

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: $V_{DD} = +7\text{ V}$, $I_{DD} = 1500\text{ mA}$ @ 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)	(dBm)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)
9.0	29.3	-68.9	-11.8	-15.3	44.6	-26.9	37.8	38.5	4.8	-43.4	-67.9
9.1	29.6	-68.0	-11.6	-17.2	44.9	-27.3	38.0	38.4	4.7	-46.6	-68.1
9.2	29.8	-69.3	-11.5	-19.8	45.4	-28.3	37.9	38.3	4.7	-48.1	-67.8
9.3	29.9	-68.6	-11.4	-23.6	45.5	-28.6	37.8	38.2	4.7	-51.8	-67.8
9.4	30.0	-68.9	-11.2	-30.4	45.8	-29.1	37.8	38.1	4.7	-53.3	-67.5
9.5	30.0	-68.4	-11.1	-30.0	46.0	-29.5	37.8	38.0	4.7	-53.8	-68.4
9.6	30.0	-70.7	-10.9	-25.4	46.2	-29.8	37.6	37.8	4.7	-56.0	-68.2
9.7	29.9	-68.1	-10.8	-21.6	46.2	-30.0	37.7	37.9	4.7	-57.3	-67.7
9.8	29.9	-67.8	-10.7	-19.0	46.4	-30.3	37.7	38.0	4.7	-58.5	-65.8
9.9	29.8	-66.7	-10.6	-17.1	46.5	-30.4	37.7	38.1	4.7	-58.9	-66.2
10.0	29.8	-70.8	-10.5	-15.6	46.5	-30.6	37.7	38.1	4.7	-59.7	-61.6
10.1	29.8	-68.0	-10.5	-14.6	46.6	-30.6	37.5	38.0	4.7	-60.4	-59.5
10.2	29.8	-69.4	-10.4	-13.7	46.3	-30.3	37.5	38.0	4.7	-59.8	-59.6
10.3	29.8	-67.5	-10.5	-13.1	46.2	-30.1	37.6	38.1	4.7	-59.3	-63.9
10.4	30.0	-67.1	-10.5	-12.7	46.2	-30.0	37.6	38.0	4.7	-59.4	-65.0
10.5	30.1	-68.0	-10.6	-12.4	46.1	-29.7	37.7	38.0	4.7	-58.0	-62.6
10.6	30.4	-67.0	-10.8	-12.2	46.0	-29.5	37.5	37.9	4.7	-56.4	-60.1
10.7	30.6	-66.2	-11.1	-12.2	45.7	-29.0	37.6	38.0	4.7	-54.9	-58.8
10.8	30.8	-65.3	-11.5	-12.3	45.6	-28.8	37.7	38.0	4.7	-53.3	-57.9
10.9	31.0	-64.3	-12.0	-12.6	45.6	-28.8	37.8	38.2	4.7	-52.6	-59.0
11.0	31.2	-64.5	-12.6	-13.0	45.4	-28.4	38.0	38.3	4.7	-51.9	-59.8
11.1	31.3	-63.5	-13.3	-13.5	45.3	-28.2	38.0	38.3	4.8	-51.9	-61.0
11.2	31.5	-64.4	-14.0	-14.0	45.3	-27.9	38.0	38.3	4.8	-52.3	-59.8
11.3	31.6	-62.9	-14.7	-14.4	45.1	-27.5	38.1	38.4	4.8	-52.6	-58.0
11.4	31.7	-63.8	-15.4	-14.6	45.0	-27.4	38.2	38.5	4.8	-53.6	-55.2
11.5	31.7	-62.6	-15.8	-14.7	44.7	-26.8	38.2	38.5	4.9	-53.4	-53.8
11.6	31.7	-61.7	-15.9	-14.6	44.4	-26.3	38.1	38.4	4.9	-53.6	-52.6
11.7	31.7	-60.9	-15.5	-14.3	44.0	-25.6	38.0	38.3	5.0	-53.9	-52.2
11.8	31.6	-61.0	-14.8	-14.0	43.8	-25.1	37.9	38.2	5.0	-54.7	-50.9
11.9	31.4	-61.9	-13.9	-13.8	43.5	-24.5	37.8	38.1	5.1	-55.1	-51.4
12.0	31.1	-60.6	-13.0	-13.6	43.1	-23.4	37.4	37.7	5.1	-55.5	-52.0
12.1	30.7	-60.6	-12.2	-13.4	42.6	-22.5	37.1	37.3	5.2	-56.4	-56.2
12.2	30.1	-60.5	-11.3	-13.1	42.3	-22.2	36.7	37.0	5.3	-58.0	-60.9
12.3	29.4	-59.5	-10.6	-12.4	42.1	-22.2	36.4	36.7	5.3	-57.6	-65.7
12.4	28.5	-59.0	-9.8	-11.3	-	-	35.9	36.3	5.5	-59.2	-64.0
12.5	27.4	-59.1	-9.1	-9.9	-	-	35.2	35.8	5.6	-58.4	-57.6
12.6	26.0	-58.9	-8.4	-8.3	-	-	34.5	35.1	5.7	-59.3	-52.3
12.7	24.3	-58.6	-7.7	-6.8	-	-	33.8	34.5	5.8	-59.1	-53.8

