

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: $V_{DD} = +7\text{ V}$, $I_{DD} = 2000\text{ mA}$ @ 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)
6.1	26.2	-61.7	-11.2	-5.7	-	-	-	-	5.7	-	-
6.2	27.1	-62.7	-11.5	-6.8	-	-	-	-	5.7	-	-
6.3	27.8	-63.6	-11.8	-8.1	-	-	-	-	5.7	-	-
6.4	28.3	-65.3	-12.3	-9.8	-	-	-	-	5.6	-	-
6.5	28.6	-67.8	-12.9	-12.0	-	-	35.4	38.3	5.6	-	-
6.6	28.8	-70.4	-13.7	-14.7	-	-	35.7	38.4	5.6	-	-
6.7	28.9	-73.9	-14.5	-18.1	-	-	36.4	38.5	5.6	-	-
6.8	28.9	-79.2	-15.4	-22.2	-	-	37.0	38.6	5.6	-	-
6.9	29.0	-82.2	-16.3	-25.1	-	-	37.6	38.6	5.6	-	-
7.0	29.0	-77.5	-17.2	-23.4	45.3	-50.3	37.8	38.6	5.5	-65.6	-76.2
7.1	29.0	-73.9	-18.0	-20.5	45.8	-51.2	37.8	38.6	5.5	-65.4	-73.6
7.2	29.0	-73.5	-18.9	-18.3	46.2	-52.2	37.8	38.6	5.5	-64.7	-70.3
7.3	29.1	-73.0	-19.3	-16.7	46.5	-52.8	37.8	38.6	5.5	-64.1	-67.1
7.4	29.2	-74.3	-18.9	-15.4	46.6	-52.9	37.7	38.6	5.5	-63.0	-64.0
7.5	29.3	-74.7	-17.7	-14.5	46.6	-52.9	37.5	38.4	5.4	-63.1	-62.5
7.6	29.4	-72.9	-16.2	-13.7	46.8	-53.1	37.4	38.4	5.4	-62.8	-60.6
7.7	29.5	-73.8	-14.5	-12.9	47.1	-53.8	37.4	38.4	5.4	-62.9	-59.9
7.8	29.6	-74.7	-13.1	-12.4	46.8	-53.3	37.5	38.4	5.4	-61.6	-58.0
7.9	29.7	-74.4	-11.9	-12.1	46.9	-53.4	37.5	38.3	5.4	-61.9	-57.7
8.0	29.9	-72.6	-10.9	-11.8	46.5	-52.8	37.5	38.2	5.4	-61.5	-54.6
8.1	29.9	-69.7	-10.1	-11.6	46.5	-52.8	37.4	38.1	5.4	-61.6	-54.0
8.2	30.0	-68.4	-9.6	-11.5	46.7	-53.0	37.5	38.1	5.5	-61.6	-51.8
8.3	29.9	-67.4	-9.5	-11.8	46.5	-52.7	37.7	38.2	5.6	-61.3	-52.2
8.4	29.6	-67.3	-9.9	-12.4	46.7	-53.0	37.9	38.2	5.7	-60.3	-49.2
8.5	29.2	-68.3	-10.9	-13.5	46.3	-52.3	38.0	38.2	5.8	-59.4	-49.3
8.6	28.5	-70.0	-12.6	-15.3	46.3	-52.2	38.0	38.2	5.9	-57.6	-49.8
8.7	27.7	-77.1	-15.1	-17.8	-	-	38.0	38.2	6.1	-	-
8.8	26.6	-75.1	-17.3	-20.5	-	-	38.0	38.2	6.3	-	-
8.9	25.4	-72.5	-16.5	-20.8	-	-	37.8	38.1	6.6	-	-
9.0	24.0	-67.9	-13.6	-18.0	-	-	37.7	38.1	6.9	-	-
9.1	22.6	-64.4	-11.0	-15.0	-	-	-	-	7.3	-	-
9.2	21.0	-62.3	-8.9	-12.5	-	-	-	-	7.7	-	-
9.3	19.4	-60.7	-7.3	-10.5	-	-	-	-	8.2	-	-
9.4	17.7	-59.9	-6.1	-9.0	-	-	-	-	8.7	-	-
9.5	16.0	-59.8	-5.0	-7.7	-	-	-	-	9.3	-	-

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: $V_{DD} = +6\text{ V}$, $I_{DD} = 2000\text{ mA}$ @ 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)
6.1	26.5	-61.7	-11.4	-6.0	-	-	-	-	5.8	-	-
6.2	27.4	-63.0	-11.7	-7.0	-	-	-	-	5.8	-	-
6.3	28.1	-63.9	-12.0	-8.4	-	-	-	-	5.7	-	-
6.4	28.7	-64.9	-12.5	-10.1	-	-	-	-	5.7	-	-
6.5	29.0	-67.5	-13.1	-12.3	-	-	35.0	37.8	5.8	-	-
6.6	29.3	-69.7	-13.9	-14.8	-	-	35.3	37.9	5.7	-	-
6.7	29.4	-74.8	-14.7	-17.5	-	-	35.9	38.0	5.7	-	-
6.8	29.5	-83.3	-15.6	-19.4	-	-	36.3	38.0	5.7	-	-
6.9	29.6	-81.4	-16.4	-19.2	-	-	36.7	37.9	5.7	-	-
7.0	29.6	-76.9	-17.3	-17.6	44.8	-49.3	36.8	37.8	5.7	-46.4	-72.9
7.1	29.7	-74.3	-18.2	-15.9	45.4	-50.4	36.8	37.7	5.6	-47.2	-70.6
7.2	29.7	-72.3	-19.1	-14.6	45.7	-51.1	36.8	37.7	5.6	-46.6	-68.1
7.3	29.8	-73.7	-19.8	-13.5	45.9	-51.6	36.7	37.7	5.6	-46.0	-65.6
7.4	29.9	-73.4	-19.7	-12.6	46.1	-52.0	36.5	37.6	5.6	-45.8	-63.3
7.5	30.0	-74.3	-18.6	-11.9	46.1	-51.8	36.3	37.4	5.5	-44.7	-62.0
7.6	30.2	-73.8	-17.0	-11.3	46.2	-52.1	36.2	37.3	5.5	-46.4	-60.2
7.7	30.3	-74.1	-15.0	-10.8	46.5	-52.5	36.2	37.3	5.5	-45.2	-59.4
7.8	30.4	-74.5	-13.4	-10.4	46.3	-52.1	36.3	37.4	5.5	-44.9	-57.6
7.9	30.5	-73.1	-12.0	-10.2	46.3	-52.2	36.3	37.3	5.5	-44.6	-57.2
8.0	30.7	-71.6	-10.8	-9.9	46.0	-51.7	36.2	37.2	5.5	-44.3	-54.1
8.1	30.7	-68.8	-10.0	-9.7	46.0	-51.6	36.2	37.1	5.6	-44.7	-53.6
8.2	30.7	-67.4	-9.4	-9.7	46.1	-51.8	36.3	37.1	5.6	-44.7	-51.2
8.3	30.5	-67.1	-9.3	-10.0	46.0	-51.6	36.5	37.2	5.7	-43.9	-51.8
8.4	30.1	-66.8	-9.7	-10.5	46.1	-51.9	36.6	37.2	5.8	-43.0	-48.7
8.5	29.6	-68.3	-10.7	-11.5	45.8	-51.2	36.7	37.3	5.9	-41.8	-48.9
8.6	28.8	-71.7	-12.5	-12.9	45.8	-51.1	36.7	37.3	6.0	-40.1	-49.6
8.7	27.9	-78.5	-14.9	-14.6	-	-	36.7	37.3	6.2	-	-
8.8	26.7	-76.6	-17.0	-16.2	-	-	36.7	37.3	6.5	-	-
8.9	25.5	-70.8	-16.2	-16.6	-	-	36.6	37.3	6.7	-	-
9.0	24.1	-66.7	-13.5	-15.4	-	-	36.5	37.2	7.1	-	-
9.1	22.6	-63.4	-10.9	-13.4	-	-	-	-	7.4	-	-
9.2	21.0	-61.2	-8.9	-11.4	-	-	-	-	7.8	-	-
9.3	19.4	-59.7	-7.3	-9.7	-	-	-	-	8.3	-	-
9.4	17.6	-59.2	-6.0	-8.3	-	-	-	-	8.8	-	-
9.5	15.9	-59.2	-5.0	-7.2	-	-	-	-	9.4	-	-

