

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required

Definitions:

Input Return Loss = S11 (dB)

Gain (Power Gain) = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +6\text{ V}$, $I_{DD} = 1750\text{ mA}$ @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	IP-3 Output	IM3 Output	1dB Comp. Output	P _{SAT} Output	Noise Figure	2nd Harmonics	3rd Harmonics
(GHz)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBc)	(dBm)	(dBm)	(dB)	(dBc)	(dBc)
4.6	9.6	-64.9	-4.9	-4.3	29.9	-26.6	20.9	23.5	8.6	-22.0	-72.7
4.7	12.6	-63.4	-5.2	-4.7	34.8	-36.1	22.9	26.1	8.3	-31.6	-74.2
4.8	15.6	-62.0	-5.4	-5.2	37.6	-41.5	24.2	28.3	8.0	-42.8	-73.8
4.9	18.4	-61.3	-5.7	-5.9	39.0	-44.2	25.2	30.3	7.5	-53.4	-74.5
5.0	21.1	-61.0	-6.1	-6.9	39.8	-45.7	25.9	32.0	7.3	-66.6	-73.9
5.1	23.6	-60.8	-6.6	-8.2	40.2	-46.3	26.3	33.4	7.0	-66.8	-74.3
5.2	25.8	-60.7	-7.2	-10.0	40.7	-47.9	26.9	34.7	6.8	-63.3	-73.4
5.3	27.6	-61.4	-8.0	-12.3	41.2	-48.2	28.1	36.0	6.6	-63.2	-72.0
5.4	28.9	-63.2	-8.9	-14.0	41.7	-49.9	29.8	37.0	6.5	-61.5	-73.1
5.5	29.7	-65.3	-10.0	-13.7	42.4	-50.3	33.0	37.5	6.3	-57.9	-77.3
5.6	30.0	-69.3	-11.2	-12.4	43.1	-51.2	35.2	37.6	6.2	-56.4	-75.6
5.7	30.1	-74.0	-12.5	-11.2	43.7	-52.3	35.9	37.7	6.1	-57.5	-70.6
5.8	30.0	-87.2	-13.8	-10.3	44.4	-54.2	36.3	37.9	5.9	-58.4	-71.7
5.9	29.9	-82.5	-14.7	-9.8	44.7	-55.3	36.5	38.0	5.9	-59.9	-72.1
6.0	29.8	-75.3	-15.3	-9.4	45.0	-54.9	36.6	37.9	5.8	-58.5	-71.1
6.1	29.7	-71.7	-15.7	-9.3	45.3	-55.1	36.6	37.8	5.7	-59.7	-69.7
6.2	29.6	-71.0	-16.1	-9.4	45.4	-55.2	36.8	37.8	5.6	-60.6	-69.3
6.3	29.6	-71.0	-16.7	-9.6	45.4	-55.3	37.0	38.0	5.6	-62.5	-69.4
6.4	29.7	-69.1	-17.5	-9.9	45.4	-55.4	37.1	38.1	5.5	-62.9	-69.0
6.5	29.7	-70.4	-18.8	-10.4	45.1	-55.2	37.2	38.1	5.5	-62.7	-67.2
6.6	29.8	-72.3	-20.6	-11.1	44.9	-54.5	37.2	38.1	5.4	-63.3	-66.9
6.7	29.9	-72.8	-23.1	-12.0	44.6	-54.0	37.2	38.1	5.4	-64.8	-66.6
6.8	30.0	-73.6	-26.2	-13.4	44.1	-53.3	37.2	38.0	5.4	-64.9	-66.6
6.9	30.0	-81.3	-27.1	-15.1	44.1	-53.2	37.3	38.0	5.4	-68.3	-65.9
7.0	30.0	-81.9	-24.3	-17.5	43.9	-53.1	37.3	37.7	5.5	-64.1	-65.7
7.1	29.9	-72.0	-21.2	-19.8	43.8	-52.9	37.2	37.4	5.5	-64.8	-66.3
7.2	29.7	-66.2	-19.4	-19.3	44.0	-53.4	37.1	37.1	5.6	-69.2	-66.5
7.3	29.5	-64.1	-18.2	-15.5	44.2	-53.9	36.8	36.7	5.7	-64.0	-66.6
7.4	29.2	-63.0	-18.0	-12.0	44.7	-54.7	36.5	36.3	5.9	-62.3	-67.9
7.5	28.6	-62.9	-19.2	-9.4	45.5	-56.3	36.0	35.9	6.1	-61.1	-66.9
7.6	27.8	-63.6	-23.2	-7.4	46.3	-57.8	35.3	35.5	6.3	-60.7	-65.1
7.7	26.7	-65.8	-39.5	-6.1	47.1	-59.1	34.6	34.9	6.6	-58.8	-65.8
7.8	25.4	-66.9	-22.6	-5.2	47.1	-58.9	34.0	34.4	6.9	-61.1	-69.4
7.9	23.8	-62.2	-15.7	-4.5	46.3	-57.6	33.4	33.9	7.2	-62.6	-77.4
8.0	21.9	-58.0	-11.9	-4.1	45.1	-55.9	32.9	33.3	7.4	-62.9	-75.3
8.1	20.0	-56.7	-9.4	-3.9	44.0	-54.0	32.4	32.8	7.6	-65.7	-72.3

Typical Performance Data

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Definitions:

Input Return Loss = S11 (dB)

Gain (Power Gain) = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +7\text{ V}$, $I_{DD} = 1750\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	IP-3 Output	IM3 Output	1dB Comp. Output	P _{SAT} Output	Noise Figure	2nd Harmonics	3rd Harmonics
(GHz)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBc)	(dBm)	(dBm)	(dB)	(dBc)	(dBc)
4.6	9.0	-65.0	-5.0	-4.1	29.6	-25.4	20.9	23.3	8.9	-23.4	-74.9
4.7	12.0	-63.1	-5.2	-4.5	34.3	-35.4	22.8	26.1	8.5	-32.4	-75.9
4.8	15.0	-62.1	-5.5	-5.0	37.2	-41.1	24.1	28.5	8.1	-42.8	-74.4
4.9	17.9	-61.3	-5.8	-5.6	38.7	-44.0	25.0	30.8	7.7	-54.6	-74.6
5.0	20.7	-61.0	-6.2	-6.5	39.6	-45.6	25.8	32.6	7.3	-73.5	-74.2
5.1	23.3	-60.8	-6.7	-7.8	40.1	-46.3	26.3	34.1	7.1	-64.9	-75.2
5.2	25.5	-60.8	-7.2	-9.6	40.7	-47.9	26.9	35.4	6.8	-60.2	-75.9
5.3	27.4	-61.5	-8.0	-11.9	41.2	-48.4	28.1	36.8	6.7	-59.2	-74.9
5.4	28.7	-62.9	-8.9	-14.1	41.8	-50.1	29.8	37.8	6.5	-59.7	-74.5
5.5	29.5	-64.6	-10.0	-14.6	42.6	-50.7	33.1	38.1	6.3	-58.6	-79.1
5.6	29.8	-69.1	-11.2	-13.5	43.3	-51.7	36.0	38.2	6.3	-58.3	-75.8
5.7	29.9	-72.7	-12.5	-12.3	43.9	-52.8	36.8	38.3	6.2	-60.0	-71.7
5.8	29.8	-82.1	-13.7	-11.3	44.7	-54.8	37.3	38.5	6.1	-61.8	-73.2
5.9	29.6	-80.6	-14.6	-10.7	45.0	-55.8	37.7	38.6	6.0	-63.8	-73.7
6.0	29.5	-75.8	-15.2	-10.3	45.4	-55.7	37.8	38.6	5.9	-62.1	-73.0
6.1	29.4	-72.3	-15.6	-10.1	45.6	-56.1	37.8	38.6	5.8	-63.2	-71.9
6.2	29.3	-72.9	-16.0	-10.1	45.7	-56.2	37.9	38.6	5.7	-65.3	-71.7
6.3	29.3	-70.6	-16.6	-10.2	45.6	-56.2	38.0	38.8	5.6	-65.9	-72.4
6.4	29.3	-70.3	-17.5	-10.4	45.5	-55.9	38.2	38.9	5.6	-64.1	-72.1
6.5	29.3	-70.9	-18.8	-10.7	45.3	-55.4	38.3	38.9	5.5	-63.6	-69.5
6.6	29.4	-72.9	-20.6	-11.2	44.9	-54.7	38.2	38.9	5.5	-64.2	-68.7
6.7	29.5	-73.7	-23.1	-11.8	44.6	-54.2	38.1	38.8	5.5	-63.9	-68.2
6.8	29.5	-77.1	-25.9	-12.8	44.2	-53.4	37.9	38.6	5.5	-62.0	-68.1
6.9	29.5	-84.9	-26.5	-13.9	44.1	-53.4	37.9	38.5	5.5	-60.7	-67.4
7.0	29.5	-79.0	-24.0	-15.3	44.0	-53.3	37.9	38.3	5.5	-61.3	-66.8
7.1	29.4	-73.5	-21.3	-16.7	43.9	-53.2	37.9	38.0	5.6	-62.7	-67.2
7.2	29.3	-66.9	-19.6	-17.1	44.1	-53.8	37.7	37.7	5.7	-62.1	-67.3
7.3	29.1	-64.8	-18.6	-15.1	44.4	-54.3	37.6	37.4	5.8	-63.1	-67.6
7.4	28.8	-63.2	-18.4	-12.3	44.8	-55.1	37.3	37.1	6.0	-63.4	-69.6
7.5	28.3	-62.7	-19.8	-9.9	45.5	-56.6	37.0	36.8	6.2	-62.1	-69.2
7.6	27.5	-63.4	-24.2	-7.9	46.2	-57.8	36.5	36.4	6.4	-60.0	-66.1
7.7	26.5	-65.4	-36.8	-6.5	47.0	-59.3	35.8	35.8	6.7	-58.7	-64.7
7.8	25.2	-66.7	-21.9	-5.5	47.3	-59.7	35.1	35.3	7.0	-58.5	-66.0
7.9	23.7	-62.1	-15.5	-4.8	46.9	-59.0	34.6	34.9	7.3	-61.2	-70.0
8.0	21.9	-58.2	-11.8	-4.4	46.0	-57.8	34.1	34.5	7.5	-61.6	-75.4
8.1	20.0	-56.8	-9.3	-4.1	45.0	-55.9	33.6	34.0	7.7	-62.7	-69.1