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: $V_{DD} = +6\text{ V}$, $I_{DD} = 1500\text{ mA}$ @ 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)	(dBm)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)
9.0	30.3	-68.0	-11.5	-16.2	45.3	-28.3	37.2	37.8	4.6	-44.0	-70.2
9.1	30.7	-68.5	-11.5	-18.0	45.4	-28.1	37.1	37.6	4.6	-45.0	-69.9
9.2	30.9	-67.4	-11.4	-20.7	45.5	-28.1	36.9	37.4	4.6	-47.1	-68.7
9.3	31.1	-70.1	-11.4	-24.7	45.9	-28.1	36.8	37.2	4.6	-50.7	-68.2
9.4	31.2	-70.3	-11.3	-30.7	46.1	-29.0	36.6	37.0	4.6	-54.4	-68.7
9.5	31.2	-67.6	-11.2	-33.5	46.0	-30.3	36.5	36.8	4.6	-55.2	-69.3
9.6	31.1	-69.1	-11.1	-27.3	46.0	-30.9	36.4	36.7	4.6	-54.5	-68.4
9.7	31.1	-68.0	-11.1	-23.3	46.3	-31.2	36.4	36.7	4.6	-54.5	-67.4
9.8	31.1	-68.1	-11.0	-20.6	46.1	-31.3	36.3	36.7	4.6	-55.2	-66.2
9.9	31.0	-67.9	-10.9	-18.4	46.3	-31.6	36.3	36.7	4.6	-56.8	-66.4
10.0	30.9	-68.8	-10.8	-17.0	46.2	-30.9	36.3	36.7	4.6	-57.1	-66.9
10.1	30.9	-68.6	-10.8	-15.9	46.0	-31.2	36.3	36.7	4.6	-58.1	-64.3
10.2	30.9	-68.6	-10.8	-15.1	45.9	-31.0	36.3	36.8	4.6	-57.5	-64.3
10.3	31.0	-71.9	-10.8	-14.4	46.0	-30.8	36.3	36.8	4.6	-57.9	-61.7
10.4	31.1	-70.3	-10.9	-13.9	46.0	-29.8	36.3	36.8	4.6	-57.4	-63.0
10.5	31.3	-70.5	-11.0	-13.5	45.9	-30.2	36.4	36.9	4.6	-58.3	-61.3
10.6	31.5	-69.7	-11.1	-13.2	45.7	-30.2	36.4	36.9	4.6	-57.5	-62.0
10.7	31.8	-68.7	-11.3	-13.1	45.6	-29.8	36.5	36.9	4.6	-57.5	-62.9
10.8	32.0	-67.9	-11.7	-13.2	45.8	-29.4	36.5	37.0	4.6	-56.1	-63.9
10.9	32.2	-67.2	-12.3	-13.4	45.7	-29.1	36.6	37.1	4.6	-54.8	-60.6
11.0	32.4	-67.5	-13.0	-13.5	45.9	-29.1	36.7	37.1	4.7	-55.1	-58.2
11.1	32.5	-71.3	-13.5	-13.5	45.6	-28.7	36.7	37.2	4.7	-55.5	-48.9
11.2	32.7	-71.9	-13.7	-13.4	45.4	-28.4	36.7	37.2	4.7	-55.1	-50.4
11.3	33.0	-66.7	-13.8	-13.6	45.4	-28.1	36.7	37.2	4.7	-54.2	-51.0
11.4	33.2	-62.6	-14.0	-14.1	45.2	-27.8	36.7	37.2	4.7	-54.0	-57.6
11.5	33.2	-60.6	-14.6	-14.4	44.8	-27.8	36.6	37.2	4.8	-53.4	-56.4
11.6	33.1	-60.0	-15.3	-13.8	44.4	-27.5	36.4	37.1	4.8	-53.8	-54.1
11.7	33.0	-60.0	-15.3	-13.2	44.1	-26.7	36.4	37.0	4.8	-54.5	-50.4
11.8	33.0	-60.5	-15.0	-12.7	43.9	-26.2	36.1	36.9	4.9	-54.7	-47.3
11.9	32.9	-60.7	-14.0	-12.6	43.5	-26.3	35.9	36.6	4.9	-56.9	-46.8
12.0	32.6	-60.6	-13.0	-12.6	43.1	-26.1	35.5	36.4	5.0	-59.6	-46.6
12.1	32.2	-60.8	-12.0	-12.5	40.4	-25.8	35.2	36.1	5.1	-62.8	-43.0
12.2	31.5	-59.6	-11.3	-12.1	-	-24.9	34.8	35.7	5.2	-63.6	-42.9
12.3	30.8	-60.0	-10.6	-11.6	-	-25.0	34.4	35.3	5.3	-63.8	-46.2
12.4	29.9	-59.1	-9.7	-10.7	-	-23.4	33.9	34.8	5.4	-62.9	-52.3
12.5	28.6	-59.0	-8.7	-9.3	-	-	33.5	34.3	5.5	-63.3	-49.7
12.6	26.8	-60.0	-7.7	-7.5	-	-	33.0	33.7	5.6	-65.1	-50.1
12.7	24.6	-61.4	-6.9	-5.9	-	-	32.4	33.1	5.8	-62.1	-51.8

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Definitions:

