3	5.0
19.25	14.0	-51.3	-11.9	-15.2	45.4	1.0	31.0	27.6	28.8	5.4
19.50	12.2	-55.7	-12.1	-14.4	91.9	1.0	31.6	27.0	28.0	5.7
19.75	9.3	-55.4	-13.0	-13.2	125.9	1.0	32.9	26.7	27.2	6.2
20.00	7.1	-61.9	-13.1	-12.3	340.3	1.0	32.7	26.1	26.5	6.8

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Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +6\text{ V}$, $I_{DD} = 300\text{ mA}$, $V_{GG} = -0.95\text{ V}$, $I_{GG} = 0.81\text{ mA}$, Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output $P_{OUT} = +16\text{ dBm/Tone}$	1dB Comp. Output	P_{SAT} Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dB)
4.00	3.0	-65.3	-8.1	-20.4	624.0	1.1	26.0	22.7	25.4	17.4
4.50	10.3	-72.3	-11.3	-30.0	672.9	1.1	28.5	25.6	27.7	12.9
5.00	14.9	-67.3	-15.5	-23.7	232.6	1.0	31.1	27.0	28.7	10.3
5.50	17.2	-67.8	-18.2	-18.7	191.5	1.0	32.2	27.5	29.3	8.6
6.00	18.3	-66.1	-18.4	-16.8	137.3	1.0	32.6	27.8	29.4	7.5
6.50	18.9	-58.9	-17.8	-17.3	56.6	1.0	33.0	28.1	29.4	6.8
7.00	19.0	-58.4	-18.0	-18.1	53.3	1.0	32.8	28.4	29.3	6.1
7.50	19.0	-57.5	-18.8	-18.0	48.6	1.0	33.8	28.8	29.6	5.7
8.00	18.9	-55.3	-19.7	-17.0	38.5	1.0	32.9	29.0	29.9	5.3
8.50	18.7	-59.5	-18.8	-15.8	63.3	1.0	33.2	29.3	30.3	5.1
9.00	18.5	-60.5	-17.3	-14.5	71.7	1.0	33.0	29.5	30.2	4.9
9.50	18.5	-60.8	-16.7	-13.9	74.6	1.0	37.2	29.6	29.6	4.6
10.00	18.5	-64.1	-17.3	-14.0	110.0	1.0	35.0	30.0	30.5	4.5
10.25	18.5	-67.7	-17.6	-14.2	165.5	1.0	33.6	29.9	30.8	4.4
10.50	18.5	-64.2	-17.7	-14.4	112.0	1.0	34.2	30.0	30.9	4.4
10.75	18.5	-64.8	-17.2	-14.8	119.4	1.0	32.3	22.9	31.1	4.3
11.00	18.5	-61.9	-16.8	-15.1	85.9	1.0	32.3	23.3	31.0	4.3
11.25	18.5	-59.6	-15.9	-15.4	67.1	1.0	32.5	22.9	30.9	4.3
11.50	18.4	-61.2	-15.2	-15.5	80.5	1.0	31.6	22.6	30.9	4.4
11.75	18.2	-57.9	-14.0	-15.7	56.0	1.0	31.6	22.5	30.5	4.4
12.00	18.1	-57.2	-13.1	-15.6	51.9	1.0	31.4	22.3	30.3	4.5
12.25	18.0	-57.6	-12.0	-15.4	54.5	1.0	30.8	22.5	30.3	4.5
12.50	17.9	-56.8	-11.4	-15.2	50.1	1.0	31.7	22.2	30.1	4.6
12.75	17.8	-56.6	-11.0	-15.2	48.6	1.0	30.8	22.5	30.2	4.6
13.00	17.8	-57.9	-11.1	-15.3	57.2	1.0	31.3	23.0	30.3	4.6
13.25	17.9	-56.7	-11.6	-15.7	50.4	1.0	31.1	22.9	30.2	4.6
13.50	17.9	-57.4	-12.4	-16.1	54.7	1.0	30.9	23.2	30.6	4.5
13.75	18.1	-55.9	-14.2	-16.9	46.8	1.0	31.0	24.1	31.0	4.5
14.00	18.2	-56.9	-15.9	-17.5	52.9	1.0	30.9	24.3	31.2	4.4
14.25	18.3	-58.4	-18.9	-18.5	63.1	1.0	31.2	24.3	31.2	4.4
14.50	18.4	-56.0	-21.0	-19.2	47.3	1.0	31.2	24.5	31.5	4.3
14.75	18.5	-56.7	-23.5	-20.0	51.2	1.0	31.0	24.7	31.4	4.3
15.00	18.6	-55.3	-24.0	-20.3	43.5	1.0	31.9	25.0	31.2	4.3
15.25	18.7	-55.7	-22.2	-20.0	44.9	1.0	31.5	25.8	31.4	4.3
15.50	18.8	-55.3	-20.2	-19.1	42.1	1.0	31.5	26.3	31.5	4.2
15.75	18.9	-53.9	-17.4	-17.8	35.0	1.0	30.9	26.9	31.5	4.3
16.00	19.0	-53.5	-15.9	-17.0	33.1	1.0	31.2	27.0	31.2	4.2
16.25	19.1	-54.0	-14.5	-16.2	34.0	1.0	31.1	26.6	30.7	4.3
16.50	19.2	-51.2	-13.9	-15.8	24.5	1.0	31.3	27.2	30.8	4.3
16.75	19.2	-50.9	-13.3	-15.1	23.2	1.0	31.2	28.6	31.0	4.3
17.00	19.2	-51.5	-13.0	-14.7	24.7	1.0	32.1	29.1	30.9	4.3
17.25	19.2	-49.4	-12.9	-14.2	19.6	1.0	32.5	29.4	30.6	4.3
17.50	19.1	-50.3	-12.9	-14.1	22.0	1.0	31.8	29.3	30.6	4.3
17.75	19.1	-50.9	-13.1	-14.3	23.9	1.0	32.4	29.2	30.2	4.5
18.00	19.0	-49.4	-13.5	-14.8	20.5	1.0	33.0	29.3	30.0	4.5
18.25	18.8	-49.5	-14.1	-15.9	21.6	1.0	33.2	29.1	30.2	4.7
18.50	18.5	-50.3	-14.0	-16.6	24.7	1.0	34.1	29.0	30.1	4.8
18.75	17.5	-50.9	-13.0	-16.7	29.6	1.0	32.2	28.0	29.7	5.0
19.00	16.4	-52.6	-12.3	-16.3	40.4	1.0	32.3	27.8	29.3	5.1
19.25	14.3	-54.0	-11.9	-15.2	59.8	1.0	31.4	27.7	28.8	5.5
19.50	12.5	-57.9	-12.2	-14.4	114.5	1.0	31.6	27.1	28.1	5.8
19.75	9.6	-63.5	-13.1	-13.2	307.3	1.0	32.9	26.6	27.1	6.4
20.00	7.4	-63.6	-13.1	-12.3	397.4	1.0	33.8	26.0	26.4	6.9

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain(Power Gain) = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +6\text{ V}$, $I_{DD} = 600\text{ mA}$, $V_{GG} = -0.74\text{ V}$, $I_{GG} = 0.81\text{ mA}$, Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output $P_{OUT} = +16\text{ dBm/Tone}$	1dB Comp. Output	P_{SAT} Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dB)
4.00	4.7	-63.0	-8.1	-20.5	393.3	1.1	29.4	20.0	23.9	17.3
4.50	12.0	-69.6	-11.3	-31.4	404.7	1.1	31.1	20.6	25.7	13.1
5.00	16.7	-64.6	-15.6	-24.3	138.1	1.0	32.9	22.9	27.4	10.6
5.50	19.0	-63.5	-18.3	-18.8	94.9	1.0	33.5	25.2	28.5	8.9
6.00	20.1	-65.2	-18.4	-16.8	101.4	1.0	33.6	25.1	29.0	7.8
6.50	20.6	-61.5	-17.7	-17.1	62.8	1.0	33.9	24.6	29.4	7.0
7.00	20.8	-59.5	-17.9	-18.0	49.4	1.0	33.6	26.6	29.6	6.5
7.50	20.7	-58.5	-18.8	-18.0	44.5	1.0	34.4	27.3	29.7	6.1
8.00	20.5	-59.3	-19.6	-17.2	50.5	1.0	34.0	26.9	29.8	5.7
8.50	20.3	-61.1	-18.7	-15.9	63.5	1.0	34.4	27.0	31.0	5.4
9.00	20.1	-62.4	-17.3	-14.6	74.1	1.0	34.4	27.9	30.6	5.2
9.50	20.1	-68.9	-16.8	-14.0	157.8	1.0	36.1	28.3	30.4	5.1