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TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1750\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	IP-3 Output	IM3 Output	1dB Comp. Output	P _{SAT} Output	Noise Figure	2nd Harmonics	3rd Harmonics
(GHz)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBc)	(dBm)	(dBm)	(dB)	(dBc)	(dBc)
4.6	8.2	-68.0	-5.1	-3.8	29.0	-23.0	21.0	22.9	9.1	-25.4	-77.4
4.7	11.2	-65.2	-5.4	-4.1	33.3	-31.7	23.5	25.5	8.7	-34.5	-76.3
4.8	14.2	-63.5	-5.6	-4.5	36.5	-38.2	25.4	27.9	8.3	-45.0	-75.7
4.9	17.2	-62.3	-6.0	-5.1	38.2	-41.7	26.7	30.5	7.8	-56.5	-75.1
5.0	20.0	-61.8	-6.4	-5.9	39.2	-43.7	27.8	32.4	7.5	-68.9	-74.5
5.1	22.6	-61.5	-6.9	-7.1	39.8	-44.7	28.8	34.0	7.3	-62.3	-75.7
5.2	25.0	-61.4	-7.5	-8.8	40.5	-46.5	30.0	35.3	7.0	-59.3	-76.8
5.3	26.9	-61.9	-8.2	-11.2	41.1	-47.2	31.6	36.8	6.9	-57.5	-77.8
5.4	28.3	-63.3	-9.1	-14.3	41.7	-49.1	33.8	37.8	6.7	-58.5	-78.0
5.5	29.1	-65.4	-10.2	-16.5	42.5	-50.1	35.9	38.2	6.5	-59.0	-78.7
5.6	29.4	-68.9	-11.5	-15.9	43.2	-51.3	36.9	38.5	6.4	-60.0	-73.6
5.7	29.5	-73.9	-12.7	-14.1	43.9	-52.7	37.3	38.7	6.3	-62.7	-71.0
5.8	29.4	-82.7	-13.9	-12.7	44.7	-54.8	37.6	38.8	6.2	-68.2	-72.8
5.9	29.2	-80.7	-14.7	-11.7	45.1	-56.2	37.8	38.8	6.1	-72.8	-73.7
6.0	29.1	-75.0	-15.2	-11.1	45.4	-56.2	38.1	38.9	6.1	-67.9	-74.1
6.1	28.9	-71.9	-15.5	-10.6	45.7	-56.6	38.4	39.2	5.9	-67.7	-73.5
6.2	28.8	-70.6	-16.0	-10.4	45.7	-56.6	38.4	39.2	5.9	-68.7	-73.7
6.3	28.7	-70.2	-16.5	-10.3	45.6	-56.5	38.4	39.2	5.8	-67.3	-75.4
6.4	28.7	-70.1	-17.4	-10.3	45.5	-56.2	38.3	39.3	5.8	-64.8	-75.3
6.5	28.7	-71.1	-18.6	-10.4	45.2	-55.6	38.1	39.2	5.7	-63.3	-72.2
6.6	28.8	-71.1	-20.2	-10.6	44.8	-54.8	37.8	39.1	5.7	-63.9	-71.0
6.7	28.8	-72.8	-22.5	-10.9	44.5	-54.3	37.7	39.0	5.7	-63.3	-70.0
6.8	28.8	-74.8	-25.1	-11.5	44.1	-53.4	37.6	38.8	5.7	-60.6	-69.5
6.9	28.8	-75.7	-26.3	-12.2	44.0	-53.3	37.6	38.6	5.7	-61.7	-68.4
7.0	28.8	-72.9	-24.7	-13.2	43.9	-53.2	37.7	38.4	5.7	-59.1	-67.5
7.1	28.7	-69.4	-22.2	-14.2	43.8	-52.9	37.8	38.2	5.8	-61.6	-67.4
7.2	28.6	-66.9	-20.3	-14.6	44.0	-53.4	37.9	38.0	5.9	-61.9	-67.2
7.3	28.5	-64.9	-19.2	-13.9	44.3	-53.8	37.9	37.7	6.0	-62.7	-67.3
7.4	28.2	-63.6	-19.1	-12.1	44.7	-54.7	37.9	37.6	6.2	-62.1	-70.3
7.5	27.7	-63.6	-20.8	-10.1	45.4	-56.3	37.7	37.5	6.4	-62.7	-73.1
7.6	27.0	-63.4	-25.6	-8.2	46.0	-57.6	37.4	37.2	6.6	-61.1	-69.2
7.7	26.0	-64.4	-33.7	-6.7	46.8	-59.2	36.8	36.7	6.9	-60.6	-66.5
7.8	24.7	-66.7	-21.2	-5.7	47.3	-60.3	36.2	36.1	7.3	-57.6	-65.1
7.9	23.2	-65.1	-15.3	-4.9	47.3	-60.3	35.6	35.6	7.5	-59.6	-67.6
8.0	21.5	-62.9	-11.7	-4.4	46.8	-59.5	35.0	35.3	7.8	-60.6	-69.9
8.1	19.6	-59.4	-9.3	-4.1	46.0	-58.0	34.1	34.8	8.0	-63.1	-67.7

Typical Performance Data

Definitions:

Input Return Loss = S11 (dB)