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Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1500\text{ mA}$ @ 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)	(dBm)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)
9.0	28.3	-67.9	-11.9	-13.5	44.8	-27.5	37.6	38.7	5.0	-43.9	-68.7
9.1	28.6	-67.4	-11.7	-15.1	44.9	-27.5	38.1	38.8	5.0	-46.8	-68.7
9.2	28.8	-67.9	-11.5	-17.1	45.2	-27.8	38.3	38.8	5.0	-48.3	-68.0
9.3	29.0	-67.4	-11.4	-19.9	45.2	-28.0	38.4	38.8	5.0	-51.5	-68.2
9.4	29.0	-66.9	-11.2	-24.4	45.4	-28.4	38.5	38.9	4.9	-53.3	-68.2
9.5	29.1	-66.9	-11.0	-33.0	45.5	-28.6	38.4	38.9	4.9	-54.1	-69.3
9.6	29.0	-68.5	-10.9	-33.9	45.6	-28.8	38.4	38.8	5.0	-56.8	-69.1
9.7	29.0	-66.8	-10.7	-25.9	45.6	-28.8	38.5	38.8	4.9	-58.1	-68.3
9.8	29.0	-68.0	-10.6	-21.4	45.7	-29.0	38.5	38.9	4.9	-60.1	-66.0
9.9	29.0	-69.6	-10.5	-18.7	45.8	-29.1	38.5	39.0	4.9	-60.0	-66.4
10.0	29.0	-68.7	-10.5	-16.9	45.9	-29.4	38.4	39.0	4.9	-59.8	-61.7
10.1	29.0	-67.5	-10.4	-15.6	45.8	-29.1	38.4	38.9	4.9	-59.4	-59.7
10.2	29.0	-66.8	-10.4	-14.6	45.7	-29.0	38.4	38.9	4.9	-60.4	-60.0
10.3	29.1	-67.0	-10.4	-13.8	45.7	-28.8	38.5	39.0	4.9	-60.4	-64.8
10.4	29.3	-65.9	-10.5	-13.3	45.7	-28.9	38.4	38.9	5.0	-59.5	-66.4
10.5	29.4	-67.0	-10.7	-12.9	45.6	-28.8	38.4	39.0	4.9	-57.9	-64.0
10.6	29.7	-65.0	-10.9	-12.7	45.5	-28.5	38.4	38.9	5.0	-57.3	-61.3
10.7	29.9	-64.6	-11.3	-12.6	45.3	-28.2	38.4	39.0	5.0	-55.6	-59.8
10.8	30.1	-63.9	-11.8	-12.7	45.2	-28.0	38.5	39.0	5.0	-53.7	-59.0
10.9	30.3	-63.3	-12.4	-12.9	45.3	-28.1	38.6	39.1	5.0	-53.4	-59.7
11.0	30.4	-63.6	-13.1	-13.1	45.4	-28.2	38.7	39.2	5.0	-51.9	-60.1
11.1	30.5	-63.8	-13.9	-13.4	45.3	-28.2	38.7	39.2	5.0	-51.9	-60.8
11.2	30.6	-63.2	-14.7	-13.7	45.2	-28.0	38.7	39.1	5.0	-53.0	-59.9
11.3	30.7	-63.9	-15.5	-13.8	45.0	-27.7	38.7	39.2	5.1	-53.2	-58.6
11.4	30.8	-63.1	-16.1	-13.8	45.1	-27.7	38.7	39.2	5.1	-53.5	-56.3
11.5	30.8	-62.0	-16.4	-13.6	44.9	-27.2	38.6	39.1	5.1	-53.6	-55.1
11.6	30.8	-61.4	-16.2	-13.3	44.6	-26.7	38.5	39.0	5.1	-54.7	-54.3
11.7	30.7	-60.6	-15.7	-13.1	44.2	-26.0	38.4	38.9	5.2	-54.8	-54.3
11.8	30.6	-60.7	-14.9	-12.9	43.9	-25.3	38.2	38.8	5.3	-55.3	-53.1
11.9	30.4	-60.7	-14.0	-12.9	43.7	-25.0	38.1	38.6	5.3	-56.7	-53.4
12.0	30.1	-60.3	-13.0	-13.0	43.4	-24.2	37.7	38.2	5.4	-56.7	-53.7
12.1	29.6	-60.6	-12.1	-13.1	43.0	-23.4	37.5	37.9	5.4	-57.7	-57.4
12.2	29.1	-60.1	-11.2	-13.0	42.9	-23.5	37.1	37.6	5.5	-56.6	-61.6
12.3	28.3	-59.5	-10.4	-12.4	42.7	-23.5	36.8	37.3	5.6	-58.1	-66.4
12.4	27.5	-58.8	-9.6	-11.4	-	-	36.4	37.0	5.7	-59.2	-65.3
12.5	26.3	-58.8	-8.8	-9.9	-	-	35.9	36.6	5.9	-59.7	-59.6
12.6	25.0	-59.2	-8.1	-8.4	-	-	35.3	36.0	6.0	-60.6	-54.9
12.7	23.2	-59.0	-7.4	-6.9	-	-	34.8	35.4	6.2	-62.1	-57.7

MMIC Amplifier

PMA6-123-10W+

Typical Performance Data

Definitions:

Input Return Loss = S11 (dB)