10.00	20.0	-68.6	-17.4	-13.9	154.0	1.0	36.3	28.2	30.2	4.9
10.25	20.0	-74.5	-17.5	-14.2	308.4	1.0	36.7	28.3	30.6	4.8
10.50	20.0	-66.0	-17.5	-14.3	115.5	1.0	37.4	28.5	30.8	4.8
10.75	20.0	-64.8	-16.9	-14.7	101.0	1.0	36.9	28.6	31.0	4.8
11.00	19.9	-66.4	-16.4	-14.9	122.6	1.0	37.2	28.5	31.0	4.8
11.25	19.8	-61.5	-15.6	-15.3	71.3	1.0	37.5	28.2	31.0	4.8
11.50	19.7	-61.9	-15.0	-15.4	74.7	1.0	37.0	28.4	31.0	4.8
11.75	19.5	-60.3	-13.8	-15.5	63.0	1.0	37.1	28.3	30.9	4.8
12.00	19.4	-61.2	-13.1	-15.4	70.9	1.0	37.2	28.2	30.9	4.9
12.25	19.2	-61.1	-12.0	-15.2	70.6	1.0	36.7	27.8	31.0	5.0
12.50	19.2	-58.8	-11.5	-15.1	54.3	1.0	37.3	27.8	31.0	5.0
12.75	19.1	-58.7	-11.2	-15.0	54.0	1.0	36.5	27.5	30.8	5.0
13.00	19.1	-59.9	-11.2	-15.1	62.0	1.0	36.9	27.6	30.7	5.1
13.25	19.2	-61.7	-11.9	-15.5	76.9	1.0	36.8	27.8	30.6	5.1
13.50	19.2	-61.5	-12.7	-15.8	76.1	1.0	36.5	28.2	30.6	5.1
13.75	19.4	-62.7	-14.6	-16.6	87.6	1.0	36.5	28.3	30.6	5.1
14.00	19.5	-60.8	-16.2	-17.3	70.9	1.0	36.3	28.3	30.8	5.0
14.25	19.6	-63.5	-19.3	-18.3	96.6	1.0	36.7	28.1	31.0	4.9
14.50	19.7	-63.9	-21.4	-19.1	100.9	1.0	36.3	28.2	31.1	4.9
14.75	19.9	-62.6	-23.7	-20.0	86.7	1.0	36.2	28.2	31.1	4.8
15.00	20.0	-59.4	-24.1	-20.4	59.5	1.0	36.8	28.4	31.1	4.9
15.25	20.1	-59.9	-22.1	-20.0	62.5	1.0	36.5	28.4	30.9	4.9
15.50	20.2	-58.4	-20.1	-19.2	51.9	1.0	36.0	28.6	30.9	4.9
15.75	20.3	-56.9	-17.3	-17.8	42.4	1.0	35.8	28.5	30.7	4.9
16.00	20.4	-56.0	-15.9	-17.0	37.8	1.0	35.4	28.5	30.7	4.9
16.25	20.4	-57.3	-14.4	-16.1	42.9	1.0	35.4	28.3	30.2	5.0
16.50	20.5	-54.5	-13.8	-15.7	30.9	1.0	35.9	28.4	30.2	5.0
16.75	20.5	-53.9	-13.2	-15.0	28.3	1.0	35.4	28.7	30.1	5.0
17.00	20.5	-53.2	-12.9	-14.7	26.0	1.0	35.6	28.7	30.0	5.0
17.25	20.4	-53.4	-12.9	-14.4	27.0	1.0	35.2	28.8	29.8	5.0
17.50	20.3	-52.7	-13.0	-14.3	25.2	1.0	34.5	28.9	29.8	5.0
17.75	20.2	-53.3	-13.2	-14.6	27.7	1.0	34.3	29.1	29.7	5.0
18.00	20.1	-53.2	-13.6	-15.1	27.9	1.0	34.3	29.2	29.7	5.2
18.25	19.8	-53.9	-14.0	-16.0	31.9	1.0	33.6	29.1	30.1	5.3
18.50	19.4	-51.9	-13.8	-16.5	26.5	1.0	33.6	28.6	29.8	5.5
18.75	18.4	-56.1	-12.9	-16.7	48.4	1.0	31.6	28.5	29.5	5.7
19.00	17.3	-56.7	-12.3	-16.3	58.5	1.0	31.8	27.9	28.9	5.8
19.25	15.2	-57.1	-12.0	-15.3	76.8	1.0	30.5	27.4	28.4	6.3
19.50	13.5	-61.5	-12.3	-14.4	155.7	1.0	30.3	26.8	27.8	6.6
19.75	10.7	-83.9	-13.1	-13.2	2853.2	1.0	29.8	25.9	26.6	7.3
20.00	8.6	-63.7	-13.1	-12.4	348.8	1.0	30.3	25.4	25.8	7.9

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain(Power Gain) = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +6\text{ V}$, $I_{DD} = 500\text{ mA}$, $V_{GG} = -0.81\text{ V}$, $I_{GG} = 0.81\text{ mA}$, Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output $P_{OUT} = +16$ dBm/Tone	1dB Comp. Output	P_{SAT} Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dB)
4.00	4.4	-68.7	-8.1	-20.3	785.5	1.1	29.7	21.3	23.2	17.2
4.50	11.6	-67.4	-11.3	-30.4	324.6	1.1	30.7	22.9	25.6	12.9
5.00	16.3	-78.3	-15.6	-24.1	700.2	1.0	32.2	24.7	27.8	10.3
5.50	18.6	-73.8	-18.3	-18.9	325.7	1.0	33.1	26.0	28.5	8.7
6.00	19.8	-66.5	-18.4	-16.9	122.4	1.0	33.3	27.2	29.2	7.6
6.50	20.3	-62.1	-17.7	-17.2	69.7	1.0	33.6	27.1	29.7	6.8
7.00	20.4	-60.1	-17.9	-18.0	54.6	1.0	33.3	27.7	29.9	6.3
7.50	20.4	-57.2	-18.7	-18.0	39.9	1.0	34.3	28.1	30.0	5.8
8.00	20.2	-58.0	-19.6	-17.1	45.1	1.0	33.7	28.3	30.3	5.5
8.50	20.0	-60.4	-18.7	-15.8	60.3	1.0	34.1	28.8	31.0	5.2
9.00	19.8	-62.0	-17.2	-14.6	73.4	1.0	34.0	28.9	31.0	5.0
9.50	19.8	-66.4	-16.8	-14.0	123.0	1.0	36.2	28.9	30.3	4.8
10.00	19.8	-81.3	-17.4	-14.0	684.2	1.0	36.4	29.0	30.3	4.7
10.25	19.8	-70.4	-17.5	-14.2	197.7	1.0	36.6	29.4	30.8	4.6
10.50	19.8	-68.3	-17.5	-14.4	155.5	1.0	37.6	29.6	31.1	4.6
10.75	19.7	-66.5	-16.9	-14.7	127.4	1.0	36.7	29.5	31.4	4.6
11.00	19.7	-63.9	-16.4	-15.0	95.1	1.0	36.9	29.3	31.4	4.5
11.25	19.6	-63.1	-15.6	-15.4	87.4	1.0	37.1	28.6	31.3	4.6
11.50	19.5	-61.4	-15.0	-15.5	72.6	1.0	36.5	28.4	31.3	4.6
11.75	19.3	-60.7	-13.8	-15.6	67.6	1.0	36.5	27.8	31.0	4.6
12.00	19.2	-60.2	-13.0	-15.5	64.8	1.0	36.4	27.7	30.9	4.7
12.25	19.0	-60.4	-12.0	-15.3	66.2	1.0	35.9	27.5	31.0	4.8
12.50	18.9	-60.3	-11.5	-15.2	65.7	1.0	36.6	27.5	31.1	4.9
12.75	18.9	-58.1	-11.1	-15.1	51.2	1.0	35.8	27.3	30.9	4.9
13.00	18.9	-59.0	-11.2	-15.2	57.3	1.0	36.2	27.4	30.9	4.9
13.25	18.9	-59.6	-11.9	-15.5	61.9	1.0	36.0	27.4	30.7	4.9
13.50	19.0	-60.9	-12.7	-15.9	73.0	1.0	35.7	27.7	30.7	4.9
13.75	19.2	-57.0	-14.6	-16.7	46.8	1.0	35.9	27.7	30.6	4.8
14.00	19.2	-60.0	-16.2	-17.3	66.6	1.0	35.5	27.9	30.8	4.8
14.25	19.4	-60.5	-19.3	-18.3	70.6	1.0	35.8	27.9	31.0	4.7
14.50	19.5	-57.9	-21.4	-19.1	52.5	1.0	35.7	28.0	31.2	4.7
14.75	19.6	-59.4	-23.7	-20.0	62.1	1.0	35.6	28.0	31.3	4.6
15.00	19.7	-59.7	-24.1	-20.3	63.6	1.0	36.2	28.1	31.3	4.6
15.25	19.8	-58.7	-22.1	-20.0	56.1	1.0	36.0	28.1	31.2	4.6
15.50	19.9	-59.5	-20.1	-19.1	60.8	1.0	35.6	28.3	31.2	4.6