Gain(Power Gain) = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1750\text{ mA}$ @ Temperature = -40°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	IP-3 Output	IM3 Output	1dB Comp. Output	P _{SAT} Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBc)	(dBm)	(dBm)	(dB)
4.6	9.3	-65.4	-4.6	-3.9	31.1	-27.9	21.5	23.5	7.7
4.7	12.5	-63.4	-4.8	-4.2	35.1	-36.0	23.5	26.8	7.4
4.8	15.5	-62.2	-5.0	-4.6	37.7	-41.2	24.8	29.6	7.0
4.9	18.5	-61.2	-5.3	-5.1	39.2	-44.2	25.5	32.1	6.6
5.0	21.4	-60.6	-5.7	-5.9	40.2	-45.9	26.1	34.0	6.3
5.1	24.2	-60.5	-6.1	-6.9	40.7	-46.8	26.5	35.4	6.1
5.2	26.6	-60.4	-6.7	-8.4	41.3	-48.4	27.1	36.7	5.9
5.3	28.7	-61.0	-7.3	-10.4	41.8	-48.8	28.2	37.8	5.7
5.4	30.2	-61.9	-8.2	-12.7	42.4	-50.8	29.8	38.3	5.6
5.5	31.1	-63.8	-9.4	-14.1	43.2	-51.3	33.7	38.5	5.4
5.6	31.6	-68.1	-10.7	-13.8	43.8	-52.2	37.6	38.6	5.4
5.7	31.6	-72.4	-12.3	-12.9	44.5	-53.5	38.2	38.8	5.3
5.8	31.5	-79.7	-13.9	-11.9	45.2	-55.5	38.5	39.0	5.2
5.9	31.3	-85.1	-15.1	-11.3	45.6	-57.3	38.8	39.1	5.1
6.0	31.1	-77.6	-15.9	-10.8	45.9	-57.0	38.9	39.1	5.0
6.1	31.0	-74.6	-16.4	-10.6	46.2	-57.3	39.3	39.6	4.9
6.2	30.9	-72.7	-16.8	-10.5	46.2	-57.3	39.5	39.7	4.8
6.3	30.8	-72.8	-17.3	-10.6	46.2	-57.3	39.7	39.8	4.8
6.4	30.8	-71.2	-18.1	-10.6	46.1	-57.1	39.8	39.9	4.7
6.5	30.8	-73.1	-19.3	-10.8	45.9	-56.7	39.7	39.8	4.6
6.6	30.9	-73.5	-21.1	-11.1	45.6	-56.0	39.5	39.6	4.6
6.7	31.0	-74.1	-23.4	-11.6	45.4	-55.5	39.2	39.4	4.6
6.8	31.0	-75.3	-26.1	-12.3	45.0	-54.5	39.0	39.2	4.6
6.9	31.1	-79.5	-26.2	-13.1	45.0	-54.8	39.0	39.2	4.6
7.0	31.1	-79.3	-23.2	-14.1	45.0	-55.0	38.8	38.9	4.6
7.1	31.0	-73.1	-20.3	-15.3	44.9	-54.7	38.6	38.7	4.6
7.2	30.9	-66.1	-18.4	-16.4	45.1	-55.1	38.5	38.5	4.7
7.3	30.8	-64.4	-17.1	-15.4	45.4	-55.6	38.4	38.3	4.8
7.4	30.7	-62.7	-16.5	-13.0	45.8	-56.4	38.2	38.2	4.9
7.5	30.4	-62.5	-17.0	-10.5	46.6	-58.2	38.0	38.1	5.1
7.6	29.8	-63.3	-19.5	-8.3	47.3	-59.8	37.6	37.7	5.3
7.7	29.0	-65.1	-26.0	-6.7	48.2	-61.7	37.2	37.1	5.6
7.8	27.8	-67.4	-26.4	-5.6	48.8	-63.0	36.6	36.5	5.9
7.9	26.3	-63.2	-17.1	-4.8	48.9	-63.2	36.0	35.9	6.1
8.0	24.5	-59.4	-12.6	-4.4	48.3	-62.6	35.5	35.6	6.3
8.1	22.6	-57.6	-9.7	-4.1	47.5	-61.1	35.0	35.2	6.5

Typical Performance Data

Definitions:

Input Return Loss = S11 (dB)

Gain(Power Gain) = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1750\text{ mA}$ @ Temperature = $+95^{\circ}\text{C}$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	IP-3 Output	IM3 Output	1dB Comp. Output	P _{SAT} Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBc)	(dBm)	(dBm)	(dB)
4.6	6.6	-65.1	-5.4	-4.0	27.7	-21.8	20.2	22.0	10.4
4.7	9.6	-63.3	-5.6	-4.3	31.3	-28.3	22.1	24.7	10.0
4.8	12.6	-62.1	-5.9	-4.8	34.8	-35.4	23.5	27.3	9.6
4.9	15.6	-61.1	-6.2	-5.5	36.7	-39.2	24.7	29.9	9.1
5.0	18.3	-60.8	-6.6	-6.4	37.8	-41.4	25.6	32.0	8.7
5.1	20.9	-61.0	-7.1	-7.8	38.6	-42.7	26.2	33.8	8.4
5.2	23.1	-60.8	-7.7	-9.7	39.4	-44.6	26.9	35.1	8.1
5.3	24.9	-62.0	-8.4	-12.3	40.0	-45.4	28.1	36.6	8.0
5.4	26.1	-63.0	-9.3	-14.8	40.7	-47.3	30.1	37.6	7.8
5.5	26.8	-65.2	-10.3	-15.6	41.4	-48.3	33.2	38.0	7.6
5.6	27.1	-68.6	-11.3	-14.6	42.1	-49.4	35.2	38.2	7.5
5.7	27.2	-73.3	-12.3	-13.2	42.6	-50.6	36.1	38.3	7.4
5.8	27.1	-78.0	-13.1	-12.2	43.2	-52.2	36.4	38.4	7.3
5.9	27.0	-80.8	-13.7	-11.5	43.6	-53.2	37.0	38.5	7.2
6.0	26.8	-75.2	-14.1	-11.0	43.8	-53.1	37.4	38.6	7.2
6.1	26.7	-72.0	-14.6	-10.7	44.0	-53.3	37.5	38.6	7.0
6.2	26.6	-71.2	-15.2	-10.5	44.0	-53.3	37.0	38.5	7.0
6.3	26.6	-71.0	-16.0	-10.5	43.9	-53.2	36.3	38.4	6.9
6.4	26.5	-70.3	-17.0	-10.5	43.8	-52.8	35.8	38.4	6.8
6.5	26.5	-70.7	-18.5	-10.5	43.5	-52.3	35.9	38.5	6.8
6.6	26.5	-72.5	-20.5	-10.8	43.2	-51.6	36.1	38.4	6.8
6.7	26.5	-75.5	-23.2	-11.1	42.9	-51.1	35.9	38.2	6.8
6.8	26.5	-78.7	-26.1	-11.6	42.6	-50.3	35.5	37.9	6.8
6.9	26.5	-85.2	-27.2	-12.2	42.6	-50.4	35.5	37.7	6.8
7.0	26.4	-74.7	-25.4	-13.2	42.5	-50.2	36.0	37.6	6.9
7.1	26.3	-71.3	-23.0	-14.1	42.4	-50.1	36.7	37.5	7.0
7.2	26.2	-66.4	-21.6	-14.5	42.7	-50.7	36.9	37.4	7.1
7.3	26.0	-64.7	-21.1	-13.8	42.9	-51.2	37.0	37.3	7.3
7.4	25.6	-63.3	-21.6	-12.1	43.3	-51.9	37.0	37.4	7.5
7.5	25.1	-62.7	-23.8	-10.1	43.9	-53.2	36.9	37.3	7.7
7.6	24.3	-63.0	-27.3	-8.3	44.4	-54.3	36.7	36.9	8.0
7.7	23.2	-64.2	-23.7	-7.0	44.9	-55.4	36.2	36.4	8.3
7.8	21.9	-64.0	-17.7	-6.0	45.2	-56.0	35.6	35.9	8.7
7.9	20.4	-60.7	-13.7	-5.3	45.0	-55.8	35.1	35.4	9.0
8.0	18.7	-57.6	-10.9	-4.8	44.6	-55.1	34.3	34.8	9.2
8.1	16.9	-56.5	-8.9	-4.4	43.9	-53.9	32.6	33.9	9.5

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1400\text{ mA}$, 1750 mA , 2100 mA , @ Temperature = $+25^\circ\text{C}$