Gain (Power Gain) = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1500\text{ mA}$ @ 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)
9.0	30.4	-66.8	-11.1	-12.4	44.9	-27.5	39.3	40.0	4.1
9.1	30.8	-67.3	-11.0	-13.7	44.8	-27.0	39.5	40.0	4.0
9.2	31.1	-66.9	-11.0	-15.3	44.6	-26.7	39.5	39.5	4.0
9.3	31.3	-66.5	-11.0	-17.1	44.6	-26.5	39.5	39.2	4.0
9.4	31.4	-66.1	-11.0	-19.2	44.7	-26.7	39.4	39.1	3.9
9.5	31.5	-65.5	-10.9	-22.6	44.5	-26.9	39.3	39.1	3.9
9.6	31.5	-66.7	-10.7	-28.0	44.7	-27.0	39.2	39.1	4.0
9.7	31.5	-67.5	-10.6	-34.3	44.7	-26.8	39.4	39.2	4.0
9.8	31.4	-67.0	-10.6	-27.0	44.8	-27.5	39.4	39.2	3.9
9.9	31.4	-67.0	-10.4	-22.2	45.0	-27.7	39.3	39.4	3.9
10.0	31.3	-67.7	-10.2	-19.3	45.1	-28.0	39.2	39.4	3.9
10.1	31.3	-67.6	-10.1	-17.3	45.3	-27.9	39.2	39.4	4.0
10.2	31.3	-66.6	-9.9	-15.8	45.0	-27.7	39.2	39.5	4.0
10.3	31.3	-66.5	-9.8	-14.5	45.3	-27.9	39.2	39.5	4.0
10.4	31.5	-67.4	-9.8	-13.7	45.2	-27.8	39.2	39.5	3.9
10.5	31.7	-67.6	-9.8	-13.2	45.2	-27.7	39.3	39.5	4.0
10.6	31.9	-66.9	-9.8	-12.7	44.8	-27.4	39.2	39.5	4.0
10.7	32.2	-66.2	-9.8	-12.4	44.7	-26.8	39.3	39.5	4.0
10.8	32.5	-65.9	-9.9	-12.4	44.5	-26.8	39.4	39.6	4.0
10.9	32.8	-66.2	-10.2	-12.5	44.7	-27.0	39.4	39.6	4.0
11.0	33.1	-66.0	-10.5	-12.5	44.7	-26.7	39.7	39.8	4.0
11.1	33.3	-66.7	-11.0	-12.8	44.7	-26.8	39.7	39.8	4.0
11.2	33.4	-68.0	-11.5	-12.9	44.6	-26.5	39.7	39.8	4.0
11.3	33.6	-67.9	-11.8	-13.0	44.3	-26.3	39.8	39.9	4.0
11.4	33.8	-64.7	-12.2	-13.1	44.6	-26.5	39.8	39.9	4.0
11.5	34.0	-62.4	-12.9	-13.1	44.6	-26.8	39.8	39.9	4.1
11.6	34.0	-61.4	-13.7	-12.7	44.7	-26.6	39.7	39.8	4.1
11.7	34.0	-62.2	-14.0	-12.3	44.5	-26.4	39.6	39.6	4.2
11.8	34.0	-62.7	-13.9	-11.9	44.3	-26.2	39.5	39.5	4.2
11.9	34.1	-63.0	-13.2	-11.7	44.3	-25.8	39.3	39.3	4.2
12.0	33.9	-63.6	-12.3	-11.7	44.1	-25.8	38.9	38.7	4.3
12.1	33.5	-61.8	-11.8	-11.6	44.1	-25.7	38.5	38.3	4.3
12.2	33.1	-60.6	-11.4	-11.7	44.2	-25.9	38.1	37.9	4.4
12.3	32.5	-60.1	-10.8	-12.0	44.3	-26.1	37.9	37.7	4.5
12.4	31.8	-60.0	-10.1	-11.9	44.4	-26.3	37.4	37.4	4.5
12.5	30.9	-59.6	-9.4	-11.2	44.0	-25.5	36.9	36.9	4.7
12.6	29.7	-59.6	-8.4	-9.8	42.1	-21.6	36.2	36.3	4.8
12.7	28.2	-59.9	-7.6	-8.1	-	-	35.5	35.7	4.9

Typical Performance Data

Definitions:

Input Return Loss = S11 (dB)

Gain (Power Gain) = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1500\text{ mA}$ @ 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)
9.0	25.9	-68.1	-12.3	-14.8	41.8	-21.7	35.4	37.6	6.2
9.1	26.1	-67.4	-12.1	-16.8	41.9	-21.8	35.9	37.7	6.2
9.2	26.3	-67.9	-12.0	-19.3	42.1	-21.7	36.3	37.9	6.2
9.3	26.5	-67.1	-11.8	-22.7	42.7	-23.4	36.6	38.0	6.2
9.4	26.6	-66.1	-11.6	-29.4	43.0	-23.9	36.9	38.2	6.2
9.5	26.6	-67.4	-11.4	-32.1	43.2	-24.5	37.0	38.2	6.1
9.6	26.6	-67.6	-11.3	-25.9	43.3	-24.6	37.0	38.1	6.1
9.7	26.5	-68.5	-11.2	-21.4	43.3	-24.6	37.2	38.2	6.1
9.8	26.5	-67.8	-11.1	-18.6	43.5	-25.0	37.3	38.2	6.2
9.9	26.5	-67.8	-11.0	-16.7	43.5	-25.0	37.4	38.2	6.2
10.0	26.5	-68.0	-11.0	-15.3	43.5	-24.9	37.4	38.2	6.1
10.1	26.5	-67.6	-11.0	-14.3	43.4	-24.6	37.3	38.1	6.2
10.2	26.5	-67.7	-11.1	-13.5	43.4	-24.5	37.2	38.0	6.2
10.3	26.6	-66.9	-11.2	-12.8	43.3	-24.4	37.4	38.1	6.2
10.4	26.7	-66.3	-11.5	-12.5	43.1	-23.9	37.3	38.0	6.2
10.5	26.8	-66.3	-11.8	-12.3	43.3	-24.6	37.3	38.0	6.2
10.6	27.0	-66.1	-12.2	-12.3	43.2	-24.4	37.1	37.9	6.2
10.7	27.1	-65.2	-12.8	-12.4	43.0	-24.0	37.0	37.8	6.2
10.8	27.3	-64.9	-13.5	-12.6	42.5	-23.0	37.0	37.8	6.2
10.9	27.4	-65.0	-14.4	-12.9	42.2	-21.9	37.1	37.9	6.2
11.0	27.5	-64.8	-15.6	-13.2	42.4	-22.8	37.1	37.9	6.3
11.1	27.5	-64.9	-16.9	-13.5	42.1	-22.3	37.0	37.9	6.3
11.2	27.5	-67.0	-18.1	-13.7	41.4	-20.8	36.7	37.7	6.3
11.3	27.5	-65.8	-19.0	-13.8	40.9	-19.5	36.7	37.8	6.3
11.4	27.5	-63.9	-19.8	-13.9	40.7	-19.3	36.7	37.9	6.4
11.5	27.4	-62.0	-19.9	-13.9	40.5	-18.9	36.5	37.9	6.4
11.6	27.3	-61.6	-19.4	-13.6	40.2	-18.5	36.2	37.8	6.4
11.7	27.1	-62.0	-18.1	-13.4	39.7	-17.4	36.1	37.7	6.5
11.8	26.9	-62.4	-16.6	-13.2	39.4	-16.5	35.9	37.7	6.5
11.9	26.7	-62.9	-15.0	-13.0	39.3	-16.6	36.0	37.6	6.6
12.0	26.3	-63.1	-13.6	-12.8	39.2	-16.6	35.9	37.3	6.7
12.1	25.7	-61.9	-12.6	-12.5	38.9	-15.8	35.7	37.1	6.8
12.2	25.1	-61.1	-11.7	-12.0	38.7	-15.4	35.6	36.8	6.9
12.3	24.3	-60.7	-10.8	-11.2	38.6	-15.9	35.4	36.6	7.0
12.4	23.4	-60.8	-10.0	-10.1	-	-	35.2	36.1	7.1
12.5	22.2	-61.0	-9.2	-8.8	-	-	34.9	35.6	7.3
12.6	20.8	-61.9	-8.4	-7.6	-	-	34.3	34.9	7.4
12.7	19.0	-62.8	-7.8	-6.3	-	-	33.7	34.0	7.6