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: $V_{DD} = +8\text{ V}$, $I_{DD} = 2000\text{ mA}$ @ 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)
6.1	25.7	-61.6	-11.7	-5.3	-	-	-	-	5.6	-	-
6.2	26.6	-62.8	-12.0	-6.2	-	-	-	-	5.6	-	-
6.3	27.3	-64.0	-12.4	-7.5	-	-	-	-	5.6	-	-
6.4	27.8	-65.6	-12.9	-9.0	-	-	-	-	5.6	-	-
6.5	28.1	-67.8	-13.5	-10.9	-	-	35.1	38.5	5.6	-	-
6.6	28.3	-70.1	-14.3	-13.3	-	-	35.5	38.5	5.6	-	-
6.7	28.4	-73.4	-15.2	-16.2	-	-	36.2	38.7	5.6	-	-
6.8	28.4	-74.7	-16.1	-20.1	-	-	36.9	38.9	5.6	-	-
6.9	28.4	-75.4	-17.0	-25.7	-	-	37.5	39.0	5.6	-	-
7.0	28.4	-74.5	-18.0	-33.5	45.4	-50.4	37.9	39.1	5.5	-64.8	-82.8
7.1	28.4	-73.4	-19.0	-30.6	46.0	-51.6	38.1	39.2	5.5	-64.9	-79.4
7.2	28.4	-72.5	-19.9	-25.0	46.4	-52.4	38.3	39.3	5.5	-64.1	-73.4
7.3	28.5	-73.0	-20.2	-21.9	46.7	-53.1	38.4	39.4	5.5	-62.8	-68.7
7.4	28.5	-73.7	-19.5	-19.7	46.8	-53.4	38.5	39.4	5.5	-62.9	-64.9
7.5	28.6	-74.8	-18.2	-18.2	46.9	-53.4	38.4	39.4	5.4	-62.5	-63.5
7.6	28.7	-75.5	-16.6	-16.9	47.0	-53.7	38.3	39.3	5.4	-62.4	-61.4
7.7	28.9	-76.5	-14.8	-15.8	47.3	-54.3	38.3	39.3	5.4	-61.9	-60.8
7.8	28.9	-79.4	-13.3	-15.0	47.1	-53.9	38.4	39.3	5.4	-61.5	-58.8
7.9	29.1	-79.1	-12.1	-14.4	47.2	-54.0	38.5	39.3	5.4	-60.2	-58.4
8.0	29.2	-75.6	-11.1	-13.8	46.8	-53.4	38.5	39.2	5.4	-60.4	-55.2
8.1	29.3	-71.6	-10.4	-13.4	46.9	-53.5	38.5	39.2	5.4	-60.7	-54.7
8.2	29.3	-69.4	-9.9	-13.3	47.0	-53.8	38.7	39.2	5.5	-60.5	-52.5
8.3	29.3	-68.1	-9.8	-13.4	46.9	-53.5	38.8	39.2	5.5	-60.3	-53.3
8.4	29.1	-67.6	-10.0	-13.9	47.0	-53.8	39.0	39.3	5.6	-59.5	-50.7
8.5	28.8	-67.9	-10.8	-15.0	46.7	-53.1	39.1	39.2	5.7	-58.5	-51.4
8.6	28.3	-69.8	-12.3	-16.9	46.7	-53.0	39.1	39.2	5.9	-57.0	-51.3
8.7	27.5	-74.0	-14.6	-20.3	-	-	39.1	39.1	6.1	-	-
8.8	26.5	-76.6	-16.8	-26.5	-	-	39.0	39.0	6.3	-	-
8.9	25.4	-74.0	-16.6	-29.3	-	-	38.9	39.0	6.6	-	-
9.0	24.1	-68.9	-14.1	-21.3	-	-	38.8	39.0	7.0	-	-
9.1	22.7	-65.1	-11.5	-16.9	-	-	-	-	7.4	-	-
9.2	21.3	-62.7	-9.3	-13.9	-	-	-	-	7.8	-	-
9.3	19.7	-61.2	-7.6	-11.7	-	-	-	-	8.3	-	-
9.4	18.1	-60.3	-6.3	-10.0	-	-	-	-	8.8	-	-
9.5	16.4	-59.9	-5.2	-8.6	-	-	-	-	9.4	-	-

Typical Performance Data

Definitions:

Input Return Loss = S11 (dB)