FREQ	Gain @ 1400 mA	Gain @ 1750 mA	Gain @ 2100 mA	1dB Comp. Output @ 1400 mA	1dB Comp. Output @ 1750 mA	1dB Comp. Output @ 2100 mA	P_{SAT} Output @ 1400 mA	P_{SAT} Output @ 1750 mA	P_{SAT} Output @ 2100 mA
(GHz)	(dB)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
4.6	7.5	8.2	8.9	18.3	21.0	22.6	21.5	22.9	24.1
4.7	10.6	11.2	12.0	20.0	23.5	24.7	24.2	25.5	26.9
4.8	13.7	14.2	15.0	21.2	25.4	26.1	26.8	27.9	29.5
4.9	16.6	17.2	17.9	22.3	26.7	27.1	29.8	30.5	31.8
5.0	19.5	20.0	20.7	23.2	27.8	27.7	32.1	32.4	33.7
5.1	22.2	22.6	23.3	23.8	28.8	28.1	33.8	34.0	35.1
5.2	24.5	25.0	25.6	24.5	30.0	28.7	35.4	35.3	36.4
5.3	26.5	26.9	27.4	25.7	31.6	29.9	37.0	36.8	37.6
5.4	27.9	28.3	28.7	27.3	33.8	32.0	38.0	37.8	38.1
5.5	28.7	29.1	29.5	30.1	35.9	35.4	38.3	38.2	38.3
5.6	29.1	29.4	29.8	34.4	36.9	37.4	38.4	38.5	38.5
5.7	29.2	29.5	29.8	36.4	37.3	38.0	38.6	38.7	38.6
5.8	29.0	29.4	29.8	37.1	37.6	38.3	38.8	38.8	38.7
5.9	28.9	29.2	29.6	37.8	37.8	38.5	38.9	38.8	38.9
6.0	28.7	29.1	29.5	38.1	38.1	38.6	38.9	38.9	38.9
6.1	28.6	28.9	29.4	38.1	38.4	38.8	39.2	39.2	39.2
6.2	28.5	28.8	29.3	38.1	38.4	38.9	39.2	39.2	39.3
6.3	28.4	28.7	29.2	37.9	38.4	39.0	39.4	39.2	39.4
6.4	28.4	28.7	29.2	37.8	38.3	39.0	39.5	39.3	39.5
6.5	28.4	28.7	29.2	38.0	38.1	39.1	39.6	39.2	39.5
6.6	28.4	28.8	29.3	38.0	37.8	39.0	39.4	39.1	39.3
6.7	28.5	28.8	29.3	37.8	37.7	38.7	39.1	39.0	39.1
6.8	28.5	28.8	29.3	37.4	37.6	38.5	38.9	38.8	38.8
6.9	28.6	28.8	29.3	37.4	37.6	38.4	38.8	38.6	38.7
7.0	28.6	28.8	29.2	37.7	37.7	38.3	38.6	38.4	38.5
7.1	28.5	28.7	29.1	38.0	37.8	38.3	38.4	38.2	38.4
7.2	28.4	28.6	28.9	38.0	37.9	38.2	38.2	38.0	38.2
7.3	28.3	28.5	28.8	38.0	37.9	38.1	38.0	37.7	38.1
7.4	28.1	28.2	28.5	37.9	37.9	37.9	37.9	37.6	38.0
7.5	27.6	27.7	28.0	37.7	37.7	37.7	37.7	37.5	37.8
7.6	27.0	27.0	27.3	37.3	37.4	37.3	37.4	37.2	37.3
7.7	26.0	26.0	26.3	36.7	36.8	36.7	36.8	36.7	36.8
7.8	24.8	24.7	25.0	36.0	36.2	36.1	36.2	36.1	36.1
7.9	23.3	23.2	23.5	35.5	35.6	35.6	35.7	35.6	35.7
8.0	21.5	21.5	21.8	35.1	35.0	35.2	35.4	35.3	35.3
8.1	19.6	19.6	19.9	34.4	34.1	34.6	34.9	34.8	34.9

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1400\text{ mA}$, 1750 mA , 2100 mA , @ Temperature = $+25^{\circ}\text{C}$

FREQ	IP-3 @ 1400 mA	IP-3 @ 1750 mA	IP-3 @ 2100 mA	IM3 @ 1400 mA	IM3 @ 1750 mA	IM3 @ 2100 mA	Noise Figure @ 1400 mA	Noise Figure @ 1750 mA	Noise Figure @ 2100 mA
(GHz)	(dBm)	(dBm)	(dBm)	(dBc)	(dBc)	(dBc)	(dB)	(dB)	(dB)
4.6	26.7	29.0	33.1	-20.3	-23.0	-30.5	9.1	9.1	9.3
4.7	28.9	33.3	36.8	-22.4	-31.7	-38.1	8.7	8.7	8.9
4.8	33.0	36.5	39.1	-30.9	-38.2	-43.0	8.3	8.3	8.5
4.9	35.3	38.2	40.4	-35.7	-41.7	-45.8	7.8	7.8	8.0
5.0	36.6	39.2	41.1	-38.4	-43.7	-47.3	7.4	7.5	7.7
5.1	37.4	39.8	41.5	-39.8	-44.7	-48.0	7.1	7.3	7.4
5.2	38.3	40.5	42.0	-42.0	-46.5	-49.5	6.8	7.0	7.2
5.3	39.0	41.1	42.5	-42.9	-47.2	-50.1	6.6	6.9	7.0
5.4	39.8	41.7	43.0	-45.2	-49.1	-51.9	6.5	6.7	6.8
5.5	40.7	42.5	43.8	-46.3	-50.1	-52.7	6.3	6.5	6.6
5.6	41.5	43.2	44.4	-47.8	-51.3	-54.0	6.2	6.4	6.5
5.7	42.2	43.9	45.1	-49.4	-52.7	-55.4	6.1	6.3	6.4
5.8	43.0	44.7	45.8	-51.7	-54.8	-57.4	6.0	6.2	6.3
5.9	43.5	45.1	46.1	-53.2	-56.2	-58.8	5.9	6.1	6.2
6.0	43.8	45.4	46.5	-53.2	-56.2	-58.9	5.8	6.1	6.1
6.1	44.0	45.7	46.7	-53.6	-56.6	-59.3	5.7	5.9	6.0
6.2	43.9	45.7	46.7	-53.4	-56.6	-59.3	5.7	5.9	6.0
6.3	43.8	45.6	46.7	-53.2	-56.5	-59.2	5.6	5.8	5.9
6.4	43.7	45.5	46.5	-52.8	-56.2	-58.8	5.5	5.8	5.8
6.5	43.3	45.2	46.3	-52.0	-55.6	-58.1	5.5	5.7	5.8
6.6	42.9	44.8	45.9	-51.1	-54.8	-57.3	5.5	5.7	5.8
6.7	42.6	44.5	45.7	-50.5	-54.3	-56.8	5.5	5.7	5.8
6.8	42.1	44.1	45.3	-49.4	-53.4	-55.9	5.5	5.7	5.8
6.9	42.1	44.0	45.2	-49.4	-53.3	-55.8	5.5	5.7	5.8
7.0	42.0	43.9	45.1	-49.1	-53.2	-55.5	5.5	5.7	5.9
7.1	41.9	43.8	45.0	-48.7	-52.9	-55.3	5.6	5.8	5.9
7.2	42.2	44.0	45.1	-49.3	-53.4	-55.7	5.7	5.9	6.0
7.3	42.5	44.3	45.3	-50.1	-53.8	-56.1	5.8	6.0	6.1
7.4	43.1	44.7	45.6	-51.3	-54.7	-56.7	5.9	6.2	6.3
7.5	44.1	45.4	46.2	-53.4	-56.3	-57.9	6.1	6.4	6.5
7.6	44.9	46.0	46.6	-55.2	-57.6	-59.0	6.3	6.6	6.7
7.7	45.9	46.8	47.2	-57.5	-59.2	-60.3	6.6	6.9	7.0
7.8	46.5	47.3	47.5	-58.9	-60.3	-61.1	6.9	7.3	7.3
7.9	46.4	47.3	47.5	-58.9	-60.3	-61.3	7.2	7.5	7.6
8.0	45.7	46.8	47.0	-57.8	-59.5	-60.8	7.3	7.8	7.7
8.1	44.9	46.0	46.3	-56.0	-58.0	-59.3	7.6	8.0	8.0

*Typical Performance Data*TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1750\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