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1350\text{ mA}$, 1500 mA , 1650 mA @ Temperature = $+25^{\circ}\text{C}$

FREQ	Gain @ 1350 mA	Gain @ 1500 mA	Gain @ 1650 mA	1dB Comp. Output @ 1350 mA	1dB Comp. Output @ 1500 mA	1dB Comp. Output @ 1650 mA	P_{SAT} Output @ 1350 mA	P_{SAT} Output @ 1500 mA	P_{SAT} Output @ 1650 mA
(GHz)	(dB)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
9.0	28.2	28.3	28.6	37.4	37.6	37.8	39.0	38.7	38.9
9.1	28.5	28.6	28.9	38.0	38.1	38.5	38.8	38.8	38.9
9.2	28.8	28.8	29.2	38.2	38.3	38.6	39.0	38.8	38.9
9.3	28.9	29.0	29.3	38.4	38.4	38.7	38.9	38.8	38.9
9.4	29.0	29.0	29.4	38.4	38.5	38.7	38.8	38.9	39.0
9.5	29.0	29.1	29.4	38.4	38.4	38.7	38.8	38.9	39.0
9.6	29.0	29.0	29.4	38.4	38.4	38.6	38.7	38.8	38.9
9.7	29.0	29.0	29.4	38.5	38.5	38.7	38.8	38.8	39.0
9.8	29.0	29.0	29.4	38.4	38.5	38.6	38.9	38.9	39.1
9.9	29.0	29.0	29.4	38.4	38.5	38.6	38.9	39.0	39.2
10.0	28.9	29.0	29.3	38.4	38.4	38.6	38.9	39.0	39.1
10.1	29.0	29.0	29.3	38.4	38.4	38.4	38.9	38.9	39.0
10.2	29.0	29.0	29.3	38.3	38.4	38.4	38.9	38.9	39.0
10.3	29.1	29.1	29.4	38.4	38.5	38.4	39.0	39.0	39.0
10.4	29.2	29.3	29.5	38.3	38.4	38.4	38.9	38.9	39.0
10.5	29.4	29.4	29.7	38.3	38.4	38.5	38.9	39.0	39.0
10.6	29.6	29.7	29.9	38.3	38.4	38.4	38.9	38.9	38.9
10.7	29.8	29.9	30.1	38.3	38.4	38.4	38.9	39.0	38.9
10.8	30.0	30.1	30.3	38.4	38.5	38.5	38.9	39.0	39.0
10.9	30.2	30.3	30.5	38.5	38.6	38.6	39.0	39.1	39.1
11.0	30.3	30.4	30.7	38.6	38.7	38.8	39.1	39.2	39.2
11.1	30.5	30.5	30.8	38.6	38.7	38.8	39.1	39.2	39.2
11.2	30.6	30.6	30.9	38.6	38.7	38.7	39.1	39.1	39.1
11.3	30.7	30.7	31.1	38.6	38.7	38.8	39.2	39.2	39.2
11.4	30.7	30.8	31.1	38.6	38.7	38.8	39.2	39.2	39.3
11.5	30.7	30.8	31.2	38.6	38.6	38.8	39.2	39.1	39.2
11.6	30.7	30.8	31.3	38.5	38.5	38.7	39.1	39.0	39.1
11.7	30.7	30.7	31.2	38.4	38.4	38.6	39.0	38.9	39.0
11.8	30.5	30.6	31.2	38.2	38.2	38.5	38.9	38.8	38.9
11.9	30.4	30.4	31.0	38.1	38.1	38.4	38.7	38.6	38.7
12.0	30.0	30.1	30.7	37.7	37.7	37.9	38.3	38.2	38.3
12.1	29.6	29.6	30.2	37.5	37.5	37.6	38.0	37.9	38.0
12.2	29.1	29.1	29.6	37.2	37.1	37.3	37.7	37.6	37.7
12.3	28.4	28.3	28.9	36.9	36.8	37.0	37.5	37.3	37.4
12.4	27.6	27.5	28.0	36.5	36.4	36.5	37.1	37.0	37.1
12.5	26.5	26.3	26.9	36.0	35.9	36.0	36.6	36.6	36.6
12.6	25.2	25.0	25.6	35.4	35.3	35.3	36.0	36.0	35.9
12.7	23.6	23.2	23.9	34.9	34.8	34.8	35.4	35.4	35.3

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1350\text{ mA}$, 1500 mA , 1650 mA @ Temperature = $+25^{\circ}\text{C}$