Gain (Power Gain) = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 2000\text{ mA}$ @ 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)	(dBm)	(dBm)	(dBm)	(dB)
6.1	27.1	-61.4	-11.5	-4.6	-	-	-	-	4.4
6.2	28.1	-61.8	-11.8	-5.4	-	-	-	-	4.4
6.3	28.9	-63.3	-12.1	-6.5	-	-	-	-	4.3
6.4	29.5	-64.4	-12.6	-7.9	-	-	-	-	4.3
6.5	29.8	-66.7	-13.4	-9.7	-	-	38.0	39.4	4.3
6.6	30.1	-69.2	-14.3	-12.0	-	-	38.2	39.4	4.3
6.7	30.2	-71.5	-15.3	-14.8	-	-	38.5	39.5	4.3
6.8	30.3	-74.8	-16.4	-18.5	-	-	38.9	39.5	4.3
6.9	30.3	-77.1	-17.7	-23.7	-	-	39.1	39.5	4.2
7.0	30.3	-76.0	-19.1	-31.7	46.2	-52.0	39.2	39.5	4.2
7.1	30.3	-74.6	-20.4	-31.9	46.8	-53.3	39.2	39.5	4.2
7.2	30.3	-72.1	-21.7	-24.7	47.2	-54.1	39.3	39.6	4.2
7.3	30.3	-71.7	-22.7	-21.5	47.6	-54.8	39.4	39.7	4.2
7.4	30.4	-72.0	-22.6	-19.5	47.8	-55.4	39.3	39.7	4.2
7.5	30.5	-72.1	-21.0	-18.1	47.8	-55.2	39.0	39.6	4.1
7.6	30.7	-72.6	-18.2	-16.9	48.0	-55.5	38.9	39.6	4.2
7.7	30.9	-74.6	-15.8	-15.8	48.3	-56.2	38.9	39.6	4.1
7.8	31.0	-77.2	-13.9	-14.9	48.1	-55.7	39.0	39.6	4.1
7.9	31.1	-78.1	-12.5	-14.3	48.0	-55.8	39.0	39.6	4.1
8.0	31.3	-77.0	-11.2	-13.8	47.6	-54.9	38.9	39.5	4.1
8.1	31.5	-73.2	-10.0	-13.3	47.7	-55.0	38.8	39.4	4.1
8.2	31.7	-69.8	-9.2	-13.0	47.8	-55.2	38.9	39.4	4.1
8.3	31.7	-68.4	-8.6	-13.0	47.6	-54.8	39.1	39.4	4.2
8.4	31.7	-67.8	-8.4	-13.4	47.8	-55.2	39.3	39.5	4.3
8.5	31.5	-67.6	-8.7	-14.3	47.4	-54.5	39.4	39.5	4.3
8.6	31.1	-68.4	-9.4	-16.0	47.4	-54.5	39.4	39.4	4.4
8.7	30.4	-70.8	-10.7	-18.8	-	-	39.4	39.3	4.6
8.8	29.5	-75.2	-12.3	-23.9	-	-	39.4	39.3	4.8
8.9	28.4	-81.0	-13.7	-28.6	-	-	39.4	39.3	5.0
9.0	27.1	-74.9	-13.7	-22.0	-	-	39.3	39.2	5.2
9.1	25.7	-67.5	-12.3	-17.5	-	-	-	-	5.6
9.2	24.2	-63.8	-10.3	-14.6	-	-	-	-	5.9
9.3	22.6	-61.3	-8.7	-12.4	-	-	-	-	6.4
9.4	21.0	-59.9	-7.2	-10.7	-	-	-	-	6.9
9.5	19.4	-59.3	-5.9	-9.3	-	-	-	-	7.4

*Typical Performance Data***Definitions:**

Input Return Loss = S11 (dB)

Gain (Power Gain) = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 2000\text{ mA}$ @ Temperature = +95°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)	(dBm)	(dBm)	(dBm)	(dB)
6.1	23.3	-62.3	-11.8	-5.8	-	-	-	-	6.6
6.2	24.1	-63.0	-12.0	-6.8	-	-	-	-	6.6
6.3	24.8	-64.2	-12.4	-8.1	-	-	-	-	6.5
6.4	25.2	-65.8	-12.9	-9.8	-	-	-	-	6.5
6.5	25.5	-68.3	-13.4	-11.8	-	-	33.8	37.3	6.5
6.6	25.7	-70.9	-14.1	-14.3	-	-	34.2	37.3	6.5
6.7	25.8	-74.2	-14.8	-17.4	-	-	34.7	37.5	6.5
6.8	25.8	-77.8	-15.6	-21.5	-	-	35.2	37.8	6.5
6.9	25.8	-77.5	-16.4	-27.8	-	-	35.7	38.0	6.5
7.0	25.8	-74.6	-17.1	-35.6	44.7	-49.0	36.0	38.2	6.5
7.1	25.8	-75.3	-17.9	-29.8	45.2	-50.0	36.1	38.3	6.5
7.2	25.8	-72.6	-18.5	-24.7	45.5	-50.6	36.1	38.4	6.5
7.3	25.9	-73.3	-18.7	-21.8	45.8	-51.2	36.2	38.5	6.5
7.4	25.9	-73.2	-18.4	-19.9	45.9	-51.4	36.5	38.5	6.5
7.5	26.0	-74.4	-17.5	-18.4	45.9	-51.3	36.7	38.5	6.5
7.6	26.0	-76.1	-16.2	-17.1	46.0	-51.6	36.8	38.5	6.5
7.7	26.1	-76.4	-14.8	-16.0	46.2	-52.0	36.8	38.4	6.5
7.8	26.1	-76.6	-13.6	-15.2	46.1	-51.7	36.9	38.5	6.5
7.9	26.2	-75.0	-12.7	-14.6	46.1	-51.8	37.0	38.5	6.5
8.0	26.3	-74.0	-11.9	-14.2	45.8	-51.2	37.2	38.4	6.6
8.1	26.3	-70.8	-11.3	-13.9	45.7	-51.1	37.3	38.4	6.6
8.2	26.3	-69.4	-11.1	-13.8	45.9	-51.5	37.5	38.3	6.7
8.3	26.2	-67.9	-11.1	-14.0	45.9	-51.4	37.7	38.3	6.7
8.4	26.0	-67.5	-11.7	-14.7	46.0	-51.7	37.9	38.4	6.8
8.5	25.6	-67.4	-12.8	-15.9	45.8	-51.2	38.1	38.4	7.0
8.6	25.1	-67.9	-14.9	-18.0	45.8	-51.1	38.1	38.3	7.1
8.7	24.4	-69.4	-18.2	-21.6	-	-	38.1	38.2	7.4
8.8	23.5	-70.5	-21.6	-28.2	-	-	38.0	38.1	7.6
8.9	22.5	-71.0	-19.3	-31.1	-	-	37.8	38.0	7.9
9.0	21.3	-69.5	-15.0	-21.7	-	-	37.7	37.8	8.3
9.1	20.0	-67.0	-11.9	-17.2	-	-	-	-	8.8
9.2	18.5	-64.1	-9.6	-14.3	-	-	-	-	9.2
9.3	17.0	-62.0	-7.8	-12.1	-	-	-	-	9.8
9.4	15.4	-61.0	-6.4	-10.4	-	-	-	-	10.4
9.5	13.7	-60.8	-5.3	-9.0	-	-	-	-	11.0