15.75	20.0	-57.6	-17.3	-17.8	47.8	1.0	35.3	28.3	31.0	4.6
16.00	20.1	-55.4	-15.9	-17.0	36.5	1.0	34.9	28.3	30.8	4.6
16.25	20.1	-55.4	-14.4	-16.1	35.7	1.0	35.0	28.0	30.4	4.7
16.50	20.2	-54.9	-13.8	-15.7	33.2	1.0	35.6	28.1	30.3	4.7
16.75	20.2	-53.6	-13.2	-15.0	28.2	1.0	35.0	28.3	30.2	4.7
17.00	20.2	-53.6	-12.9	-14.6	28.0	1.0	35.6	28.5	30.0	4.7
17.25	20.2	-52.2	-12.9	-14.3	24.1	1.0	35.0	28.7	29.8	4.8
17.50	20.1	-51.8	-13.0	-14.3	23.5	1.0	34.3	29.1	29.9	4.7
17.75	20.0	-54.4	-13.2	-14.5	32.4	1.0	34.3	29.2	29.8	4.8
18.00	19.9	-51.4	-13.6	-15.0	23.3	1.0	34.3	29.2	29.8	4.9
18.25	19.6	-52.8	-14.0	-16.0	28.9	1.0	33.9	29.4	30.2	5.1
18.50	19.2	-51.8	-13.8	-16.6	27.0	1.0	34.0	28.8	30.0	5.1
18.75	18.1	-53.3	-12.9	-16.7	35.9	1.0	31.7	28.4	29.6	5.4
19.00	17.0	-56.2	-12.3	-16.3	56.4	1.0	31.8	27.9	29.0	5.6
19.25	14.9	-57.7	-12.0	-15.3	84.9	1.0	30.5	27.5	28.6	6.0
19.50	13.2	-61.1	-12.3	-14.4	153.4	1.0	30.1	27.1	28.0	6.3
19.75	10.4	-69.9	-13.1	-13.2	591.8	1.0	30.8	26.3	26.9	7.0
20.00	8.3	-66.0	-13.1	-12.4	475.4	1.0	32.0	25.8	26.0	7.6

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: $V_{DD} = +5\text{ V}$, $I_{DD} = 550\text{ mA}$, $V_{GG} = -0.74\text{ V}$, $I_{GG} = 0.81\text{ mA}$, Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output $P_{OUT} = +16$ dBm/Tone	1dB Comp. Output	P_{SAT} Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dB)
4.00	4.8	-66.8	-8.1	-19.9	606.8	1.1	30.9	24.2	25.9	17.1
4.50	11.9	-70.2	-11.3	-27.9	433.7	1.1	33.1	25.2	28.1	12.9
5.00	16.6	-67.3	-15.5	-23.8	192.1	1.0	36.7	25.8	28.4	10.3
5.50	18.9	-67.0	-18.3	-19.1	142.4	1.0	37.5	26.1	28.1	8.6
6.00	20.1	-61.6	-18.4	-17.2	67.2	1.0	37.4	26.7	28.4	7.5
6.50	20.7	-61.8	-17.7	-17.4	63.9	1.0	37.3	26.7	28.4	6.8
7.00	20.9	-59.6	-17.9	-18.1	49.0	1.0	37.0	27.1	28.5	6.2
7.50	20.9	-56.9	-18.8	-17.9	36.0	1.0	37.4	27.2	28.4	5.8
8.00	20.8	-59.7	-19.6	-17.1	50.9	1.0	37.0	27.7	28.8	5.4
8.50	20.6	-58.6	-18.8	-15.8	45.8	1.0	37.3	28.3	29.5	5.2
9.00	20.5	-62.5	-17.3	-14.6	72.7	1.0	37.4	28.3	29.6	5.0
9.50	20.5	-64.7	-16.8	-14.0	93.2	1.0	38.3	27.8	28.9	4.8
10.00	20.5	-71.7	-17.4	-14.1	210.2	1.0	37.0	27.3	28.5	4.6
10.25	20.5	-69.0	-17.6	-14.4	154.4	1.0	36.4	27.5	29.1	4.5
10.50	20.5	-65.9	-17.6	-14.6	108.5	1.0	37.0	27.5	29.4	4.6
10.75	20.5	-64.8	-17.0	-15.0	95.0	1.0	35.7	27.5	29.7	4.5
11.00	20.5	-65.2	-16.6	-15.3	100.6	1.0	36.0	27.4	29.8	4.6
11.25	20.4	-64.2	-15.8	-15.7	90.0	1.0	36.2	27.1	29.8	4.5
11.50	20.3	-63.7	-15.0	-15.8	85.7	1.0	35.5	27.1	29.9	4.6
11.75	20.2	-62.5	-13.9	-15.9	75.8	1.0	35.5	26.8	29.7	4.6
12.00	20.1	-60.1	-13.0	-15.8	57.7	1.0	35.3	26.8	29.7	4.6
12.25	19.9	-58.2	-12.0	-15.6	46.9	1.0	34.9	26.7	29.8	4.7
12.50	19.8	-59.2	-11.4	-15.5	52.4	1.0	35.7	26.9	30.0	4.8
12.75	19.7	-60.3	-11.0	-15.3	59.8	1.0	34.7	26.8	29.9	4.8
13.00	19.7	-59.1	-11.1	-15.4	52.8	1.0	35.2	26.9	29.9	4.8
13.25	19.8	-59.0	-11.7	-15.8	52.7	1.0	35.0	26.8	29.7	4.8
13.50	19.8	-58.6	-12.6	-16.1	50.7	1.0	34.7	27.0	29.7	4.8
13.75	20.0	-57.2	-14.4	-16.8	43.7	1.0	34.8	26.9	29.4	4.8
14.00	20.0	-61.2	-16.1	-17.4	70.1	1.0	34.6	27.0	29.5	4.7
14.25	20.2	-60.8	-19.1	-18.3	67.1	1.0	35.0	27.0	29.6	4.6
14.50	20.2	-60.2	-21.3	-18.9	62.9	1.0	34.8	27.1	29.8	4.6
14.75	20.3	-61.2	-23.7	-19.8	69.9	1.0	34.6	27.2	29.8	4.5
15.00	20.4	-62.1	-24.2	-20.1	77.1	1.0	35.4	27.3	29.9	4.6
15.25	20.5	-56.8	-22.3	-19.7	41.7	1.0	35.2	27.2	29.6	4.5
15.50	20.6	-59.3	-20.2	-19.0	54.8	1.0	34.8	27.3	29.6	4.6
15.75	20.7	-57.8	-17.4	-17.7	45.1	1.0	34.6	27.2	29.3	4.6
16.00	20.7	-56.3	-15.9	-16.8	37.1	1.0	34.5	27.2	29.2	4.6
16.25	20.8	-54.6	-14.5	-16.0	29.9	1.0	34.7	26.9	28.7	4.6
16.50	20.9	-54.6	-13.8	-15.6	29.6	1.0	35.6	27.0	28.7	4.7
16.75	20.9	-54.4	-13.2	-14.9	28.6	1.0	35.2	27.2	28.6	4.6
17.00	21.0	-52.5	-12.9	-14.5	22.8	1.0	35.5	27.2	28.6	4.7
17.25	20.9	-52.3	-12.9	-14.2	22.3	1.0	35.9	27.4	28.7	4.7
17.50	20.9	-52.6	-12.9	-14.1	23.2	1.0	35.1	27.6	28.9	4.7
17.75	20.8	-52.4	-13.2	-14.4	23.2	1.0	36.0	27.6	28.8	4.8
18.00	20.8	-51.9	-13.6	-14.9	22.2	1.0	35.6	27.5	28.6	4.8
18.25	20.5	-51.7	-14.1	-16.1	22.7	1.0	35.7	27.5	28.7	4.9
18.50	20.2	-53.1	-14.0	-16.7	27.9	1.0	36.0	27.3	28.4	5.1
18.75	19.1	-55.1	-12.9	-16.8	39.5	1.0	36.1	27.1	28.0	5.4
19.00	18.0	-55.7	-12.2	-16.3	47.5	1.0	36.2	26.5	27.5	5.5
19.25	15.8	-60.7	-11.9	-15.3	109.3	1.0	36.3	26.2	27.3	5.9
19.50	14.0	-59.7	-12.3	-14.4	119.9	1.0	36.3	25.8	26.9	6.2
19.75	11.0	-66.2	-13.1	-13.2	359.0	1.0	34.0	25.1	26.0	6.9
20.00	8.8	-65.3	-13.2	-12.3	409.5	1.0	34.8	24.6	25.3	7.5

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: $V_{DD} = +7\text{ V}$, $I_{DD} = 550\text{ mA}$, $V_{GG} = -0.84\text{ V}$, $I_{GG} = 0.81\text{ mA}$, Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output $P_{OUT} = +16$ dBm/Tone	1dB Comp. Output	P_{SAT} Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dB)