FREQ	P_{DISS} (@ P_{SAT})	PAE (@ P_{SAT})
(GHz)	(W)	(%)
4.6	14.81	0.86
4.7	15.26	1.84
4.8	16.02	3.32
4.9	17.56	5.57
5.0	18.66	8.30
5.1	19.02	11.55
5.2	19.03	15.39
5.3	18.22	21.16
5.4	17.54	25.67
5.5	16.58	28.80
5.6	15.54	31.47
5.7	14.97	33.09
5.8	15.10	33.26
5.9	15.50	33.04
6.0	15.92	32.76
6.1	15.77	34.57
6.2	16.46	33.61
6.3	17.32	32.61
6.4	18.40	31.54
6.5	19.66	30.04
6.6	20.68	28.57
6.7	21.41	27.34
6.8	21.76	26.24
6.9	21.69	25.43
7.0	21.13	24.93
7.1	20.39	24.75
7.2	19.45	24.63
7.3	18.52	24.54
7.4	17.47	24.90
7.5	17.14	24.69
7.6	15.73	25.25
7.7	14.05	25.51
7.8	12.97	24.22
7.9	13.47	21.47
8.0	14.30	18.97
8.1	14.33	17.19

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1750\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

FREQ	P _{OUT}	2nd Harmonics	FREQ	P _{OUT}	2nd Harmonics	FREQ	P _{OUT}	2nd Harmonics
(GHz)	(dBm)	(dBc)	(GHz)	(dBm)	(dBc)	(GHz)	(dBm)	(dBc)
5.6	14.0	-57.6	6.4	14.0	-57.5	7.1	14.0	-46.9
5.6	15.0	-57.7	6.4	15.0	-58.0	7.1	15.0	-47.7
5.6	16.0	-59.2	6.4	16.0	-58.7	7.1	16.0	-48.4
5.6	17.0	-61.0	6.4	17.0	-60.4	7.1	17.0	-50.2
5.6	18.0	-61.4	6.4	18.0	-61.5	7.1	18.0	-50.9
5.6	19.0	-62.2	6.4	19.0	-62.3	7.1	19.0	-52.0
5.6	20.0	-63.3	6.4	20.0	-63.0	7.1	20.0	-52.9
5.6	21.0	-64.0	6.4	21.0	-64.3	7.1	21.0	-53.9
5.6	22.0	-65.1	6.4	22.0	-66.0	7.1	22.0	-55.1
5.6	23.0	-65.7	6.4	23.0	-66.4	7.1	23.0	-55.7
5.6	24.0	-66.4	6.4	24.0	-66.8	7.1	24.0	-57.1
5.6	25.0	-69.3	6.4	25.0	-67.5	7.1	25.0	-57.5
5.6	26.0	-68.9	6.4	26.0	-68.0	7.1	26.0	-58.8
5.6	27.0	-68.4	6.4	27.0	-69.8	7.1	27.0	-60.4
5.6	28.0	-64.9	6.4	28.0	-70.1	7.1	28.0	-60.4
5.6	29.0	-63.6	6.4	29.0	-70.2	7.1	29.0	-61.9
5.6	30.0	-62.8	6.4	30.0	-73.4	7.1	30.0	-61.2
5.6	31.0	-61.3	6.4	31.0	-71.0	7.1	31.0	-62.5
5.6	32.0	-60.6	6.4	32.0	-69.3	7.1	32.0	-62.5
5.6	33.0	-60.3	6.4	33.0	-68.7	7.1	33.0	-62.7
5.6	34.0	-59.9	6.4	34.0	-68.2	7.1	34.0	-62.8
5.6	35.0	-59.6	6.4	35.0	-68.3	7.1	35.0	-63.7
5.6	36.0	-59.3	6.4	36.0	-67.1	7.1	36.0	-61.2
5.6	37.0	-59.6	6.4	37.0	-66.7	7.1	37.0	-60.3
5.6	38.0	-59.4	6.4	38.0	-66.2	7.1	38.0	-61.9
5.6	39.0	-59.9	6.4	39.0	-65.1	7.1	39.0	-60.5
6.0	14.0	-55.6	6.8	14.0	-47.2			
6.0	15.0	-57.1	6.8	15.0	-48.0			
6.0	16.0	-58.3	6.8	16.0	-48.7			
6.0	17.0	-58.3	6.8	17.0	-49.7			
6.0	18.0	-59.8	6.8	18.0	-50.4			
6.0	19.0	-61.1	6.8	19.0	-52.2			
6.0	20.0	-61.8	6.8	20.0	-53.1			
6.0	21.0	-62.4	6.8	21.0	-53.9			
6.0	22.0	-64.8	6.8	22.0	-55.1			
6.0	23.0	-65.2	6.8	23.0	-55.7			
6.0	24.0	-65.7	6.8	24.0	-56.6			
6.0	25.0	-66.9	6.8	25.0	-57.8			
6.0	26.0	-66.1	6.8	26.0	-59.2			
6.0	27.0	-67.2	6.8	27.0	-60.3			
6.0	28.0	-69.2	6.8	28.0	-60.4			
6.0	29.0	-69.9	6.8	29.0	-61.9			
6.0	30.0	-70.9	6.8	30.0	-62.3			
6.0	31.0	-66.9	6.8	31.0	-64.4			
6.0	32.0	-67.1	6.8	32.0	-62.9			
6.0	33.0	-68.6	6.8	33.0	-64.0			
6.0	34.0	-67.4	6.8	34.0	-66.0			
6.0	35.0	-67.8	6.8	35.0	-64.2			
6.0	36.0	-66.9	6.8	36.0	-63.1			
6.0	37.0	-73.5	6.8	37.0	-61.7			
6.0	38.0	-76.1	6.8	38.0	-61.3			
6.0	39.0	-65.8	6.8	39.0	-61.4			

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1750\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

FREQ	P _{OUT}	3rd Harmonics	FREQ	P _{OUT}	3rd Harmonics	FREQ	P _{OUT}	3rd Harmonics
(GHz)	(dBm)	(dBc)	(GHz)	(dBm)	(dBc)	(GHz)	(dBm)	(dBc)
5.6	14.0	-90.4	6.4	14.0	-78.9	7.1	14.0	-78.2
5.6	15.0	-90.9	6.4	15.0	-80.9	7.1	15.0	-79.8
5.6	16.0	-91.9	6.4	16.0	-80.5	7.1	16.0	-80.3
5.6	17.0	-94.2	6.4	17.0	-82.2	7.1	17.0	-80.4
5.6	18.0	-95.9	6.4	18.0	-84.8	7.1	18.0	-81.8
5.6	19.0	-94.3	6.4	19.0	-85.4	7.1	19.0	-84.3
5.6	20.0	-95.4	6.4	20.0	-86.5	7.1	20.0	-83.2
5.6	21.0	-95.1	6.4	21.0	-86.5	7.1	21.0	-85.2
5.6	22.0	-94.8	6.4	22.0	-87.1	7.1	22.0	-84.7
5.6	23.0	-94.8	6.4	23.0	-88.3	7.1	23.0	-90.3
5.6	24.0	-92.6	6.4	24.0	-88.3	7.1	24.0	-87.1
5.6	25.0	-89.2	6.4	25.0	-86.6	7.1	25.0	-87.1
5.6	26.0	-86.7	6.4	26.0	-87.9	7.1	26.0	-85.7
5.6	27.0	-84.1	6.4	27.0	-83.8	7.1	27.0	-85.6
5.6	28.0	-79.0	6.4	28.0	-82.8	7.1	28.0	-82.5
5.6	29.0	-77.0	6.4	29.0	-80.4	7.1	29.0	-79.9
5.6	30.0	-75.3	6.4	30.0	-79.6	7.1	30.0	-77.9
5.6	31.0	-74.1	6.4	31.0	-79.3	7.1	31.0	-76.9
5.6	32.0	-73.1	6.4	32.0	-78.9	7.1	32.0	-75.7
5.6	33.0	-72.5	6.4	33.0	-78.6	7.1	33.0	-74.6
5.6	34.0	-71.9	6.4	34.0	-78.5	7.1	34.0	-73.6
5.6	35.0	-71.5	6.4	35.0	-78.6	7.1	35.0	-72.6
5.6	36.0	-70.5	6.4	36.0	-78.0	7.1	36.0	-70.7
5.6	37.0	-69.6	6.4	37.0	-77.4	7.1	37.0	-69.9
5.6	38.0	-68.8	6.4	38.0	-76.9	7.1	38.0	-69.3
5.6	39.0	-73.7	6.4	39.0	-77.1	7.1	39.0	-68.5
6.0	14.0	-86.9	6.8	14.0	-77.4			
6.0	15.0	-87.9	6.8	15.0	-77.9			
6.0	16.0	-91.0	6.8	16.0	-79.1			
6.0	17.0	-91.4	6.8	17.0	-81.1			
6.0	18.0	-96.3	6.8	18.0	-82.1			
6.0	19.0	-93.0	6.8	19.0	-83.0			
6.0	20.0	-95.4	6.8	20.0	-85.4			
6.0	21.0	-94.0	6.8	21.0	-84.9			
6.0	22.0	-95.5	6.8	22.0	-86.8			
6.0	23.0	-93.7	6.8	23.0	-86.1			
6.0	24.0	-92.4	6.8	24.0	-87.3			
6.0	25.0	-90.4	6.8	25.0	-88.8			
6.0	26.0	-86.3	6.8	26.0	-86.9			
6.0	27.0	-83.9	6.8	27.0	-83.4			
6.0	28.0	-81.7	6.8	28.0	-81.7			
6.0	29.0	-79.8	6.8	29.0	-80.3			
6.0	30.0	-78.5	6.8	30.0	-78.4			
6.0	31.0	-77.7	6.8	31.0	-78.0			
6.0	32.0	-77.2	6.8	32.0	-77.0			
6.0	33.0	-76.9	6.8	33.0	-76.3			
6.0	34.0	-76.7	6.8	34.0	-74.7			
6.0	35.0	-76.7	6.8	35.0	-73.8			
6.0	36.0	-76.7	6.8	36.0	-72.7			
6.0	37.0	-74.7	6.8	37.0	-72.0			
6.0	38.0	-73.3	6.8	38.0	-71.2			
6.0	39.0	-74.0	6.8	39.0	-71.0			