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1800\text{ mA}$, 2000 mA , 2200 mA , @ Temperature = $+25^\circ\text{C}$

FREQ	Gain @ 1800 mA	Gain @ 2000 mA	Gain @ 2200 mA	1dB Comp. Output @ 1800 mA	1dB Comp. Output @ 2000 mA	1dB Comp. Output @ 2200 mA	1dB Comp. Output @ 2400 mA	P_{SAT} Output @ 1800 mA	P_{SAT} Output @ 2000 mA	P_{SAT} Output @ 2200 mA	P_{SAT} Output @ 2400 mA
(GHz)	(dB)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
6.1	25.4	25.7	25.9	-	-	-	-	-	-	-	-
6.2	26.3	26.6	26.7	-	-	-	-	-	-	-	-
6.3	27.0	27.3	27.3	-	-	-	-	-	-	-	-
6.4	27.5	27.8	27.8	-	-	-	-	-	-	-	-
6.5	27.8	28.1	28.1	-	35.1	36.2	36.7	-	38.5	38.6	38.6
6.6	28.0	28.3	28.2	-	35.5	36.5	37.0	-	38.5	38.7	38.7
6.7	28.1	28.4	28.3	-	36.2	37.1	37.5	-	38.7	38.8	38.8
6.8	28.2	28.4	28.3	-	36.9	37.7	38.0	-	38.9	38.9	38.9
6.9	28.2	28.4	28.3	-	37.5	38.2	38.4	-	39.0	39.1	39.1
7.0	28.2	28.4	28.3	37.1	37.9	38.4	38.6	39.5	39.1	39.1	39.1
7.1	28.2	28.4	28.3	37.8	38.1	38.5	38.6	39.6	39.2	39.2	39.2
7.2	28.2	28.4	28.4	38.1	38.3	38.6	38.6	39.7	39.3	39.3	39.3
7.3	28.3	28.5	28.4	38.3	38.4	38.6	38.7	39.8	39.4	39.4	39.4
7.4	28.3	28.5	28.5	38.6	38.5	38.6	38.6	39.9	39.4	39.4	39.4
7.5	28.4	28.6	28.6	38.7	38.4	38.4	38.4	39.9	39.4	39.3	39.3
7.6	28.5	28.7	28.7	38.7	38.3	38.3	38.3	39.8	39.3	39.3	39.3
7.7	28.6	28.9	28.8	38.7	38.3	38.4	38.4	39.8	39.3	39.3	39.3
7.8	28.7	28.9	28.9	38.7	38.4	38.5	38.4	39.7	39.3	39.3	39.3
7.9	28.8	29.1	29.0	38.8	38.5	38.5	38.5	39.7	39.3	39.2	39.2
8.0	28.9	29.2	29.1	38.9	38.5	38.5	38.4	39.8	39.2	39.1	39.1
8.1	29.0	29.3	29.2	39.1	38.5	38.5	38.4	39.8	39.2	39.0	39.0
8.2	29.1	29.3	29.3	39.2	38.7	38.6	38.5	39.7	39.2	39.0	39.0
8.3	29.1	29.3	29.2	39.2	38.8	38.8	38.7	39.7	39.2	39.1	39.1
8.4	28.9	29.1	29.0	39.5	39.0	38.9	38.9	39.8	39.3	39.1	39.1
8.5	28.5	28.8	28.7	39.6	39.1	39.0	39.0	39.8	39.2	39.1	39.1
8.6	28.0	28.3	28.1	39.7	39.1	39.0	39.0	39.8	39.2	39.0	39.0
8.7	27.2	27.5	27.3	39.6	39.1	39.0	39.0	39.7	39.1	39.0	39.0
8.8	26.3	26.5	26.3	39.5	39.0	38.9	38.9	39.6	39.0	39.0	39.0
8.9	25.1	25.4	25.2	39.3	38.9	38.8	38.8	39.5	39.0	38.9	38.9
9.0	23.8	24.1	23.9	38.8	38.8	38.8	38.8	39.3	39.0	38.9	38.9
9.1	22.4	22.7	22.5	-	-	-	-	-	-	-	-
9.2	21.0	21.3	21.0	-	-	-	-	-	-	-	-
9.3	19.4	19.7	19.5	-	-	-	-	-	-	-	-
9.4	17.8	18.1	17.8	-	-	-	-	-	-	-	-
9.5	16.0	16.4	16.1	-	-	-	-	-	-	-	-

*Typical Performance Data*TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1800\text{ mA}$, 2000 mA , 2200 mA , @ Temperature = $+25^{\circ}\text{C}$

FREQ	IP-3 @ 1800 mA	IP-3 @ 2000 mA	IP-3 @ 2200 mA	IM3 @ 1800 mA	IM3 @ 2000 mA	IM3 @ 2200 mA	Noise Figure @ 1800 mA	Noise Figure @ 2000 mA	Noise Figure @ 2200 mA
(GHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)	(dB)	(dB)
6.1	-	-	-	-	-	-	5.8	5.6	5.8
6.2	-	-	-	-	-	-	5.8	5.6	5.8
6.3	-	-	-	-	-	-	5.7	5.6	5.8
6.4	-	-	-	-	-	-	5.7	5.6	5.8
6.5	-	-	-	-	-	-	5.7	5.6	5.8
6.6	-	-	-	-	-	-	5.7	5.6	5.8
6.7	-	-	-	-	-	-	5.7	5.6	5.8
6.8	-	-	-	-	-	-	5.7	5.6	5.7
6.9	-	-	-	-	-	-	5.7	5.6	5.8
7.0	44.3	45.4	46.3	-48.1	-50.4	-52.2	5.6	5.5	5.7
7.1	45.0	46.0	46.8	-49.6	-51.6	-53.3	5.6	5.5	5.7
7.2	45.5	46.4	47.1	-50.6	-52.4	-53.9	5.6	5.5	5.7
7.3	45.9	46.7	47.3	-51.5	-53.1	-54.4	5.6	5.5	5.7
7.4	46.1	46.8	47.4	-51.8	-53.4	-54.4	5.6	5.5	5.6
7.5	46.1	46.9	47.4	-51.7	-53.4	-54.5	5.5	5.4	5.6
7.6	46.3	47.0	47.5	-52.3	-53.7	-54.7	5.5	5.4	5.6
7.7	46.6	47.3	47.7	-52.8	-54.3	-55.0	5.5	5.4	5.6
7.8	46.5	47.1	47.5	-52.5	-53.9	-54.7	5.5	5.4	5.6
7.9	46.5	47.2	47.5	-52.7	-54.0	-54.8	5.5	5.4	5.6
8.0	46.2	46.8	47.2	-51.9	-53.4	-54.2	5.5	5.4	5.6
8.1	46.1	46.9	47.2	-51.9	-53.5	-54.0	5.6	5.4	5.6
8.2	46.3	47.0	47.3	-52.3	-53.8	-54.4	5.6	5.5	5.7
8.3	46.2	46.9	47.2	-52.2	-53.5	-54.1	5.7	5.5	5.8
8.4	46.3	47.0	47.3	-52.3	-53.8	-54.2	5.8	5.6	5.8
8.5	46.0	46.7	47.0	-51.7	-53.1	-53.6	5.9	5.7	6.0
8.6	45.9	46.7	47.0	-51.5	-53.0	-53.6	6.0	5.9	6.1
8.7	-	-	-	-	-	-	6.2	6.1	6.3
8.8	-	-	-	-	-	-	6.5	6.3	6.6
8.9	-	-	-	-	-	-	6.7	6.6	6.8
9.0	-	-	-	-	-	-	7.1	7.0	7.2
9.1	-	-	-	-	-	-	7.4	7.4	7.5
9.2	-	-	-	-	-	-	7.9	7.8	8.0
9.3	-	-	-	-	-	-	8.3	8.3	8.4
9.4	-	-	-	-	-	-	8.8	8.8	8.9
9.5	-	-	-	-	-	-	9.4	9.4	9.5