4.00	4.3	-67.2	-8.1	-20.6	667.0	1.1	25.8	19.7	21.3	17.6
4.50	11.6	-67.7	-11.3	-34.6	338.6	1.1	28.2	21.8	23.8	13.3
5.00	16.3	-69.6	-15.6	-24.5	257.2	1.0	29.2	23.3	25.7	10.7
5.50	18.6	-70.5	-18.3	-18.7	221.2	1.0	29.9	24.1	26.4	9.0
6.00	19.7	-63.0	-18.3	-16.6	82.9	1.0	30.1	24.7	28.8	7.9
6.50	20.1	-60.4	-17.7	-17.0	58.1	1.0	30.4	25.0	29.5	7.2
7.00	20.3	-58.7	-17.9	-18.0	47.7	1.0	30.3	25.3	30.3	6.6
7.50	20.2	-59.1	-18.7	-18.1	51.2	1.0	31.1	25.7	30.7	6.1
8.00	19.9	-58.2	-19.5	-17.3	47.1	1.0	30.6	25.9	31.3	5.8
8.50	19.7	-62.3	-18.7	-15.9	77.6	1.0	30.9	26.1	31.7	5.5
9.00	19.5	-61.3	-17.3	-14.6	70.7	1.0	30.9	26.2	31.9	5.3
9.50	19.4	-62.8	-16.8	-13.9	84.6	1.0	32.2	26.2	31.4	5.1
10.00	19.3	-78.1	-17.3	-13.8	498.8	1.0	32.0	26.5	31.4	5.0
10.25	19.3	-72.2	-17.4	-14.0	253.9	1.0	32.6	26.7	31.5	4.9
10.50	19.3	-80.0	-17.3	-14.2	633.9	1.0	33.6	26.8	31.6	4.9
10.75	19.2	-67.8	-16.7	-14.5	157.0	1.0	33.3	27.0	31.5	4.8
11.00	19.1	-65.6	-16.3	-14.7	122.9	1.0	33.9	27.0	31.4	4.8
11.25	19.0	-65.1	-15.5	-15.0	118.0	1.0	34.8	27.0	31.3	4.9
11.50	18.9	-62.6	-14.9	-15.2	88.8	1.0	34.5	27.1	31.4	4.9
11.75	18.7	-60.9	-13.8	-15.2	74.1	1.0	35.0	27.1	31.3	4.9
12.00	18.6	-61.8	-13.1	-15.2	83.1	1.0	35.2	27.0	31.4	4.9
12.25	18.4	-60.6	-12.1	-15.0	73.2	1.0	34.9	26.9	31.3	5.1
12.50	18.3	-61.9	-11.6	-14.8	85.0	1.0	35.8	26.8	31.4	5.1
12.75	18.3	-62.4	-11.3	-14.7	90.9	1.0	35.2	26.9	31.2	5.2
13.00	18.2	-58.6	-11.4	-14.9	59.0	1.0	35.8	27.1	31.2	5.1
13.25	18.3	-60.6	-12.0	-15.3	74.3	1.0	35.8	27.2	31.1	5.2
13.50	18.4	-62.8	-12.9	-15.6	96.3	1.0	36.0	27.3	31.2	5.1
13.75	18.6	-63.3	-14.7	-16.5	103.1	1.0	35.7	27.7	31.3	5.1
14.00	18.7	-61.9	-16.4	-17.2	88.1	1.0	35.7	28.2	31.4	5.0
14.25	18.9	-60.2	-19.4	-18.4	72.2	1.0	35.6	28.3	31.5	4.9
14.50	19.0	-59.2	-21.5	-19.2	64.4	1.0	35.2	28.7	31.6	4.9
14.75	19.1	-60.4	-23.7	-20.2	73.3	1.0	35.3	29.0	31.7	4.9
15.00	19.2	-61.5	-24.0	-20.6	82.8	1.0	35.8	29.2	31.7	4.9
15.25	19.4	-60.9	-22.0	-20.2	75.7	1.0	35.4	29.2	31.5	4.9
15.50	19.5	-60.6	-20.0	-19.3	72.2	1.0	34.7	29.3	31.7	4.9
15.75	19.6	-58.7	-17.3	-17.9	56.5	1.0	34.4	29.6	31.6	5.0
16.00	19.6	-57.9	-15.8	-17.1	51.0	1.0	33.4	28.9	31.6	4.9
16.25	19.7	-56.0	-14.4	-16.2	40.2	1.0	33.9	28.7	31.2	5.0
16.50	19.7	-55.0	-13.8	-15.8	35.7	1.0	34.0	28.5	31.3	5.0
16.75	19.7	-54.1	-13.2	-15.1	31.7	1.0	33.1	28.5	31.2	5.0
17.00	19.7	-53.9	-12.9	-14.7	31.0	1.0	33.4	28.7	31.1	5.0
17.25	19.6	-52.9	-12.9	-14.5	28.1	1.0	32.6	28.8	30.8	5.0
17.50	19.5	-54.2	-13.0	-14.5	33.0	1.0	31.4	28.5	30.9	5.1
17.75	19.4	-52.7	-13.3	-14.7	28.6	1.0	31.2	28.2	30.9	5.1
18.00	19.2	-52.8	-13.6	-15.1	29.7	1.0	31.1	28.0	30.9	5.2
18.25	18.9	-53.3	-13.9	-16.0	32.9	1.0	30.4	27.7	31.2	5.3
18.50	18.5	-52.7	-13.7	-16.5	32.5	1.0	30.5	27.5	31.1	5.5
18.75	17.4	-55.9	-12.8	-16.6	52.8	1.0	28.1	27.3	30.9	5.7
19.00	16.3	-57.3	-12.3	-16.3	69.4	1.0	27.0	27.1	30.4	5.9
19.25	14.3	-59.0	-12.1	-15.3	107.0	1.0	27.0	26.7	29.9	6.3
19.50	12.7	-63.6	-12.4	-14.5	218.0	1.0	26.9	26.2	29.2	6.7
19.75	10.0	-68.6	-13.1	-13.3	530.6	1.0	26.0	25.6	26.7	7.4
20.00	8.0	-72.3	-13.1	-12.5	1014.1	1.0	26.9	25.1	25.2	8.0

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain(Power Gain) = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +5\text{ V}$, $I_{DD} = 550\text{ mA}$, $V_{GG} = -0.74\text{ V}$, $I_{GG} = 0.81\text{ mA}$, Temperature = -55°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output $P_{OUT} = +16\text{ dBm/Tone}$	1dB Comp. Output	P_{SAT} Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dB)
4.00	5.3	-66.6	-8.3	-18.0	567.6	1.1	32.0	22.5	24.1	15.9
4.50	12.6	-65.4	-11.1	-24.4	231.7	1.1	34.5	22.7	26.9	11.7
5.00	17.5	-70.0	-14.6	-22.5	237.0	1.0	37.6	24.2	26.9	9.2
5.50	20.0	-61.5	-17.2	-18.2	67.1	1.0	38.2	25.4	27.4	7.3
6.00	21.3	-64.5	-17.6	-16.5	81.7	1.0	38.0	25.6	28.1	6.3
6.50	22.0	-60.1	-17.1	-16.5	45.1	1.0	37.7	25.0	27.8	5.9
7.00	22.3	-59.3	-17.4	-16.7	40.0	1.0	37.3	25.9	28.1	5.6
7.50	22.4	-58.8	-18.0	-17.0	38.0	1.0	37.6	26.5	28.2	5.1
8.00	22.2	-57.1	-18.5	-16.3	31.8	1.0	37.2	26.6	28.5	4.6
8.50	22.0	-59.8	-17.5	-15.0	43.6	1.0	37.1	26.6	29.0	4.4
9.00	21.9	-61.4	-16.2	-13.9	53.3	1.0	37.2	27.1	29.4	4.2
9.50	21.9	-67.7	-15.9	-13.2	110.0	1.0	38.1	27.3	29.1	3.9
10.00	22.0	-66.1	-16.9	-13.8	91.9	1.0	37.9	26.6	28.6	3.8
10.25	22.0	-70.6	-17.5	-14.5	155.7	1.0	37.4	26.6	29.0	3.6
10.50	22.0	-72.3	-17.6	-14.7	187.6	1.0	37.9	26.6	29.3	3.5
10.75	22.0	-65.6	-17.0	-14.8	87.5	1.0	36.9	26.4	29.7	3.5
11.00	22.0	-66.1	-16.3	-14.9	92.7	1.0	36.9	26.5	30.0	3.5
11.25	21.9	-66.7	-15.1	-15.2	99.4	1.0	37.1	26.3	29.9	3.5
11.50	21.8	-64.7	-14.4	-15.4	80.0	1.0	36.5	26.4	29.9	3.6
11.75	21.6	-59.9	-13.2	-15.6	46.3	1.0	36.4	26.1	29.7	3.5
12.00	21.5	-63.0	-12.4	-15.6	66.7	1.0	36.1	26.0	29.7	3.7
12.25	21.4	-58.6	-11.4	-15.6	40.4	1.0	35.9	25.7	30.0	3.7