*Typical Performance Data*TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1750\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

Power	OIP3 @5.6 GHz	OIP3 @6.0 GHz	OIP3 @6.4 GHz	OIP3 @6.8 GHz	OIP3 @7.1 GHz
(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
14.0	42.7	44.9	45.2	44.3	44.2
17.0	42.5	44.7	45.0	44.1	44.0
20.0	42.0	44.3	44.5	43.4	43.4
23.0	41.0	43.3	43.2	41.4	41.3
26.0	39.7	41.9	41.9	40.6	40.2
29.0	41.5	41.9	42.0	40.9	40.7

*Typical Performance Data*TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1750\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

Power	IM3 @5.6 GHz	IM3 @6.0 GHz	IM3 @6.4 GHz	IM3 @6.8 GHz	IM3 @7.1 GHz
(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
14.0	-56.3	-61.2	-61.4	-59.5	-59.4
17.0	-49.9	-54.8	-55.2	-53.2	-53.2
20.0	-43.1	-48.0	-48.3	-46.1	-46.2
23.0	-35.0	-40.1	-39.6	-35.2	-35.1
26.0	-22.5	-30.4	-30.2	-26.6	-26.7
29.0	-19.6	-23.9	-24.3	-20.3	-19.7

MMIC Amplifier

PMA6-73-10W+

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1750\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

FREQ	P _{OUT}	Gain	FREQ	P _{OUT}	Gain	FREQ	P _{OUT}	Gain
(GHz)	(dBm)	(dB)	(GHz)	(dBm)	(dB)	(GHz)	(dBm)	(dB)
5.6	22.9	29.3	6.4	20.9	28.4	7.1	21.1	28.4
5.6	23.8	29.3	6.4	21.8	28.5	7.1	22.0	28.4
5.6	24.7	29.3	6.4	22.6	28.5	7.1	22.9	28.4
5.6	25.6	29.3	6.4	23.6	28.5	7.1	23.8	28.4
5.6	26.5	29.3	6.4	24.5	28.5	7.1	24.8	28.4
5.6	27.4	29.3	6.4	25.4	28.5	7.1	25.7	28.5
5.6	28.4	29.3	6.4	26.4	28.5	7.1	26.7	28.5
5.6	29.3	29.3	6.4	27.3	28.5	7.1	27.7	28.5
5.6	30.3	29.2	6.4	28.3	28.5	7.1	28.6	28.5
5.6	31.2	29.1	6.4	29.3	28.4	7.1	29.6	28.5
5.6	32.1	29.0	6.4	30.2	28.4	7.1	30.6	28.4
5.6	33.0	28.9	6.4	31.1	28.4	7.1	31.6	28.4
5.6	33.9	28.8	6.4	32.1	28.3	7.1	32.5	28.4
5.6	34.8	28.6	6.4	33.0	28.2	7.1	33.5	28.3
5.6	35.6	28.4	6.4	33.9	28.1	7.1	34.4	28.2
5.6	36.4	28.2	6.4	34.8	28.1	7.1	35.3	28.1
5.6	37.1	27.9	6.4	35.8	28.0	7.1	36.2	28.0
5.6	37.7	27.6	6.4	36.6	27.9	7.1	37.0	27.8
5.6	38.3	27.1	6.4	37.4	27.7	7.1	37.7	27.4
5.6	38.6	26.5	6.4	38.2	27.4	7.1	38.1	26.8
5.6	38.9	25.7	6.4	38.7	27.0	7.1	38.3	26.1
5.6	39.1	24.9	6.4	39.1	26.3	7.1	38.4	25.1
5.6	39.2	24.0	6.4	39.3	25.5	7.1	38.3	24.0
5.6	39.3	23.1	6.4	39.3	24.4	7.1	38.3	23.0
5.6	39.3	22.1	6.4	39.2	23.3	7.1	38.3	21.9
5.6	39.3	21.1	6.4	39.1	22.2	7.1	38.3	20.9
6.0	21.2	28.9	6.8	21.1	28.5			
6.0	22.0	28.9	6.8	22.0	28.5			
6.0	22.8	28.9	6.8	22.9	28.5			
6.0	23.7	28.9	6.8	23.8	28.5			
6.0	24.6	28.9	6.8	24.7	28.5			
6.0	25.6	28.9	6.8	25.7	28.5			
6.0	26.5	28.9	6.8	26.6	28.5			
6.0	27.5	28.9	6.8	27.6	28.5			
6.0	28.4	28.9	6.8	28.6	28.5			
6.0	29.4	28.9	6.8	29.5	28.5			
6.0	30.3	28.9	6.8	30.4	28.4			
6.0	31.3	28.8	6.8	31.3	28.3			
6.0	32.2	28.8	6.8	32.3	28.3			
6.0	33.1	28.7	6.8	33.2	28.2			
6.0	34.1	28.6	6.8	34.1	28.1			
6.0	35.0	28.5	6.8	35.0	28.0			
6.0	35.9	28.4	6.8	35.8	27.8			
6.0	36.8	28.3	6.8	36.6	27.6			
6.0	37.6	28.1	6.8	37.4	27.4			
6.0	38.3	27.9	6.8	38.0	27.0			
6.0	38.9	27.4	6.8	38.5	26.5			
6.0	39.2	26.7	6.8	38.8	25.8			
6.0	39.3	25.7	6.8	39.0	24.9			
6.0	39.2	24.6	6.8	39.0	23.9			
6.0	39.2	23.6	6.8	38.9	22.8			
6.0	39.2	22.7	6.8	38.8	21.7			

*Typical Performance Data*TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1750\text{ mA}$ @ Temperature = $+25^\circ\text{C}$