*Typical Performance Data*TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 2000\text{ mA}$ @ Temperature = +25°C

Power	OIP3 @7.1 GHz	OIP3 @7.4 GHz	OIP3 @7.8 GHz	OIP3 @8.2 GHz	OIP3 @8.5GHz
(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
17.0	46.0	46.8	47.1	46.9	46.7
20.0	45.8	46.7	46.9	46.8	46.5
23.0	45.2	46.3	46.7	46.5	46.1
26.0	43.3	44.8	45.5	45.3	44.6
29.0	42.3	43.1	43.5	43.4	42.9

*Typical Performance Data*TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 2000\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

Power	IM3 @7.1 GHz	IM3 @7.4 GHz	IM3 @7.8 GHz	IM3 @8.2 GHz	IM3 @8.5GHz
(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
17.0	-58.1	-59.8	-60.3	-59.8	-59.3
20.0	-51.6	-53.4	-53.9	-53.8	-53.1
23.0	-44.4	-46.5	-47.3	-47.1	-46.2
26.0	-34.4	-37.5	-38.9	-38.7	-37.3
29.0	-26.8	-28.4	-29.1	-29.0	-27.9

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 2000\text{ mA}$ @ 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)
7.1	20.3	28.0	7.8	20.6	28.2	8.5	21.0	28.6
7.1	21.2	28.0	7.8	21.5	28.2	8.5	21.9	28.6
7.1	22.1	28.0	7.8	22.4	28.2	8.5	22.8	28.6
7.1	23.1	28.0	7.8	23.4	28.2	8.5	23.8	28.6
7.1	24.0	28.0	7.8	24.3	28.2	8.5	24.7	28.6
7.1	25.0	28.0	7.8	25.3	28.2	8.5	25.7	28.6
7.1	25.9	28.0	7.8	26.3	28.3	8.5	26.7	28.7
7.1	26.9	28.0	7.8	27.3	28.3	8.5	27.7	28.7
7.1	27.9	28.0	7.8	28.2	28.3	8.5	28.7	28.7
7.1	28.9	28.0	7.8	29.2	28.3	8.5	29.7	28.7
7.1	29.9	28.0	7.8	30.2	28.3	8.5	30.7	28.8
7.1	30.9	28.0	7.8	31.2	28.3	8.5	31.7	28.8
7.1	31.9	28.0	7.8	32.2	28.3	8.5	32.7	28.8
7.1	32.8	28.0	7.8	33.2	28.3	8.5	33.8	28.8
7.1	33.8	28.0	7.8	34.1	28.2	8.5	34.9	28.9
7.1	34.8	28.0	7.8	35.1	28.2	8.5	36.0	29.0
7.1	35.8	27.9	7.8	36.1	28.2	8.5	37.1	29.2
7.1	36.7	27.8	7.8	37.0	28.1	8.5	38.0	29.1
7.1	37.5	27.7	7.8	37.9	28.0	8.5	38.7	28.8
7.1	38.3	27.5	7.8	38.5	27.7	8.5	39.3	28.4
7.1	39.0	27.2	7.8	39.1	27.2	8.5	39.6	27.7
7.1	39.5	26.7	7.8	39.4	26.6	8.5	39.7	26.8
7.1	39.7	25.9	7.8	39.7	25.8	8.5	39.7	25.7
7.1	39.7	24.9	7.8	39.7	24.8	8.5	39.6	24.6
7.1	39.7	23.8	7.8	39.8	23.8	8.5	39.6	23.5
7.1	39.6	22.7	7.8	39.7	22.8	8.5	39.5	22.5
7.1	39.7	21.7	7.8	39.7	21.7	8.5	39.5	21.4
7.4	20.2	27.9	8.2	21.0	28.7			
7.4	21.1	27.9	8.2	22.0	28.7			
7.4	22.0	27.9	8.2	22.9	28.7			
7.4	22.9	27.9	8.2	23.8	28.7			
7.4	23.9	27.9	8.2	24.8	28.7			
7.4	24.8	27.9	8.2	25.8	28.7			
7.4	25.8	27.9	8.2	26.7	28.7			
7.4	26.8	27.9	8.2	27.7	28.7			
7.4	27.8	27.9	8.2	28.7	28.7			
7.4	28.8	28.0	8.2	29.7	28.8			
7.4	29.8	28.0	8.2	30.7	28.8			
7.4	30.8	28.0	8.2	31.7	28.8			
7.4	31.7	27.9	8.2	32.7	28.8			
7.4	32.7	27.9	8.2	33.7	28.8			
7.4	33.6	27.9	8.2	34.7	28.8			
7.4	34.6	27.8	8.2	35.7	28.8			
7.4	35.6	27.8	8.2	36.7	28.8			
7.4	36.5	27.8	8.2	37.6	28.7			
7.4	37.5	27.7	8.2	38.3	28.4			
7.4	38.3	27.6	8.2	38.9	28.0			
7.4	39.0	27.3	8.2	39.3	27.4			
7.4	39.5	26.8	8.2	39.5	26.6			
7.4	39.8	26.1	8.2	39.6	25.7			
7.4	39.9	25.2	8.2	39.6	24.7			
7.4	39.9	24.1	8.2	39.6	23.7			
7.4	39.7	23.0	8.2	39.5	22.6			
7.4	39.7	21.9	8.2	39.5	21.5			

*Typical Performance Data*TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 2000\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