12.50	21.3	-60.1	-11.0	-15.7	48.1	1.0	36.5	25.6	30.1	3.7
12.75	21.2	-60.8	-10.8	-15.9	52.8	1.1	35.7	25.3	29.8	3.8
13.00	21.2	-60.2	-10.9	-16.0	49.4	1.1	36.0	25.4	29.6	3.9
13.25	21.2	-61.9	-11.6	-16.1	60.7	1.0	36.0	25.6	29.3	3.8
13.50	21.3	-58.7	-12.4	-16.2	42.4	1.0	35.6	25.8	29.2	3.9
13.75	21.4	-59.1	-14.1	-16.8	45.2	1.0	35.8	25.8	29.0	3.8
14.00	21.5	-61.0	-15.5	-17.4	56.3	1.0	35.6	25.8	29.0	3.8
14.25	21.6	-58.6	-18.1	-18.5	42.9	1.0	36.0	25.7	29.2	3.7
14.50	21.7	-60.8	-20.0	-19.1	55.0	1.0	35.8	25.7	29.4	3.7
14.75	21.8	-63.1	-22.6	-19.6	71.5	1.0	35.6	25.7	29.3	3.6
15.00	21.9	-60.7	-23.8	-19.7	54.0	1.0	36.3	25.8	29.1	3.6
15.25	22.0	-59.5	-23.1	-19.6	46.4	1.0	36.1	25.7	28.8	3.6
15.50	22.1	-59.1	-21.3	-19.2	44.0	1.0	35.8	25.7	28.7	3.6
15.75	22.2	-59.0	-18.5	-18.0	42.3	1.0	35.7	25.6	28.4	3.6
16.00	22.3	-56.9	-16.9	-17.0	32.3	1.0	35.3	25.6	28.4	3.6
16.25	22.5	-56.6	-15.0	-16.0	30.4	1.0	35.6	25.3	28.1	3.7
16.50	22.6	-54.9	-14.2	-15.6	24.6	1.0	36.0	25.4	28.0	3.6
16.75	22.7	-54.5	-13.4	-15.2	22.9	1.0	35.5	25.6	27.8	3.6
17.00	22.8	-53.1	-13.0	-14.8	19.1	1.0	35.8	25.7	27.7	3.7
17.25	22.9	-51.4	-12.9	-14.3	15.6	1.0	36.1	26.1	27.5	3.6
17.50	22.9	-50.3	-13.0	-14.0	13.8	1.0	35.8	26.4	27.8	3.6
17.75	22.9	-52.2	-13.0	-13.9	17.0	1.0	36.4	26.5	28.1	3.6
18.00	22.9	-52.7	-13.4	-14.3	18.3	1.0	36.2	26.6	28.1	3.6
18.25	22.8	-52.7	-13.9	-15.8	18.7	1.0	36.0	27.0	28.6	3.7
18.50	22.6	-51.8	-13.8	-16.5	17.3	1.0	35.8	26.7	28.4	3.7
18.75	21.8	-53.2	-12.3	-16.4	22.1	1.0	35.6	26.8	27.5	3.9
19.00	20.7	-54.1	-11.1	-15.5	26.9	1.0	36.1	26.6	27.2	4.1
19.25	18.5	-57.1	-10.4	-14.3	48.1	1.1	35.6	26.5	27.4	4.4
19.50	16.7	-59.6	-10.9	-13.7	80.1	1.0	36.5	26.1	27.2	4.7
19.75	13.7	-61.3	-12.6	-12.9	140.9	1.0	36.2	25.4	26.3	5.0
20.00	11.5	-60.8	-13.4	-12.3	171.8	1.0	35.4	24.9	25.7	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: $V_{DD} = +6\text{ V}$, $I_{DD} = 550\text{ mA}$, $V_{GG} = -0.77\text{ V}$, $I_{GG} = 0.81\text{ mA}$, Temperature = -55°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output $P_{OUT} = +16\text{ dBm/Tone}$	1dB Comp. Output	P_{SAT} Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dB)
4.00	5.3	-62.0	-8.3	-18.3	332.4	1.1	27.7	19.9	23.8	16.0
4.50	12.7	-70.7	-11.2	-25.4	427.4	1.1	28.4	21.1	25.8	11.8
5.00	17.6	-64.7	-14.6	-22.7	126.7	1.0	32.3	22.2	27.5	9.3
5.50	20.0	-73.2	-17.2	-18.0	256.9	1.0	33.5	26.2	28.5	7.4
6.00	21.3	-63.2	-17.5	-16.3	69.9	1.0	33.8	26.8	29.1	6.3
6.50	21.9	-61.8	-17.1	-16.4	55.4	1.0	34.0	27.8	29.5	5.7
7.00	22.2	-58.5	-17.3	-16.7	37.3	1.0	33.6	28.0	30.0	5.2
7.50	22.2	-61.0	-17.9	-17.1	50.2	1.0	34.4	27.9	30.0	4.8
8.00	22.0	-58.8	-18.5	-16.4	39.7	1.0	33.5	28.1	30.3	4.5
8.50	21.7	-61.8	-17.5	-15.0	56.9	1.0	33.7	28.3	30.7	4.3
9.00	21.6	-61.7	-16.1	-13.9	56.9	1.0	33.4	28.2	30.9	4.0
9.50	21.5	-64.4	-15.9	-13.1	77.7	1.0	35.4	28.9	30.8	3.9
10.00	21.6	-66.8	-16.9	-13.7	104.1	1.0	35.3	29.2	30.6	3.7
10.25	21.6	-90.4	-17.4	-14.3	1587.9	1.0	35.8	29.6	30.9	3.7
10.50	21.6	-68.7	-17.4	-14.5	129.9	1.0	36.8	29.8	31.1	3.6
10.75	21.6	-77.9	-16.8	-14.6	375.2	1.0	36.3	30.0	31.3	3.6
11.00	21.5	-71.9	-16.0	-14.7	190.4	1.0	36.6	30.1	31.4	3.6
11.25	21.4	-68.0	-14.9	-15.0	122.3	1.0	37.2	29.8	31.5	3.6
11.50	21.3	-65.2	-14.2	-15.2	89.4	1.0	36.9	29.4	31.6	3.6
11.75	21.1	-61.3	-13.1	-15.3	57.9	1.0	37.2	28.9	31.5	3.7
12.00	21.0	-59.7	-12.4	-15.3	48.4	1.0	37.3	28.8	31.6	3.8
12.25	20.8	-64.5	-11.5	-15.4	84.6	1.0	37.0	28.9	31.7	3.9
12.50	20.8	-60.6	-11.1	-15.5	54.3	1.0	37.5	29.0	31.8	4.0
12.75	20.7	-60.0	-10.9	-15.7	50.7	1.1	37.0	28.3	31.5	4.0
13.00	20.7	-59.5	-11.0	-15.8	48.4	1.0	37.3	28.2	31.3	4.0
13.25	20.7	-60.0	-11.8	-15.9	51.7	1.0	37.2	27.9	30.9	4.0
13.50	20.8	-61.1	-12.6	-16.0	59.5	1.0	37.1	28.3	30.8	3.9
13.75	20.9	-61.3	-14.3	-16.7	61.5	1.0	37.2	28.0	30.7	3.9
14.00	21.0	-61.9	-15.7	-17.4	66.0	1.0	37.0	27.9	30.8	3.8
14.25	21.2	-60.3	-18.3	-18.5	54.8	1.0	37.0	27.6	31.2	3.7
14.50	21.3	-65.1	-20.3	-19.2	94.9	1.0	36.8	27.6	31.5	3.7
14.75	21.4	-59.7	-22.7	-19.8	50.5	1.0	36.7	27.6	31.6	3.7
15.00	21.5	-60.3	-23.9	-19.9	53.6	1.0	37.0	27.8	31.6	3.7
15.25	21.6	-60.6	-22.9	-19.8	55.0	1.0	36.9	27.7	31.3	3.7
15.50	21.7	-60.9	-21.1	-19.4	55.9	1.0	36.4	27.8	31.3	3.7
15.75	21.9	-57.8	-18.4	-18.1	38.2	1.0	36.3	27.6	31.1	3.7
16.00	22.0	-56.8	-16.8	-17.1	33.5	1.0	35.6	27.6	31.1	3.7
16.25	22.1	-57.2	-14.9	-16.0	34.1	1.0	35.7	27.2	30.5	3.8
16.50	22.2	-55.7	-14.2	-15.7	28.0	1.0	35.8	27.3	30.5	3.8
16.75	22.3	-55.1	-13.3	-15.2	25.6	1.0	35.6	27.8	30.3	3.8
17.00	22.4	-53.1	-13.0	-14.9	20.2	1.0	35.5	28.1	30.1	3.7
17.25	22.4	-54.1	-12.8	-14.4	22.5	1.0	35.1	28.9	29.9	3.7
17.50	22.3	-51.4	-13.0	-14.1	16.6	1.0	34.2	29.0	30.0	3.7
17.75	22.3	-53.1	-13.2	-13.9	20.2	1.0	34.0	29.1	29.9	3.8
18.00	22.3	-52.3	-13.5	-14.4	18.8	1.0	34.0	29.3	29.9	3.8