FREQ	P _{OUT}	Phase	FREQ	P _{OUT}	Phase	FREQ	P _{OUT}	Phase
(GHz)	(dBm)	(°)	(GHz)	(dBm)	(°)	(GHz)	(dBm)	(°)
5.6	22.9	0.0	6.4	20.9	0.0	7.1	21.1	0.0
5.6	23.8	0.0	6.4	21.8	0.0	7.1	22.0	0.1
5.6	24.7	0.0	6.4	22.6	0.0	7.1	22.9	0.2
5.6	25.6	0.1	6.4	23.6	0.1	7.1	23.8	0.4
5.6	26.5	0.1	6.4	24.5	0.1	7.1	24.8	0.5
5.6	27.4	0.3	6.4	25.4	0.2	7.1	25.7	0.7
5.6	28.4	0.5	6.4	26.4	0.4	7.1	26.7	0.9
5.6	29.3	0.9	6.4	27.3	0.6	7.1	27.7	1.2
5.6	30.3	1.4	6.4	28.3	0.9	7.1	28.6	1.7
5.6	31.2	2.3	6.4	29.3	1.5	7.1	29.6	2.6
5.6	32.1	3.7	6.4	30.2	2.4	7.1	30.6	4.1
5.6	33.0	5.6	6.4	31.1	3.6	7.1	31.6	5.9
5.6	33.9	8.1	6.4	32.1	5.0	7.1	32.5	8.1
5.6	34.8	11.1	6.4	33.0	6.8	7.1	33.5	10.6
5.6	35.6	14.5	6.4	33.9	8.9	7.1	34.4	13.4
5.6	36.4	18.0	6.4	34.8	11.3	7.1	35.3	16.4
5.6	37.1	21.4	6.4	35.8	13.7	7.1	36.2	19.4
5.6	37.7	24.5	6.4	36.6	16.0	7.1	37.0	22.4
5.6	38.3	27.4	6.4	37.4	18.2	7.1	37.7	25.9
5.6	38.6	29.9	6.4	38.2	20.4	7.1	38.1	30.1
5.6	38.9	32.4	6.4	38.7	22.7	7.1	38.3	34.9
5.6	39.1	35.2	6.4	39.1	25.7	7.1	38.4	41.3
5.6	39.2	36.9	6.4	39.3	29.2	7.1	38.3	48.2
5.6	39.3	38.0	6.4	39.3	33.8	7.1	38.3	54.1
5.6	39.3	38.5	6.4	39.2	38.0	7.1	38.3	59.3
5.6	39.3	38.9	6.4	39.1	41.2	7.1	38.3	63.6
6.0	21.2	0.0	6.8	21.1	0.0			
6.0	22.0	0.0	6.8	22.0	0.2			
6.0	22.8	0.0	6.8	22.9	0.3			
6.0	23.7	0.0	6.8	23.8	0.3			
6.0	24.6	0.1	6.8	24.7	0.4			
6.0	25.6	0.2	6.8	25.7	0.6			
6.0	26.5	0.3	6.8	26.6	0.8			
6.0	27.5	0.6	6.8	27.6	1.1			
6.0	28.4	0.9	6.8	28.6	1.7			
6.0	29.4	1.5	6.8	29.5	2.6			
6.0	30.3	2.3	6.8	30.4	3.9			
6.0	31.3	3.5	6.8	31.3	5.4			
6.0	32.2	5.1	6.8	32.3	7.3			
6.0	33.1	7.1	6.8	33.2	9.5			
6.0	34.1	9.4	6.8	34.1	11.9			
6.0	35.0	12.0	6.8	35.0	14.4			
6.0	35.9	14.6	6.8	35.8	17.0			
6.0	36.8	17.1	6.8	36.6	19.5			
6.0	37.6	19.3	6.8	37.4	22.0			
6.0	38.3	21.3	6.8	38.0	25.0			
6.0	38.9	23.3	6.8	38.5	28.4			
6.0	39.2	26.1	6.8	38.8	32.3			
6.0	39.3	29.4	6.8	39.0	37.1			
6.0	39.2	33.0	6.8	39.0	42.5			
6.0	39.2	35.0	6.8	38.9	47.3			
6.0	39.2	36.5	6.8	38.8	51.2			

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1750\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

Power	PAE (@5.6 GHz)	PAE (@6.0 GHz)	PAE (@6.4 GHz)	PAE (@6.8 GHz)	PAE (@7.1 GHz)
(dBm)	(%)	(%)	(%)	(%)	(%)
23.0	1.4	0.9	0.9	0.9	0.9
23.9	1.7	1.4	1.1	1.1	1.1
24.8	2.1	1.7	1.3	1.4	1.4
25.7	2.6	2.1	2.0	1.7	1.7
26.6	3.2	2.6	2.5	2.6	2.1
27.6	3.9	3.2	3.0	3.2	2.6
29.5	6.0	3.9	3.8	3.9	4.0
30.4	7.3	4.9	4.7	4.8	4.9
31.3	8.8	6.0	5.7	5.9	6.1
32.2	10.5	7.4	7.0	7.0	7.3
33.1	12.4	8.9	8.4	8.3	8.8
33.9	14.4	10.7	10.0	9.8	10.4
34.7	16.6	12.7	11.8	11.4	12.2
35.5	19.0	14.9	13.8	13.2	14.2
36.3	21.5	17.4	16.1	15.2	16.3
37.0	24.2	20.2	18.6	17.3	18.6
37.6	26.9	23.3	21.2	19.5	20.8
38.2	29.4	26.3	23.9	21.7	22.7
38.5	31.0	29.2	26.5	23.5	24.0
38.8	32.7	31.6	28.6	25.1	24.7
38.9	33.6	32.9	29.8	26.0	24.8
39.1	34.7	33.0	30.3	26.3	24.3
39.1	35.4	32.9	29.9	25.9	23.8
39.2	35.5	33.1	29.2	25.3	23.4
39.2	35.6	33.3	28.7	24.5	22.9

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1750\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

Power	P_{DISS} (@5.6 GHz)	P_{DISS} (@6.0 GHz)	P_{DISS} (@6.4 GHz)	P_{DISS} (@6.8 GHz)	P_{DISS} (@7.1 GHz)
(dBm)	(W)	(W)	(W)	(W)	(W)
23.0	13.7	13.6	13.7	13.9	13.9
23.9	13.7	13.6	13.8	13.9	13.9
24.8	13.6	13.6	13.7	13.9	13.9
25.7	13.6	13.6	13.7	13.9	13.9
26.6	13.6	13.6	13.7	13.9	13.9
27.6	13.5	13.5	13.7	13.9	13.9
28.5	13.5	13.5	13.7	13.9	13.9
29.5	13.4	13.5	13.7	13.9	13.9
30.4	13.4	13.5	13.7	14.1	14.0
31.3	13.5	13.5	13.8	14.3	14.2
32.2	13.6	13.6	14.0	14.7	14.6
33.1	13.9	13.8	14.3	15.1	15.0
34.7	14.4	14.0	14.6	15.6	15.5
35.5	14.7	14.3	15.6	16.2	16.1
36.3	15.0	14.7	16.1	17.6	16.7
37.6	15.3	15.4	16.6	18.3	17.4
38.2	15.3	15.7	17.2	19.0	18.6
39.1	14.6	15.9	17.7	20.2	19.4

*Typical Performance Data*TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1750\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

Power	PAE (@5.6 GHz)	PAE (@6.0 GHz)	PAE (@6.4 GHz)	PAE (@6.8 GHz)	PAE (@7.1 GHz)
(dBm)	(%)	(%)	(%)	(%)	(%)
-6.0	1.4	0.9	0.9	0.9	0.9
-5.0	1.7	1.4	1.1	1.1	1.1
-4.0	2.1	1.7	1.3	1.4	1.4
-3.0	2.6	2.1	2.0	1.7	1.7
-2.0	3.2	2.6	2.5	2.6	2.1
-1.0	3.9	3.2	3.0	3.2	2.6
0.0	6.0	3.9	3.8	3.9	4.0
1.0	7.3	4.9	4.7	4.8	4.9
2.0	8.8	6.0	5.7	5.9	6.1
3.0	10.5	7.4	7.0	7.0	7.3
4.0	12.4	8.9	8.4	8.3	8.8
5.0	14.4	10.7	10.0	9.8	10.4
6.0	16.6	12.7	11.8	11.4	12.2
7.0	19.0	14.9	13.8	13.2	14.2
8.0	21.5	17.4	16.1	15.2	16.3
9.0	24.2	20.2	18.6	17.3	18.6
10.0	26.9	23.3	21.2	19.5	20.8
11.0	29.4	26.3	23.9	21.7	22.7
12.0	31.0	29.2	26.5	23.5	24.0
13.0	32.7	31.6	28.6	25.1	24.7
14.0	33.6	32.9	29.8	26.0	24.8
15.0	34.7	33.0	30.3	26.3	24.3
16.0	35.4	32.9	29.9	25.9	23.8
17.0	35.5	33.1	29.2	25.3	23.4
18.0	35.6	33.3	28.7	24.5	22.9