FREQ	P _{OUT}	Phase	FREQ	P _{OUT}	Phase	FREQ	P _{OUT}	Phase
(GHz)	(dBm)	(°)	(GHz)	(dBm)	(°)	(GHz)	(dBm)	(°)
7.1	20.5	0.0	7.8	21.3	0.0	8.5	21.2	0.0
7.1	21.4	0.0	7.8	22.2	0.0	8.5	22.1	0.0
7.1	22.3	0.0	7.8	23.1	0.1	8.5	23.0	0.0
7.1	23.2	0.1	7.8	24.1	0.1	8.5	24.0	0.1
7.1	24.2	0.1	7.8	25.0	0.2	8.5	24.9	0.2
7.1	25.1	0.2	7.8	26.0	0.2	8.5	25.9	0.3
7.1	26.1	0.3	7.8	27.0	0.4	8.5	26.9	0.4
7.1	27.1	0.5	7.8	27.9	0.5	8.5	27.9	0.6
7.1	28.0	0.7	7.8	28.9	0.7	8.5	28.9	0.8
7.1	29.0	1.1	7.8	29.9	1.0	8.5	29.9	1.1
7.1	30.0	1.6	7.8	30.9	1.4	8.5	30.9	1.7
7.1	30.9	2.3	7.8	31.9	2.1	8.5	31.9	2.5
7.1	31.8	3.6	7.8	32.8	3.1	8.5	32.9	3.9
7.1	32.7	5.2	7.8	33.7	4.5	8.5	33.9	5.7
7.1	33.6	7.2	7.8	34.6	6.2	8.5	34.9	7.9
7.1	34.5	9.3	7.8	35.6	8.2	8.5	36.0	10.3
7.1	35.3	11.5	7.8	36.5	10.3	8.5	37.1	12.8
7.1	36.1	13.8	7.8	37.3	12.3	8.5	38.0	14.8
7.1	36.9	16.2	7.8	38.0	14.1	8.5	38.6	16.7
7.1	37.6	18.5	7.8	38.5	16.0	8.5	39.2	19.1
7.1	38.3	20.7	7.8	38.9	18.3	8.5	39.3	24.8
7.1	38.8	23.3	7.8	39.2	21.7	8.5	39.3	32.7
7.1	39.1	26.7	7.8	39.3	26.4	8.5	39.3	41.1
7.1	39.1	30.2	7.8	39.3	31.7			
7.1	39.1	33.1	7.8	39.3	36.8			
7.1	39.1	35.3	7.8	39.3	41.0			
7.1	39.2	37.0	7.8	39.2	44.3			
7.4	20.7	0.0	8.2	21.5	0.0			
7.4	21.6	0.0	8.2	22.4	0.0			
7.4	22.5	0.0	8.2	23.3	0.1			
7.4	23.5	0.1	8.2	24.3	0.1			
7.4	24.4	0.1	8.2	25.2	0.2			
7.4	25.4	0.2	8.2	26.2	0.3			
7.4	26.3	0.3	8.2	27.2	0.4			
7.4	27.3	0.4	8.2	28.2	0.6			
7.4	28.3	0.6	8.2	29.2	0.8			
7.4	29.3	0.8	8.2	30.2	1.1			
7.4	30.3	1.1	8.2	31.2	1.6			
7.4	31.3	1.6	8.2	32.2	2.4			
7.4	32.2	2.4	8.2	33.2	3.6			
7.4	33.1	3.6	8.2	34.2	5.2			
7.4	34.0	5.3	8.2	35.2	7.1			
7.4	34.9	7.1	8.2	36.3	9.3			
7.4	35.8	9.1	8.2	37.3	11.4			
7.4	36.6	11.2	8.2	38.0	13.3			
7.4	37.4	13.2	8.2	38.6	15.2			
7.4	38.1	15.0	8.2	39.1	17.3			
7.4	38.7	16.7	8.2	39.3	20.6			
7.4	39.1	18.7	8.2	39.4	25.6			
7.4	39.3	21.9	8.2	39.4	31.6			
7.4	39.4	25.9	8.2	39.4	37.9			
7.4	39.4	29.8	8.2	39.4	43.7			
7.4	39.3	33.0	8.2	39.3	48.6			
7.4	39.3	35.2	8.2	39.3	52.5			

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 2000\text{ mA}$ @ Temperature = $+25^\circ\text{C}$

FREQ	P _{OUT}	2nd Harmonics	FREQ	P _{OUT}	3rd Harmonics
(MHz)	(dBm)	(dB)	(MHz)	(dBm)	(dB)
7100	17	-79	7100	17	-96
7100	20	-55	7100	20	-82
7100	23	-57	7100	23	-84
7100	26	-60	7100	26	-87
7100	29	-62	7100	29	-90
7100	31	-63	7100	31	-90
7100	36	-65	7100	36	-79
7100	39	-65	7100	39	-79
7400	17	-82	7400	17	-90
7400	21	-56	7400	21	-82
7400	23	-58	7400	23	-84
7400	26	-61	7400	26	-87
7400	29	-64	7400	29	-89
7400	31	-64	7400	31	-90
7400	37	-63	7400	37	-77
7400	39	-63	7400	39	-65
7800	18	-81	7800	18	-94
7800	21	-56	7800	21	-82
7800	24	-58	7800	24	-85
7800	27	-60	7800	27	-87
7800	30	-63	7800	30	-91
7800	32	-63	7800	32	-86
7800	37	-62	7800	37	-68
7800	39	-62	7800	39	-59
8200	18	-78	8200	18	-95
8200	21	-70	8200	21	-82
8200	24	-70	8200	24	-85
8200	27	-71	8200	27	-87
8200	30	-68	8200	30	-88
8200	32	-66	8200	32	-83
8200	38	-61	8200	38	-61
8200	39	-61	8200	39	-52
8500	17	-76	8500	17	-95
8500	21	-69	8500	21	-82
8500	24	-70	8500	24	-85
8500	27	-69	8500	27	-88
8500	30	-67	8500	30	-88
8500	32	-65	8500	32	-82
8500	38	-60	8500	38	-60
8500	39	-58	8500	39	-52

*Typical Performance Data*TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 2000\text{ mA}$ @ Temperature = $+25^\circ\text{C}$