18.25	22.1	-50.9	-13.9	-15.8	16.5	1.0	33.7	29.7	30.6	3.9
18.50	21.9	-52.5	-13.6	-16.4	20.5	1.0	33.7	28.6	30.4	4.1
18.75	20.9	-51.8	-12.1	-16.2	20.6	1.0	31.6	28.3	30.0	4.3
19.00	19.9	-54.5	-11.0	-15.4	31.0	1.0	31.1	27.8	29.3	4.5
19.25	17.7	-57.1	-10.4	-14.3	52.7	1.0	30.1	27.9	28.8	4.9
19.50	16.0	-61.1	-11.0	-13.7	102.9	1.0	29.6	27.3	28.3	5.1
19.75	13.1	-77.2	-12.7	-12.9	935.9	1.0	29.4	26.5	27.5	5.8
20.00	11.0	-71.8	-13.5	-12.3	640.6	1.0	29.0	26.0	26.6	6.4

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain(Power Gain) = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +7\text{ V}$, $I_{DD} = 550\text{ mA}$, $V_{GG} = -0.84\text{ V}$, $I_{GG} = 0.81\text{ mA}$, Temperature = -55°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output $P_{OUT} = +16\text{ dBm/Tone}$	1dB Comp. Output	P_{SAT} Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dB)
4.00	5.1	-65.7	-8.3	-18.4	524.5	1.1	26.4	17.4	21.8	16.2
4.50	12.5	-68.6	-11.2	-26.5	341.5	1.1	27.6	19.2	23.7	12.0
5.00	17.4	-64.4	-14.7	-23.1	124.8	1.0	27.8	21.1	25.1	9.4
5.50	19.8	-71.4	-17.2	-17.9	212.8	1.0	27.8	22.7	26.0	7.5
6.00	21.1	-62.7	-17.5	-16.1	68.0	1.0	27.5	24.1	27.0	6.5
6.50	21.6	-62.1	-17.1	-16.2	59.4	1.0	27.5	24.5	28.3	6.1
7.00	21.8	-57.5	-17.3	-16.7	34.6	1.0	27.4	25.1	30.3	5.8
7.50	21.8	-59.6	-17.9	-17.2	44.5	1.0	28.5	25.4	31.0	5.3
8.00	21.6	-62.8	-18.4	-16.4	65.7	1.0	27.8	25.9	31.6	4.8
8.50	21.3	-60.4	-17.4	-15.0	51.1	1.0	28.5	26.4	32.5	4.6
9.00	21.1	-64.7	-16.1	-13.9	84.4	1.0	28.3	26.5	32.5	4.3
9.50	21.1	-63.5	-15.9	-13.1	74.0	1.0	30.3	26.2	32.4	4.1
10.00	21.1	-73.1	-16.9	-13.6	226.9	1.0	30.1	26.5	31.7	3.9
10.25	21.1	-70.7	-17.3	-14.2	173.5	1.0	30.7	27.1	32.3	3.8
10.50	21.1	-73.1	-17.3	-14.4	230.8	1.0	31.9	27.5	32.5	3.7
10.75	21.0	-74.2	-16.6	-14.4	261.5	1.0	31.5	27.9	32.7	3.7
11.00	20.9	-67.4	-15.8	-14.5	120.6	1.0	32.2	28.1	32.7	3.7
11.25	20.8	-66.8	-14.8	-14.8	113.8	1.0	33.2	28.2	32.6	3.7
11.50	20.7	-63.8	-14.1	-15.0	81.2	1.0	32.7	28.3	32.4	3.7
11.75	20.5	-66.1	-13.1	-15.1	108.2	1.0	33.3	28.2	32.3	3.8
12.00	20.3	-60.8	-12.3	-15.1	58.9	1.0	33.6	27.9	32.3	3.8
12.25	20.2	-59.7	-11.5	-15.1	52.3	1.0	33.2	27.8	32.3	3.8
12.50	20.1	-60.0	-11.1	-15.3	54.6	1.0	34.4	27.7	32.6	4.0
12.75	20.0	-61.0	-11.0	-15.5	61.8	1.0	33.8	27.9	32.6	4.0
13.00	20.0	-58.0	-11.2	-15.6	44.0	1.0	34.6	27.9	32.5	4.1
13.25	20.1	-58.9	-11.9	-15.6	49.2	1.0	34.7	27.8	32.5	4.0
13.50	20.1	-59.5	-12.8	-15.8	52.9	1.0	35.3	27.8	32.5	4.0
13.75	20.3	-63.1	-14.6	-16.5	80.7	1.0	35.0	27.7	32.2	4.0
14.00	20.4	-60.8	-15.9	-17.2	61.9	1.0	35.1	28.0	32.3	3.8
14.25	20.6	-60.8	-18.5	-18.5	62.4	1.0	35.0	28.5	32.4	3.8
14.50	20.7	-63.7	-20.4	-19.3	86.1	1.0	34.8	29.0	32.6	3.8
14.75	20.8	-60.5	-22.8	-19.9	59.3	1.0	34.8	29.8	32.8	3.8
15.00	21.0	-61.0	-23.8	-20.0	62.1	1.0	35.2	30.0	32.9	3.7
15.25	21.1	-62.8	-22.7	-19.9	75.2	1.0	35.0	30.4	32.8	3.8
15.50	21.2	-60.2	-21.0	-19.5	54.9	1.0	34.2	30.7	32.8	3.8
15.75	21.4	-59.6	-18.4	-18.2	49.7	1.0	34.1	30.9	32.7	3.7
16.00	21.5	-57.3	-16.8	-17.1	37.3	1.0	32.6	29.9	32.7	3.8
16.25	21.6	-56.0	-14.9	-16.1	31.4	1.0	33.3	28.9	32.2	3.7
16.50	21.7	-56.3	-14.1	-15.8	31.8	1.0	33.0	28.7	32.2	3.7
16.75	21.7	-55.7	-13.3	-15.3	29.1	1.0	32.5	28.7	32.0	3.8
17.00	21.8	-53.8	-13.0	-15.0	23.1	1.0	32.6	28.9	31.9	3.8
17.25	21.7	-52.0	-12.8	-14.5	18.9	1.0	31.5	29.2	31.6	3.8
17.50	21.7	-52.8	-13.0	-14.2	21.0	1.0	29.9	29.5	31.7	3.7
17.75	21.6	-51.4	-13.2	-14.0	18.0	1.0	29.6	29.7	31.8	3.8
18.00	21.5	-53.9	-13.6	-14.5	24.6	1.0	29.5	29.2	31.6	3.8
18.25	21.3	-53.5	-13.9	-15.9	24.4	1.0	29.5	28.4	31.8	3.9
18.50	21.0	-53.2	-13.5	-16.4	24.3	1.0	29.5	28.1	31.6	4.0
18.75	20.0	-53.1	-12.0	-16.0	26.5	1.0	25.7	28.0	31.5	4.1
19.00	19.0	-56.0	-10.9	-15.3	40.9	1.0	25.2	27.5	30.9	4.4
19.25	16.9	-58.1	-10.5	-14.3	65.6	1.0	24.9	27.0	30.5	4.6
19.50	15.3	-66.5	-11.0	-13.6	207.6	1.0	24.7	26.2	30.1	4.9
19.75	12.5	-61.3	-12.8	-13.0	161.9	1.0	24.1	24.9	28.4	5.3
20.00	10.5	-71.7	-13.5	-12.4	680.7	1.0	22.3	24.0	26.9	5.9

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain(Power Gain) = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +5\text{ V}$, $I_{DD} = 550\text{ mA}$, $V_{GG} = -0.74\text{ V}$, $I_{GG} = 0.81\text{ mA}$, Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output $P_{OUT} = +16$ dBm/Tone	1dB Comp. Output	P_{SAT} Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dB)
4.00	4.1	-67.5	-8.1	-20.9	698.8	1.1	30.8	22.8	24.9	18.2
4.50	11.2	-65.7	-11.5	-32.0	278.4	1.1	33.4	23.0	27.2	14.0
5.00	15.8	-64.3	-16.1	-24.6	148.3	1.0	36.5	24.2	27.5	11.4
5.50	18.0	-68.3	-19.1	-19.1	183.7	1.0	37.1	25.3	27.5	9.5
6.00	19.1	-65.4	-19.1	-17.3	116.4	1.0	37.2	25.4	27.8	8.5
6.50	19.6	-63.2	-18.1	-17.6	85.8	1.0	37.1	25.2	27.7	8.2
7.00	19.7	-58.8	-18.2	-18.1	51.1	1.0	37.0	26.3	28.0	7.8
7.50	19.7	-58.1	-19.2	-18.3	48.1	1.0	37.6	26.6	28.1	7.3