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1750\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

Power	P_{DISS} (@5.6 GHz)	P_{DISS} (@6.0 GHz)	P_{DISS} (@6.4 GHz)	P_{DISS} (@6.8 GHz)	P_{DISS} (@7.1 GHz)
(dBm)	(W)	(W)	(W)	(W)	(W)
-6.6	13.7	13.6	13.7	13.9	13.9
-5.7	13.7	13.6	13.8	13.9	13.9
-4.8	13.6	13.6	13.7	13.9	13.9
-3.9	13.6	13.6	13.7	13.9	13.9
-2.9	13.6	13.6	13.7	13.9	13.9
-2.0	13.5	13.5	13.7	13.9	13.9
-1.0	13.5	13.5	13.7	13.9	13.9
-0.1	13.4	13.5	13.7	13.9	13.9
0.9	13.4	13.5	13.7	14.1	14.0
1.9	13.5	13.5	13.8	14.3	14.2
2.9	13.6	13.6	14.0	14.7	14.6
3.9	13.9	13.8	14.3	15.1	15.0
5.8	14.4	14.0	14.6	15.6	15.5
6.8	14.7	14.3	15.6	16.2	16.1
7.8	15.0	14.7	16.1	17.6	16.7
9.8	15.3	15.4	16.6	18.3	17.4
10.8	15.3	15.7	17.2	19.0	18.6
14.8	14.6	15.9	17.7	20.2	19.4

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1750\text{ mA}$ @ Temperature = $+25^\circ\text{C}$

P_{IN}	P_{OUT} @5.6 GHz	P_{OUT} @6.0 GHz	P_{OUT} @6.4 GHz	P_{OUT} @6.8 GHz	P_{OUT} @7.1 GHz	I_{DD} @5.6 GHz	I_{DD} @6.0 GHz	I_{DD} @6.4 GHz	I_{DD} @6.8 GHz	I_{DD} @7.1 GHz
(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(mA)	(mA)	(mA)	(mA)	(mA)
-6.6	22.9	21.2	20.9	21.1	21.1	1.7	1.7	1.7	1.7	1.8
-5.7	23.8	22.0	21.8	22.0	22.0	1.7	1.7	1.7	1.8	1.8
-4.8	24.7	22.8	22.6	22.9	22.9	1.7	1.7	1.7	1.8	1.8
-3.9	25.6	23.7	23.6	23.8	23.8	1.7	1.7	1.7	1.8	1.8
-2.9	26.5	24.6	24.5	24.7	24.8	1.7	1.7	1.8	1.8	1.8
-2.0	27.4	25.6	25.4	25.7	25.7	1.8	1.7	1.8	1.8	1.8
-1.0	28.4	26.5	26.4	26.6	26.7	1.8	1.8	1.8	1.8	1.8
-0.1	29.3	27.5	27.3	27.6	27.7	1.8	1.8	1.8	1.8	1.8
0.9	30.3	28.4	28.3	28.6	28.6	1.8	1.8	1.8	1.8	1.8
1.9	31.2	29.4	29.3	29.5	29.6	1.8	1.8	1.8	1.9	1.9
2.9	32.1	30.3	30.2	30.4	30.6	1.9	1.8	1.9	1.9	1.9
3.8	33.0	31.3	31.1	31.3	31.6	2.0	1.9	1.9	2.0	2.0
4.8	33.9	32.2	32.1	32.3	32.5	2.1	1.9	2.0	2.1	2.1
5.8	34.8	33.1	33.0	33.2	33.5	2.2	2.0	2.1	2.2	2.2
6.8	35.6	34.1	33.9	34.1	34.4	2.3	2.1	2.2	2.3	2.3
7.8	36.4	35.0	34.8	35.0	35.3	2.4	2.2	2.3	2.5	2.5
8.8	37.1	35.9	35.8	35.8	36.2	2.5	2.4	2.5	2.7	2.7
9.8	37.7	36.8	36.6	36.6	37.0	2.6	2.5	2.6	2.8	2.8
10.8	38.3	37.6	37.4	37.4	37.7	2.7	2.7	2.8	3.0	3.0
11.8	38.6	38.3	38.2	38.0	38.1	2.8	2.8	3.0	3.2	3.1
12.8	38.9	38.9	38.7	38.5	38.3	2.8	2.9	3.2	3.4	3.2
13.8	39.1	39.2	39.1	38.8	38.4	2.8	3.0	3.3	3.5	3.2
14.8	39.2	39.3	39.3	39.0	38.3	2.8	3.0	3.4	3.5	3.2
15.8	39.3	39.2	39.3	39.0	38.3	2.8	3.0	3.3	3.6	3.3
16.8	39.3	39.2	39.2	38.9	38.3	2.8	3.0	3.3	3.6	3.3
17.8	39.3	39.2	39.1	38.8	38.3	2.8	3.0	3.3	3.6	3.4

*Typical Performance Data*TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1750\text{ mA}$ @ Temperature = $+25^\circ\text{C}$

P_{OUT}	I_{DD} @5.6 GHz	I_{DD} @6.0 GHz	I_{DD} @6.4 GHz	I_{DD} @6.8 GHz	I_{DD} @7.1 GHz
(dBm)	(mA)	(mA)	(mA)	(mA)	(mA)
23.0	1.7	1.7	1.7	1.7	1.8
23.9	1.7	1.7	1.7	1.8	1.8
24.8	1.7	1.7	1.7	1.8	1.8
25.7	1.7	1.7	1.7	1.8	1.8
26.6	1.7	1.7	1.8	1.8	1.8
27.6	1.8	1.7	1.8	1.8	1.8
28.5	1.8	1.7	1.8	1.8	1.8
29.5	1.8	1.8	1.8	1.8	1.8
30.4	1.8	1.8	1.8	1.8	1.8
31.3	1.8	1.8	1.8	1.9	1.9
32.2	1.9	1.8	1.9	1.9	1.9
33.1	2.0	1.9	1.9	2.0	2.0
33.9	2.1	1.9	2.0	2.1	2.1
34.7	2.2	2.0	2.1	2.2	2.2
35.5	2.3	2.1	2.2	2.3	2.3
36.3	2.4	2.2	2.3	2.5	2.5
37.0	2.5	2.4	2.5	2.7	2.7
37.6	2.6	2.5	2.6	2.8	2.8
38.2	2.7	2.7	2.8	3.0	3.0
38.5	2.8	2.8	3.0	3.2	3.1
38.8	2.8	2.9	3.2	3.4	3.2
38.9	2.8	3.0	3.3	3.5	3.2
39.1	2.8	3.0	3.4	3.5	3.2
39.1	2.8	3.0	3.3	3.6	3.3
39.2	2.8	3.0	3.3	3.6	3.3
39.2	2.8	3.0	3.3	3.6	3.4

GAIN VARIATION VS FREQUENCY & TEMPERATURE
INPUT POWER = -15.00dBm, Vd = 8.00V

FREQ	-40°C to +95°C
GHz	°C
4.6	-0.021
4.7	-0.021
4.8	-0.021
4.9	-0.022
5.0	-0.023
5.1	-0.024
5.2	-0.026
5.3	-0.028
5.4	-0.031
5.5	-0.032
5.6	-0.033
5.7	-0.033
5.8	-0.032
5.9	-0.032
6.0	-0.032
6.1	-0.032
6.2	-0.031
6.3	-0.031
6.4	-0.032
6.5	-0.032
6.6	-0.032
6.7	-0.033
6.8	-0.033
6.9	-0.034
7.0	-0.034
7.1	-0.035
7.2	-0.035
7.3	-0.036
7.4	-0.038
7.5	-0.039
7.6	-0.041
7.7	-0.043
7.8	-0.044
7.9	-0.044
8.0	-0.043
8.1	-0.042