Power	P_{DISS} (@7.1 GHz)	P_{DISS} (@7.4 GHz)	P_{DISS} (@7.8 GHz)	P_{DISS} (@8.2 GHz)	P_{DISS} (@8.5 GHz)	PAE (@7.1 GHz)	PAE (@7.4 GHz)	PAE (@7.8 GHz)	PAE (@8.2 GHz)	PAE (@8.5 GHz)
(dBm)	(W)	(W)	(W)	(W)	(W)	(%)	(%)	(%)	(%)	(%)
20.4	15.8	15.7	15.7	15.7	15.7	0.7	0.7	0.8	0.8	0.7
21.3	15.8	15.7	15.7	15.6	15.7	0.8	0.8	0.9	1.0	0.9
22.2	15.8	15.7	15.7	15.6	15.7	1.0	1.0	1.2	1.3	1.1
23.1	15.7	15.7	15.6	15.6	15.6	1.3	1.3	1.4	1.6	1.4
24.1	15.7	15.7	15.6	15.5	15.6	1.6	1.6	1.8	2.0	1.7
25.0	15.7	15.6	15.5	15.4	15.5	2.0	2.0	2.2	2.4	2.2
26.0	15.6	15.6	15.5	15.4	15.4	2.5	2.5	2.8	3.1	2.7
27.0	15.5	15.5	15.4	15.3	15.4	3.1	3.1	3.5	3.8	3.4
28.0	15.5	15.5	15.3	15.2	15.3	3.9	3.9	4.4	4.8	4.3
29.0	15.4	15.4	15.2	15.0	15.2	4.9	4.8	5.5	6.0	5.4
29.9	15.3	15.3	15.0	14.9	15.1	6.0	6.0	6.8	7.5	6.8
30.9	15.3	15.2	14.9	14.7	14.9	7.5	7.4	8.5	9.4	8.4
31.9	15.3	15.3	14.8	14.6	14.9	9.2	9.1	10.5	11.6	10.5
32.8	15.5	15.4	14.8	14.6	15.0	11.0	10.9	12.7	14.1	12.8
33.8	15.8	15.7	15.0	14.7	15.2	13.1	12.9	15.1	16.9	15.5
34.7	16.1	16.1	15.2	14.9	15.5	15.5	15.2	17.9	20.2	18.9
35.6	16.4	16.5	15.5	15.0	15.8	18.1	17.8	21.0	24.0	22.9
36.5	16.7	16.8	15.8	15.2	16.1	21.0	20.7	24.4	27.5	26.9
37.3	17.0	17.2	15.9	15.3	16.3	23.9	23.8	27.6	30.6	30.4
38.1	17.2	17.5	16.0	15.4	16.6	27.1	27.0	30.4	33.1	33.3
38.8	17.3	17.7	16.1	15.7	16.9	30.4	30.1	32.8	34.8	35.0
39.3	17.3	17.8	16.2	16.1	17.3	33.2	32.8	34.6	35.3	35.0
39.6	17.3	17.9	16.5	16.6	17.7	34.7	34.4	35.2	35.0	34.2
39.8	17.2	18.0	16.9	17.0	18.4	35.3	35.0	35.1	34.4	33.1
39.7	17.0	18.2	17.2	17.5	19.1	35.3	34.9	34.7	33.5	32.0
39.7	16.9	18.2	17.6	18.1	19.9	35.3	34.5	34.0	32.5	30.8
39.7	17.1	18.3	18.1	18.6	20.6	35.3	34.2	33.3	31.6	29.9

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 2000\text{ mA}$ @ Temperature = $+25^\circ\text{C}$

P_{IN}	P_{OUT} @7.1 GHz	P_{OUT} @7.4 GHz	P_{OUT} @7.8 GHz	P_{OUT} @8.2 GHz	P_{OUT} @8.5 GHz	I_{DD} @7.1 GHz	I_{DD} @7.4 GHz	I_{DD} @7.8 GHz	I_{DD} @8.2 GHz	I_{DD} @8.5 GHz
(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(mA)	(mA)	(mA)	(mA)	(mA)
-7.5	20.4	20.5	20.9	21.2	20.7	2.0	2.0	2.0	2.0	2.0
-6.6	21.3	21.4	21.8	22.1	21.6	2.0	2.0	2.0	2.0	2.0
-5.6	22.2	22.3	22.8	23.1	22.5	2.0	2.0	2.0	2.0	2.0
-4.7	23.1	23.2	23.7	24.0	23.5	2.0	2.0	2.0	2.0	2.0
-3.8	24.1	24.1	24.7	25.0	24.4	2.0	2.0	2.0	2.0	2.0
-2.8	25.0	25.1	25.6	25.9	25.4	2.0	2.0	2.0	2.0	2.0
-1.8	26.0	26.1	26.6	26.9	26.4	2.0	2.0	2.0	2.0	2.0
-0.9	27.0	27.0	27.6	27.9	27.4	2.0	2.0	2.0	2.0	2.0
0.1	28.0	28.0	28.6	28.9	28.4	2.0	2.0	2.0	2.0	2.0
1.1	29.0	29.0	29.6	29.9	29.4	2.0	2.0	2.0	2.0	2.0
2.1	29.9	30.0	30.6	30.9	30.4	2.0	2.0	2.0	2.0	2.0
3.1	30.9	31.0	31.5	31.9	31.4	2.1	2.0	2.0	2.0	2.0
4.1	31.9	32.0	32.5	32.9	32.4	2.1	2.1	2.1	2.1	2.1
5.0	32.8	32.9	33.4	33.8	33.4	2.2	2.1	2.1	2.2	2.1
6.0	33.8	33.8	34.4	34.8	34.5	2.3	2.2	2.2	2.3	2.3
7.0	34.7	34.8	35.4	35.9	35.6	2.4	2.3	2.3	2.4	2.4
8.0	35.6	35.7	36.3	36.9	36.7	2.5	2.5	2.5	2.5	2.6
9.0	36.5	36.6	37.2	37.8	37.7	2.6	2.6	2.6	2.7	2.8
10.0	37.3	37.4	38.0	38.5	38.5	2.8	2.8	2.8	2.8	2.9
11.0	38.1	38.2	38.6	39.0	39.2	2.9	2.9	2.9	3.0	3.1
12.0	38.8	38.8	39.1	39.4	39.6	3.1	3.1	3.0	3.1	3.3
13.0	39.3	39.3	39.4	39.6	39.7	3.2	3.2	3.2	3.2	3.3
14.0	39.6	39.6	39.6	39.6	39.7	3.3	3.3	3.2	3.3	3.4
15.1	39.8	39.8	39.7	39.6	39.6	3.3	3.3	3.3	3.3	3.4
16.1	39.7	39.8	39.6	39.5	39.6	3.3	3.4	3.4	3.4	3.5
17.1	39.7	39.8	39.6	39.5	39.5	3.3	3.4	3.4	3.4	3.6
18.1	39.7	39.7	39.6	39.4	39.5	3.3	3.4	3.5	3.5	3.7

*Typical Performance Data*TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 2000\text{ mA}$ @ Temperature = $+25^\circ\text{C}$