8.00	19.5	-58.9	-20.3	-17.4	54.1	1.0	37.2	26.6	28.4	6.9
8.50	19.3	-58.9	-19.4	-16.0	55.2	1.0	37.3	26.9	29.0	6.5
9.00	19.2	-63.3	-17.8	-14.9	92.8	1.0	37.2	27.3	29.2	6.3
9.50	19.1	-67.5	-17.3	-14.1	150.2	1.0	37.6	26.8	28.8	6.0
10.00	19.1	-79.1	-17.9	-14.2	577.5	1.0	35.9	26.3	28.5	5.9
10.25	19.1	-63.0	-18.1	-14.5	90.5	1.0	35.4	26.1	28.8	5.7
10.50	19.1	-63.3	-17.9	-14.6	94.7	1.0	36.1	26.0	28.9	5.6
10.75	19.1	-68.9	-17.3	-14.8	181.2	1.0	34.8	25.7	29.0	5.7
11.00	19.1	-64.1	-16.7	-15.0	105.3	1.0	35.1	25.6	29.0	5.7
11.25	19.0	-60.4	-16.0	-15.5	69.4	1.0	35.4	25.5	29.0	5.6
11.50	18.9	-62.5	-15.4	-15.9	89.4	1.0	34.7	25.6	29.1	5.7
11.75	18.8	-60.2	-14.3	-16.1	69.2	1.0	34.7	25.4	29.1	5.7
12.00	18.7	-58.6	-13.5	-16.0	58.1	1.0	34.6	25.4	29.2	5.7
12.25	18.5	-58.1	-12.5	-15.7	55.1	1.0	34.2	25.1	29.1	5.8
12.50	18.4	-59.3	-11.9	-15.5	63.1	1.0	35.1	25.2	29.1	5.9
12.75	18.3	-57.7	-11.4	-15.4	53.2	1.0	34.2	25.0	28.9	6.0
13.00	18.3	-60.4	-11.4	-15.4	72.3	1.0	34.6	25.2	29.0	6.0
13.25	18.4	-58.6	-12.0	-15.5	59.4	1.0	34.5	25.3	29.0	6.1
13.50	18.5	-61.1	-12.9	-15.8	79.5	1.0	34.1	25.6	29.2	6.0
13.75	18.6	-61.4	-14.8	-16.5	83.9	1.0	34.3	25.6	29.3	6.0
14.00	18.7	-59.4	-16.5	-17.3	67.0	1.0	34.0	25.7	29.4	6.0
14.25	18.8	-60.4	-19.6	-18.6	75.5	1.0	34.4	25.7	29.5	5.9
14.50	18.9	-60.9	-22.0	-19.6	80.0	1.0	34.4	25.8	29.6	5.8
14.75	19.0	-59.9	-24.3	-20.7	70.7	1.0	34.2	25.9	29.6	5.8
15.00	19.1	-58.4	-24.6	-21.0	59.2	1.0	35.0	26.0	29.7	5.8
15.25	19.2	-59.2	-22.3	-20.6	64.3	1.0	34.7	26.0	29.5	5.8
15.50	19.3	-57.1	-20.2	-19.7	50.3	1.0	34.7	26.1	29.5	5.9
15.75	19.4	-55.6	-17.4	-17.9	41.6	1.0	34.3	26.1	29.2	5.9
16.00	19.4	-54.1	-15.9	-16.8	34.4	1.0	34.3	26.2	29.2	5.9
16.25	19.4	-54.9	-14.5	-15.8	37.1	1.0	34.3	26.0	28.8	5.9
16.50	19.5	-55.7	-13.9	-15.5	40.5	1.0	35.6	26.1	29.0	6.0
16.75	19.5	-52.9	-13.2	-15.0	29.1	1.0	35.4	26.3	28.8	6.0
17.00	19.5	-52.5	-13.0	-14.7	27.6	1.0	35.8	26.3	28.7	6.1
17.25	19.4	-51.8	-13.0	-14.5	25.8	1.0	35.8	26.4	28.6	6.0
17.50	19.3	-52.8	-13.3	-14.5	29.4	1.0	35.1	26.6	28.7	6.1
17.75	19.2	-52.5	-13.7	-14.9	29.3	1.0	36.1	26.7	28.7	6.1
18.00	19.1	-51.8	-14.2	-15.6	27.6	1.0	35.7	26.7	28.7	6.2
18.25	18.8	-51.5	-14.7	-17.0	28.2	1.0	35.9	26.7	28.8	6.2
18.50	18.4	-53.4	-14.4	-17.5	36.6	1.0	36.5	26.4	28.4	6.4
18.75	17.2	-55.1	-13.5	-17.2	50.5	1.0	36.7	26.3	28.1	6.5
19.00	16.1	-55.5	-12.9	-16.6	60.3	1.0	36.9	25.8	27.5	6.9
19.25	13.9	-58.5	-12.7	-15.5	108.7	1.0	35.0	25.4	26.9	7.1
19.50	12.1	-61.7	-13.0	-14.5	191.4	1.0	35.1	24.8	26.2	7.6
19.75	9.2	-66.5	-13.7	-13.4	465.8	1.0	33.6	24.1	25.1	8.1
20.00	7.1	-61.1	-13.4	-12.5	317.0	1.0	35.6	23.6	24.4	9.1

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain(Power Gain) = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +6\text{ V}$, $I_{DD} = 550\text{ mA}$, $V_{GG} = -0.77\text{ V}$, $I_{GG} = 0.81\text{ mA}$, Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output $P_{OUT} = +16$ dBm/Tone	1dB Comp. Output	P_{SAT} Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dB)
4.00	3.9	-64.9	-8.1	-21.4	533.3	1.1	32.5	21.0	24.0	18.3
4.50	11.1	-64.0	-11.5	-37.2	233.3	1.1	33.7	21.9	26.6	14.1
5.00	15.6	-74.2	-16.1	-24.8	470.6	1.0	34.2	23.9	27.7	11.5
5.50	17.8	-67.1	-19.1	-18.8	163.4	1.0	34.5	25.4	27.9	9.6
6.00	18.8	-59.6	-19.0	-16.9	61.6	1.0	34.5	25.5	28.3	8.6
6.50	19.2	-59.7	-18.1	-17.4	59.8	1.0	34.6	25.2	28.7	8.0
7.00	19.3	-56.8	-18.1	-18.1	42.4	1.0	34.5	26.7	29.3	7.4
7.50	19.2	-59.3	-19.1	-18.3	58.0	1.0	35.3	27.0	29.5	7.0
8.00	19.0	-56.1	-20.2	-17.6	41.4	1.0	35.0	26.8	29.9	6.7
8.50	18.8	-56.9	-19.3	-16.0	46.5	1.0	35.4	26.9	30.4	6.4
9.00	18.6	-61.5	-17.8	-15.0	80.3	1.0	35.5	27.3	30.7	6.1
9.50	18.5	-66.5	-17.3	-14.1	144.7	1.0	36.9	27.4	30.5	6.0
10.00	18.5	-68.1	-17.9	-14.0	176.0	1.0	36.7	27.3	30.3	5.8
10.25	18.4	-69.3	-17.9	-14.2	203.8	1.0	36.5	27.4	30.4	5.7
10.50	18.4	-67.4	-17.7	-14.3	164.2	1.0	37.1	27.4	30.5	5.7
10.75	18.3	-70.2	-17.1	-14.5	227.3	1.0	36.1	27.2	30.5	5.7
11.00	18.3	-63.6	-16.6	-14.7	108.0	1.0	36.3	26.8	30.4	5.7
11.25	18.2	-64.4	-15.9	-15.2	119.6	1.0	36.5	26.6	30.3	5.7
11.50	18.1	-63.6	-15.3	-15.5	110.8	1.0	35.9	26.7	30.4	5.8
11.75	17.9	-58.4	-14.3	-15.8	61.9	1.0	36.0	26.5	30.4	5.8
12.00	17.8	-58.2	-13.6	-15.7	60.7	1.0	35.8	26.4	30.4	5.9
12.25	17.6	-59.3	-12.5	-15.3	69.4	1.0	35.5	26.1	30.3	6.0
12.50	17.6	-59.3	-12.0	-15.1	69.6	1.0	36.1	26.1	30.3	6.1
12.75	17.5	-60.1	-11.5	-15.0	77.0	1.0	35.2	25.9	30.1	6.1
13.00	17.5	-59.1	-11.6	-15.1	68.6	1.0	35.6	26.1	30.1	6.2
13.25	17.6	-59.2	-12.1	-15.3	70.2	1.0	35.5	26.3	30.1	6.2
13.50	17.7	-59.3	-13.0	-15.6	70.8	1.0	35.2	26.7	30.4	6.1
13.75	17.8	-60.1	-14.9	-16.4	78.5	1.0	35.3	26.7	30.5	6.1
14.00	17.9	-61.1	-16.6	-17.2	88.5	1.0	34.9	26.7	30.5	6.0
14.25	18.1	-59.6	-19.8	-18.7	75.1	1.0	35.3	26.7	30.6	5.9