FREQ	IP-3 @ 1350 mA	IP-3 @ 1500 mA	IP-3 @ 1650 mA	IM3 @ 1350 mA	IM3 @ 1500 mA	IM3 @ 1650 mA	Noise Figure @ 1350 mA	Noise Figure @ 1500 mA	Noise Figure @ 1650 mA
(GHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)	(dB)	(dB)
9.0	44.7	44.8	44.1	-28.2	-27.5	-26.6	4.9	5.0	5.3
9.1	45.1	44.9	44.2	-28.6	-27.5	-26.5	4.8	5.0	5.3
9.2	45.5	45.2	44.5	-29.1	-27.8	-26.9	4.8	5.0	5.3
9.3	45.8	45.2	44.7	-29.6	-28.0	-27.3	4.8	5.0	5.3
9.4	46.0	45.4	44.8	-30.0	-28.4	-27.7	4.8	4.9	5.2
9.5	46.1	45.5	45.0	-30.2	-28.6	-27.9	4.8	4.9	5.3
9.6	46.2	45.6	45.1	-30.3	-28.8	-28.3	4.8	5.0	5.3
9.7	45.9	45.6	45.2	-29.9	-28.8	-28.4	4.8	4.9	5.2
9.8	45.9	45.7	45.4	-29.7	-29.0	-28.8	4.8	4.9	5.2
9.9	46.0	45.8	45.5	-29.9	-29.1	-28.9	4.8	4.9	5.2
10.0	46.0	45.9	45.6	-30.1	-29.4	-29.2	4.8	4.9	5.2
10.1	45.8	45.8	45.6	-29.5	-29.1	-29.2	4.8	4.9	5.2
10.2	45.5	45.7	45.6	-29.1	-29.0	-29.1	4.8	4.9	5.2
10.3	45.5	45.7	45.6	-29.0	-28.8	-29.1	4.8	4.9	5.3
10.4	45.4	45.7	45.6	-29.0	-28.9	-29.2	4.8	5.0	5.3
10.5	45.4	45.6	45.6	-28.8	-28.8	-29.1	4.8	4.9	5.3
10.6	45.3	45.5	45.5	-28.5	-28.5	-28.8	4.8	5.0	5.3
10.7	45.1	45.3	45.2	-28.2	-28.2	-28.6	4.8	5.0	5.3
10.8	45.0	45.2	45.2	-28.0	-28.0	-28.4	4.9	5.0	5.3
10.9	45.0	45.3	45.3	-28.1	-28.1	-28.6	4.9	5.0	5.3
11.0	45.0	45.4	45.2	-28.0	-28.2	-28.5	4.9	5.0	5.3
11.1	45.0	45.3	45.2	-28.0	-28.2	-28.4	4.9	5.0	5.3
11.2	44.9	45.2	45.1	-27.7	-28.0	-28.1	4.9	5.0	5.4
11.3	44.7	45.0	44.8	-27.3	-27.7	-27.7	4.9	5.1	5.4
11.4	44.6	45.1	44.7	-27.2	-27.7	-27.5	5.0	5.1	5.4
11.5	44.4	44.9	44.4	-26.8	-27.2	-26.8	5.0	5.1	5.5
11.6	44.2	44.6	44.1	-26.3	-26.7	-26.1	5.1	5.1	5.5
11.7	43.8	44.2	43.7	-25.6	-26.0	-25.3	5.1	5.2	5.5
11.8	43.5	43.9	43.4	-25.0	-25.3	-24.7	5.1	5.3	5.6
11.9	43.3	43.7	43.1	-24.5	-25.0	-24.2	5.2	5.3	5.7
12.0	43.0	43.4	42.7	-23.9	-24.2	-23.3	5.3	5.4	5.7
12.1	42.5	43.0	42.3	-23.2	-23.4	-22.6	5.3	5.4	5.8
12.2	42.2	42.9	42.1	-22.9	-23.5	-22.4	5.4	5.5	5.9
12.3	-	-	-	-	-	-	5.5	5.6	6.0
12.4	-	-	-	-	-	-	5.6	5.7	6.1
12.5	-	-	-	-	-	-	5.7	5.9	6.2
12.6	-	-	-	-	-	-	5.8	6.0	6.4
12.7	-	-	-	-	-	-	6.0	6.2	6.6

*Typical Performance Data*TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1500\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

Power	IM3 (@10 GHz)	IM3 (@10.5 GHz)	IM3 (@10.9 GHz)	IM3 (@11.3 GHz)	IM3 (@11.7 GHz)
(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
18.0	-44.3	-43.0	-41.7	-40.4	-40.0
19.0	-42.2	-41.2	-40.3	-39.5	-38.5
20.0	-40.3	-39.8	-39.2	-38.5	-37.4
21.0	-38.8	-38.6	-38.0	-37.5	-36.4
22.0	-37.5	-37.5	-37.0	-36.5	-35.4
23.0	-36.3	-36.3	-35.9	-35.5	-34.4
24.0	-35.2	-35.2	-34.8	-34.3	-33.4
25.0	-34.1	-34.2	-33.8	-33.2	-32.4
26.0	-33.2	-33.2	-32.7	-32.3	-31.6
27.0	-32.2	-32.3	-31.7	-31.3	-30.6
28.0	-31.5	-31.3	-30.6	-30.3	-29.6
29.0	-30.4	-30.2	-29.5	-29.3	-28.5
30.0	-29.7	-29.3	-28.7	-28.5	-27.3
31.0	-29.4	-28.8	-28.1	-27.7	-26.0

*Typical Performance Data*TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1500\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

Power	OIP3 (@10 GHz)	OIP3 (@10.5 GHz)	OIP3 (@10.9 GHz)	OIP3 (@11.3 GHz)	OIP3 (@11.7 GHz)
(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
18.0	40.3	39.8	39.2	38.6	38.3
19.0	40.3	39.9	39.5	39.0	38.5
20.0	40.3	40.2	39.9	39.5	38.9
21.0	40.5	40.5	40.3	40.0	39.4
22.0	40.9	41.0	40.8	40.5	39.9
23.0	41.3	41.4	41.2	40.9	40.4
24.0	41.7	41.9	41.6	41.4	40.9
25.0	42.3	42.4	42.1	41.9	41.4
26.0	42.8	42.9	42.6	42.5	42.0
27.0	43.4	43.4	43.1	42.9	42.5
28.0	44.0	43.8	43.6	43.4	43.1
29.0	44.5	44.3	44.0	43.9	43.5
30.0	45.1	44.8	44.6	44.4	43.9
31.0	45.9	45.6	45.3	45.0	44.2