Power	P_{DISS} (@7.1 GHz)	P_{DISS} (@7.4 GHz)	P_{DISS} (@7.8 GHz)	P_{DISS} (@8.2 GHz)	P_{DISS} (@8.5 GHz)	PAE (@7.1 GHz)	PAE (@7.4 GHz)	PAE (@7.8 GHz)	PAE (@8.2 GHz)	PAE (@8.5 GHz)
(dBm)	(W)	(W)	(W)	(W)	(W)	(%)	(%)	(%)	(%)	(%)
-7.5	15.8	15.7	15.7	15.7	15.7	0.7	0.7	0.8	0.8	0.7
-6.6	15.8	15.7	15.7	15.6	15.7	0.8	0.9	1.0	1.0	0.9
-5.6	15.8	15.7	15.7	15.6	15.7	1.0	1.1	1.2	1.3	1.1
-4.7	15.7	15.7	15.6	15.6	15.6	1.3	1.3	1.5	1.6	1.4
-3.8	15.7	15.6	15.6	15.5	15.6	1.6	1.6	1.8	2.0	1.7
-2.8	15.7	15.6	15.5	15.5	15.5	2.0	2.0	2.3	2.5	2.2
-1.8	15.6	15.5	15.4	15.4	15.4	2.5	2.5	2.9	3.1	2.7
-0.9	15.5	15.5	15.4	15.3	15.4	3.1	3.2	3.6	3.9	3.4
0.1	15.5	15.4	15.3	15.2	15.3	3.9	4.0	4.5	4.8	4.3
1.1	15.4	15.3	15.1	15.1	15.2	4.9	5.0	5.6	6.1	5.4
2.1	15.3	15.2	15.0	14.9	15.1	6.0	6.2	7.0	7.6	6.8
3.1	15.3	15.1	14.9	14.8	14.9	7.5	7.7	8.7	9.4	8.4
4.1	15.3	15.0	14.8	14.7	14.9	9.2	9.4	10.7	11.6	10.5
5.0	15.5	15.1	14.9	14.8	15.0	11.0	11.4	12.9	14.0	12.8
6.0	15.8	15.3	15.0	15.0	15.2	13.1	13.6	15.5	16.9	15.5
7.0	16.1	15.6	15.3	15.2	15.5	15.5	16.1	18.3	20.2	18.9
8.0	16.4	15.9	15.6	15.4	15.8	18.1	18.9	21.6	24.0	22.9
9.0	16.7	16.2	15.8	15.6	16.1	21.0	22.0	25.0	27.6	26.9
10.0	17.0	16.5	16.0	15.8	16.3	23.9	25.2	28.2	30.7	30.4
11.0	17.2	16.7	16.1	16.0	16.6	27.1	28.4	31.0	33.3	33.3
12.0	17.3	16.8	16.3	16.3	16.9	30.4	31.3	33.3	34.8	35.0
13.0	17.3	16.9	16.5	16.7	17.3	33.2	33.7	34.7	35.2	35.0
14.0	17.3	17.1	16.9	17.1	17.7	34.7	35.1	35.0	34.7	34.2
15.1	17.2	17.3	17.3	17.5	18.4	35.3	35.5	34.7	34.0	33.1
16.1	17.0	17.5	17.7	18.1	19.1	35.3	35.2	34.1	33.0	32.0
17.1	16.9	17.7	18.1	18.6	19.9	35.3	34.7	33.4	32.1	30.8
18.1	17.1	17.9	18.7	19.3	20.6	35.3	34.2	32.5	31.2	29.9

*Typical Performance Data*TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 2000\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

FREQ	P_{DISS} (@ P_{SAT})	PAE (@ P_{SAT})
(GHz)	(W)	(%)
7.0	15.9	36.4
7.1	17.1	35.3
7.3	18.3	34.2
7.5	17.5	34.2
7.7	18.1	33.3
7.9	19.2	31.8
8.1	18.6	31.6
8.3	19.9	30.7
8.5	20.6	29.9
8.6	21.4	29.0

MMIC Amplifier

PMA6-93-10W+

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 2000\text{ mA}$ @ Temperature = +25°C

P_{OUT}	I_{DD} @7.1 GHz	I_{DD} @7.4 GHz	I_{DD} @7.8 GHz	I_{DD} @8.2 GHz	I_{DD} @8.5 GHz
(dBm)	(mA)	(mA)	(mA)	(mA)	(mA)
20.4	2.0	2.0	2.0	2.0	2.0
21.3	2.0	2.0	2.0	2.0	2.0
22.2	2.0	2.0	2.0	2.0	2.0
23.1	2.0	2.0	2.0	2.0	2.0
24.1	2.0	2.0	2.0	2.0	2.0
25.0	2.0	2.0	2.0	2.0	2.0
26.0	2.0	2.0	2.0	2.0	2.0
27.0	2.0	2.0	2.0	2.0	2.0
28.0	2.0	2.0	2.0	2.0	2.0
29.0	2.0	2.0	2.0	2.0	2.0
29.9	2.0	2.0	2.0	2.0	2.0
30.9	2.1	2.0	2.0	2.0	2.0
31.9	2.1	2.1	2.1	2.1	2.1
32.8	2.2	2.1	2.1	2.2	2.1
33.8	2.3	2.2	2.2	2.3	2.3
34.7	2.4	2.3	2.3	2.4	2.4
35.6	2.5	2.5	2.5	2.5	2.6
36.5	2.6	2.6	2.6	2.7	2.8
37.3	2.8	2.8	2.8	2.8	2.9
38.1	2.9	2.9	2.9	3.0	3.1
38.8	3.1	3.1	3.0	3.1	3.3
39.3	3.2	3.2	3.2	3.2	3.3
39.6	3.3	3.3	3.2	3.3	3.4
39.8	3.3	3.3	3.3	3.3	3.4
39.7	3.3	3.4	3.4	3.4	3.5
39.7	3.3	3.4	3.4	3.4	3.6
39.7	3.3	3.4	3.5	3.5	3.7

GAIN VARIATION VS FREQUENCY & TEMPERATURE

INPUT POWER = -15.00dBm, Vd = 8.00V

FREQ	-40°C to +95°C
GHz	°C
6.1	-0.028
6.2	-0.029
6.3	-0.030
6.4	-0.031
6.5	-0.032
6.6	-0.032
6.7	-0.033
6.8	-0.033
6.9	-0.033
7.0	-0.033
7.1	-0.033
7.2	-0.033
7.3	-0.033
7.4	-0.034
7.5	-0.034
7.6	-0.035
7.7	-0.035
7.8	-0.036
7.9	-0.036
8.0	-0.037
8.1	-0.038
8.2	-0.040
8.3	-0.041
8.4	-0.042
8.5	-0.043
8.6	-0.044
8.7	-0.045
8.8	-0.044
8.9	-0.044
9.0	-0.043
9.1	-0.043
9.2	-0.042
9.3	-0.042
9.4	-0.042
9.5	-0.042