14.50	18.2	-58.8	-22.1	-19.8	68.3	1.0	35.2	26.7	30.7	5.9
14.75	18.4	-59.1	-24.3	-21.1	69.7	1.0	35.1	26.9	30.7	5.9
15.00	18.4	-59.5	-24.5	-21.4	73.0	1.0	35.7	27.1	30.8	5.9
15.25	18.6	-58.3	-22.1	-20.8	62.8	1.0	35.2	27.2	30.7	5.9
15.50	18.6	-60.2	-19.9	-19.8	76.7	1.0	35.2	27.4	30.8	6.0
15.75	18.7	-55.2	-17.2	-18.1	42.6	1.0	34.6	27.4	30.6	6.0
16.00	18.8	-56.2	-15.8	-17.1	47.2	1.0	35.1	27.5	30.5	6.0
16.25	18.8	-54.3	-14.4	-16.0	37.2	1.0	34.4	27.5	30.2	6.1
16.50	18.8	-54.5	-13.9	-15.6	38.0	1.0	35.0	27.7	30.3	6.0
16.75	18.8	-54.8	-13.3	-15.0	39.3	1.0	34.7	27.9	30.1	6.1
17.00	18.7	-53.1	-13.1	-14.8	32.4	1.0	36.0	27.9	30.0	6.1
17.25	18.6	-52.2	-13.0	-14.6	29.7	1.0	35.0	27.8	29.8	6.2
17.50	18.5	-51.9	-13.3	-14.7	29.2	1.0	34.9	28.0	29.9	6.2
17.75	18.4	-51.4	-13.7	-15.0	28.3	1.0	34.3	28.3	30.0	6.3
18.00	18.2	-51.5	-14.1	-15.6	29.5	1.0	35.0	28.2	30.0	6.4
18.25	17.8	-52.9	-14.4	-16.7	36.6	1.0	33.8	28.0	30.2	6.5
18.50	17.4	-53.9	-14.2	-17.2	43.4	1.0	34.6	27.7	29.9	6.6
18.75	16.3	-54.1	-13.5	-17.3	50.2	1.0	31.6	27.4	29.6	6.9
19.00	15.2	-57.3	-13.1	-16.9	81.8	1.0	30.8	26.9	29.0	7.2
19.25	13.1	-60.3	-12.9	-15.7	147.0	1.0	31.4	26.4	28.2	7.8
19.50	11.5	-60.6	-13.1	-14.7	182.0	1.0	31.0	25.9	27.2	8.2
19.75	8.7	-63.6	-13.6	-13.5	354.5	1.0	30.8	25.1	25.8	9.1
20.00	6.7	-67.2	-13.2	-12.6	671.1	1.0	31.2	24.6	25.1	9.9

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain(Power Gain) = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +7\text{ V}$, $I_{DD} = 550\text{ mA}$, $V_{GG} = -0.84\text{ V}$, $I_{GG} = 0.81\text{ mA}$, Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output $P_{OUT} = +16$ dBm/Tone	1dB Comp. Output	P_{SAT} Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dB)
4.00	3.5	-65.2	-8.1	-21.5	581.6	1.1	27.8	18.3	22.2	18.6
4.50	10.8	-63.6	-11.5	-44.6	231.4	1.1	29.5	19.4	24.9	14.3
5.00	15.4	-72.3	-16.1	-24.8	389.5	1.0	32.0	21.2	26.6	11.7
5.50	17.5	-82.6	-19.1	-18.6	1004.4	1.0	32.5	22.7	26.9	9.7
6.00	18.5	-66.9	-18.9	-16.6	147.9	1.0	32.5	22.9	27.8	8.8
6.50	18.9	-59.9	-18.1	-17.2	63.6	1.0	32.6	22.8	28.4	8.4
7.00	18.9	-59.1	-18.1	-18.1	58.0	1.0	32.6	24.0	29.5	8.0
7.50	18.8	-59.5	-19.0	-18.4	62.9	1.0	33.0	24.4	29.7	7.5
8.00	18.5	-60.3	-20.2	-17.7	71.1	1.0	32.9	24.2	30.0	7.1
8.50	18.2	-59.9	-19.3	-16.1	69.7	1.0	33.1	24.2	30.3	6.8
9.00	18.0	-65.4	-17.8	-15.0	133.8	1.0	33.3	24.4	30.6	6.5
9.50	17.9	-65.0	-17.4	-14.0	130.2	1.0	33.9	24.6	30.6	6.2
10.00	17.8	-66.3	-17.8	-13.8	154.6	1.0	33.8	24.6	30.4	6.0
10.25	17.7	-69.9	-17.8	-14.0	234.0	1.0	34.1	24.8	30.4	5.9
10.50	17.7	-65.5	-17.6	-14.1	142.9	1.0	34.8	24.9	30.4	5.8
10.75	17.6	-60.1	-16.9	-14.3	77.8	1.0	34.5	25.0	30.3	5.8
11.00	17.5	-64.6	-16.5	-14.4	131.9	1.0	34.8	25.0	30.2	5.8
11.25	17.4	-60.1	-15.8	-14.9	80.2	1.0	35.5	24.9	30.2	5.8
11.50	17.3	-62.1	-15.3	-15.2	102.4	1.0	35.2	25.0	30.3	5.9
11.75	17.1	-58.9	-14.3	-15.5	71.5	1.0	35.5	25.1	30.3	5.9
12.00	17.0	-60.1	-13.6	-15.4	82.8	1.0	35.6	25.3	30.3	5.9
12.25	16.8	-60.7	-12.6	-15.0	89.6	1.0	35.3	25.4	30.2	6.0
12.50	16.7	-60.2	-12.1	-14.8	84.7	1.0	35.9	25.4	30.4	6.1
12.75	16.7	-58.4	-11.7	-14.7	69.0	1.0	35.3	25.3	30.2	6.2
13.00	16.7	-60.7	-11.7	-14.8	91.1	1.0	35.6	25.3	30.4	6.3
13.25	16.8	-59.7	-12.3	-15.1	81.3	1.0	35.6	25.4	30.4	6.2
13.50	16.9	-60.7	-13.1	-15.4	91.3	1.0	35.5	25.7	30.6	6.2
13.75	17.1	-62.0	-15.0	-16.3	106.6	1.0	35.3	26.0	30.7	6.2
14.00	17.2	-60.4	-16.7	-17.1	88.9	1.0	34.9	26.4	30.8	6.1
14.25	17.4	-62.3	-19.9	-18.8	110.9	1.0	35.0	26.8	30.9	6.1
14.50	17.5	-59.6	-22.1	-20.0	81.6	1.0	34.6	27.1	31.0	6.0
14.75	17.7	-60.0	-24.3	-21.3	84.3	1.0	34.6	27.3	31.1	6.0
15.00	17.8	-59.1	-24.3	-21.6	75.5	1.0	34.8	27.5	31.2	6.0
15.25	17.9	-58.4	-22.0	-21.0	68.9	1.0	34.5	27.4	31.1	5.9
15.50	18.0	-59.5	-19.8	-20.0	76.5	1.0	34.1	27.6	31.3	6.0
15.75	18.1	-55.8	-17.1	-18.3	49.3	1.0	33.6	27.5	31.1	6.0
16.00	18.1	-55.6	-15.7	-17.2	47.7	1.0	33.2	27.5	31.1	6.0
16.25	18.1	-57.1	-14.4	-16.1	55.5	1.0	32.7	27.3	30.8	6.1
16.50	18.1	-53.3	-13.9	-15.7	35.7	1.0	32.8	27.4	30.9	6.0
16.75	18.0	-53.9	-13.3	-15.1	38.6	1.0	32.3	27.3	30.8	6.2
17.00	18.0	-52.6	-13.1	-14.9	33.3	1.0	34.2	27.2	30.7	6.1
17.25	17.8	-51.9	-13.1	-14.8	31.4	1.0	32.7	27.1	30.6	6.2
17.50	17.7	-52.2	-13.3	-14.9	33.2	1.0	32.7	27.1	30.7	6.2
17.75	17.5	-52.3	-13.6	-15.2	34.5	1.0	31.5	26.8	30.6	6.3
18.00	17.4	-52.6	-14.0	-15.7	36.9	1.0	32.0	26.4	30.6	6.4
18.25	16.9	-52.9	-14.3	-16.6	40.4	1.0	31.0	26.3	30.7	6.5
18.50	16.5	-54.6	-14.1	-17.1	52.4	1.0	31.0	26.0	30.4	6.5
18.75	15.4	-55.6	-13.5	-17.3	66.2	1.0	27.6	25.9	30.0	6.7
19.00	14.3	-56.1	-13.2	-16.9	78.7	1.0	26.2	25.5	29.3	7.1
19.25	12.4	-58.8	-13.0	-15.8	134.3	1.0	27.8	25.0	28.3	7.3
19.50	10.8	-67.5	-13.2	-14.8	437.3	1.0	27.6	24.4	27.1	7.9
19.75	8.2	-65.4	-13.5	-13.6	464.4	1.0	27.1	23.3	25.4	8.4
20.00	6.2	-63.1	-13.2	-12.7	443.0	1.0	27.1	22.6	24.1	9.2