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1500\text{ mA}$ @ 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)
10.0	14.9	29.1	10.9	15.8	30.2	11.7	16.0	30.4
10.0	15.6	29.1	10.9	16.6	30.2	11.7	16.7	30.4
10.0	16.4	29.1	10.9	17.4	30.2	11.7	17.5	30.4
10.0	17.2	29.1	10.9	18.2	30.2	11.7	18.4	30.4
10.0	18.1	29.1	10.9	19.1	30.1	11.7	19.2	30.4
10.0	19.0	29.1	10.9	20.0	30.1	11.7	20.1	30.4
10.0	19.8	29.1	10.9	20.8	30.1	11.7	21.0	30.4
10.0	20.8	29.1	10.9	21.7	30.1	11.7	21.9	30.3
10.0	21.7	29.1	10.9	22.6	30.1	11.7	22.8	30.3
10.0	22.6	29.0	10.9	23.6	30.0	11.7	23.7	30.3
10.0	23.5	29.0	10.9	24.5	30.0	11.7	24.6	30.2
10.0	24.5	29.0	10.9	25.5	30.0	11.7	25.6	30.2
10.0	25.4	29.0	10.9	26.5	30.0	11.7	26.5	30.2
10.0	26.4	29.0	10.9	27.5	30.0	11.7	27.5	30.2
10.0	27.4	29.0	10.9	28.5	30.1	11.7	28.5	30.2
10.0	28.4	29.0	10.9	29.5	30.1	11.7	29.6	30.3
10.0	29.4	29.1	10.9	30.6	30.2	11.7	30.6	30.4
10.0	30.5	29.1	10.9	31.7	30.3	11.7	31.7	30.4
10.0	31.5	29.2	10.9	32.8	30.4	11.7	32.7	30.5
10.0	32.6	29.3	10.9	33.9	30.6	11.7	33.8	30.6
10.0	33.8	29.5	10.9	35.0	30.7	11.7	34.8	30.6
10.0	34.9	29.6	10.9	36.1	30.8	11.7	35.8	30.6
10.0	35.9	29.7	10.9	37.1	30.8	11.7	36.6	30.4
10.0	36.9	29.6	10.9	37.8	30.6	11.7	37.3	30.1
10.0	37.6	29.4	10.9	38.3	30.1	11.7	37.8	29.7
10.0	38.1	28.9	10.9	38.6	29.4	11.7	38.2	29.0
10.0	38.4	28.2	10.9	38.7	28.5	11.7	38.4	28.2
10.0	38.6	27.4	10.9	38.9	27.7	11.7	38.5	27.3
10.0	38.7	26.6	10.9	38.9	26.7	11.7	38.5	26.3
10.0	38.8	25.6	10.9	39.0	25.8	11.7	38.5	25.3
10.0	38.8	24.7	10.9	39.0	24.8	11.7	38.5	24.3
10.0	38.8	23.7	10.9	39.0	23.8	11.7	38.5	23.3
10.0	38.8	22.7	10.9	39.0	22.8	11.7	38.5	22.2
10.0	38.7	21.6	10.9	39.0	21.8	11.7	38.5	21.2
10.0	38.7	20.6	10.9	39.0	20.7	11.7	38.5	20.2
10.0	38.5	19.4	10.9	39.0	19.8	11.7	38.5	19.2
10.5	15.2	29.5	11.3	15.9	30.4			
10.5	16.0	29.5	11.3	16.7	30.4			
10.5	16.8	29.5	11.3	17.5	30.4			
10.5	17.6	29.5	11.3	18.3	30.4			
10.5	18.5	29.5	11.3	19.2	30.4			
10.5	19.3	29.5	11.3	20.1	30.4			
10.5	20.2	29.4	11.3	20.9	30.3			
10.5	21.1	29.4	11.3	21.8	30.3			
10.5	22.0	29.4	11.3	22.7	30.3			
10.5	23.0	29.4	11.3	23.7	30.3			
10.5	23.9	29.4	11.3	24.6	30.2			
10.5	24.8	29.3	11.3	25.6	30.2			
10.5	25.8	29.3	11.3	26.5	30.2			
10.5	26.8	29.3	11.3	27.5	30.3			
10.5	27.8	29.4	11.3	28.6	30.3			
10.5	28.8	29.4	11.3	29.6	30.4			
10.5	29.8	29.4	11.3	30.7	30.5			
10.5	30.9	29.5	11.3	31.8	30.6			
10.5	31.9	29.6	11.3	32.9	30.7			
10.5	33.0	29.7	11.3	34.0	30.8			
10.5	34.2	29.8	11.3	35.1	30.9			
10.5	35.3	30.0	11.3	36.1	30.9			
10.5	36.3	30.0	11.3	37.0	30.9			
10.5	37.2	29.9	11.3	37.8	30.6			
10.5	37.8	29.6	11.3	38.3	30.1			
10.5	38.2	29.0	11.3	38.6	29.5			
10.5	38.5	28.3	11.3	38.8	28.6			
10.5	38.6	27.4	11.3	38.9	27.7			
10.5	38.7	26.5	11.3	38.9	26.8			
10.5	38.8	25.6	11.3	39.0	25.8			
10.5	38.8	24.7	11.3	39.0	24.8			
10.5	38.8	23.7	11.3	39.0	23.7			
10.5	38.8	22.7	11.3	39.0	22.7			
10.5	38.8	21.7	11.3	39.0	21.7			
10.5	38.8	20.8	11.3	39.0	20.7			
10.5	38.8	19.8	11.3	39.0	19.7			

*Typical Performance Data*TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1500\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

FREQ	P _{OUT}	Phase	FREQ	P _{OUT}	Phase	FREQ	P _{OUT}	Phase
(GHz)	(dBm)	(°)	(GHz)	(dBm)	(°)	(GHz)	(dBm)	(°)
10.0	14.9	0.0	10.9	15.8	0.0	11.7	16.0	0.0
10.0	15.6	0.0	10.9	16.6	0.0	11.7	16.7	0.1
10.0	16.4	0.1	10.9	17.4	0.1	11.7	17.5	0.1
10.0	17.2	0.1	10.9	18.2	0.1	11.7	18.4	0.2
10.0	18.1	0.2	10.9	19.1	0.2	11.7	19.2	0.3
10.0	19.0	0.3	10.9	20.0	0.3	11.7	20.1	0.4
10.0	19.8	0.3	10.9	20.8	0.4	11.7	21.0	0.5
10.0	20.8	0.5	10.9	21.7	0.6	11.7	21.9	0.7
10.0	21.7	0.7	10.9	22.6	0.8	11.7	22.8	1.0
10.0	22.6	0.9	10.9	23.6	1.1	11.7	23.7	1.3
10.0	23.5	1.2	10.9	24.5	1.4	11.7	24.6	1.7
10.0	24.5	1.5	10.9	25.5	1.8	11.7	25.6	2.1
10.0	25.4	1.9	10.9	26.5	2.2	11.7	26.5	2.6
10.0	26.4	2.4	10.9	27.5	2.6	11.7	27.5	3.1
10.0	27.4	2.9	10.9	28.5	3.1	11.7	28.5	3.6
10.0	28.4	3.4	10.9	29.5	3.5	11.7	29.6	4.2
10.0	29.4	3.9	10.9	30.6	4.1	11.7	30.6	4.9
10.0	30.5	4.5	10.9	31.7	4.9	11.7	31.7	5.7
10.0	31.5	5.1	10.9	32.8	5.6	11.7	32.7	6.8
10.0	32.6	5.8	10.9	33.9	6.7	11.7	33.8	8.0
10.0	33.8	6.7	10.9	35.0	8.0	11.7	34.8	9.5
10.0	34.9	7.8	10.9	36.1	9.1	11.7	35.8	11.0
10.0	35.9	8.9	10.9	37.1	10.4	11.7	36.6	12.8
10.0	36.9	9.8	10.9	37.8	11.4	11.7	37.3	14.8
10.0	37.6	10.5	10.9	38.3	12.8	11.7	37.8	17.3
10.0	38.1	10.7	10.9	38.6	14.7	11.7	38.2	20.3
10.0	38.4	11.1	10.9	38.7	17.4	11.7	38.4	24.0
10.0	38.6	11.8	10.9	38.9	20.8	11.7	38.5	28.4
10.0	38.7	13.3	10.9	38.9	24.4	11.7	38.5	33.2
10.0	38.8	15.1	10.9	39.0	28.6	11.7	38.5	38.4
10.0	38.8	17.5	10.9	39.0	32.6	11.7	38.5	43.7
10.0	38.8	20.1	10.9	39.0	36.5	11.7	38.5	48.5
10.0	38.8	22.4	10.9	39.0	40.0	11.7	38.5	53.3
10.0	38.7	24.7	10.9	39.0	42.6	11.7	38.5	58.2
10.0	38.7	26.6	10.9	39.0	45.2	11.7	38.5	62.5
10.0	38.5	29.0	10.9	39.0	47.3	11.7	38.5	66.0
10.5	15.2	0.0	11.3	15.9	0.0			
10.5	16.0	0.0	11.3	16.7	0.0			
10.5	16.8	0.0	11.3	17.5	0.1			
10.5	17.6	0.1	11.3	18.3	0.1			
10.5	18.5	0.1	11.3	19.2	0.2			
10.5	19.3	0.2	11.3	20.1	0.3			
10.5	20.2	0.3	11.3	20.9	0.5			
10.5	21.1	0.4	11.3	21.8	0.7			
10.5	22.0	0.6	11.3	22.7	0.9			
10.5	23.0	0.8	11.3	23.7	1.2			
10.5	23.9	1.1	11.3	24.6	1.6			
10.5	24.8	1.4	11.3	25.6	2.0			
10.5	25.8	1.8	11.3	26.5	2.4			
10.5	26.8	2.2	11.3	27.5	2.9			
10.5	27.8	2.6	11.3	28.6	3.3			
10.5	28.8	3.1	11.3	29.6	3.9			
10.5	29.8	3.5	11.3	30.7	4.5			
10.5	30.9	4.1	11.3	31.8	5.3			
10.5	31.9	4.7	11.3	32.9	6.2			
10.5	33.0	5.6	11.3	34.0	7.4			
10.5	34.2	6.5	11.3	35.1	8.7			
10.5	35.3	7.6	11.3	36.1	10.0			
10.5	36.3	8.8	11.3	37.0	11.4			
10.5	37.2	9.7	11.3	37.8	12.8			
10.5	37.8	10.4	11.3	38.3	14.6			
10.5	38.2	11.2	11.3	38.6	17.5			
10.5	38.5	12.5	11.3	38.8	21.1			
10.5	38.6	14.5	11.3	38.9	25.4			
10.5	38.7	17.1	11.3	38.9	30.3			
10.5	38.8	20.1	11.3	39.0	35.2			
10.5	38.8	23.4	11.3	39.0	39.9			
10.5	38.8	26.7	11.3	39.0	43.9			
10.5	38.8	29.7	11.3	39.0	47.5			
10.5	38.8	32.6	11.3	39.0	50.6			
10.5	38.8	35.1	11.3	39.0	53.5			
10.5	38.8	37.4	11.3	39.0	56.4			

MMIC Amplifier

PMA6-123-10W+

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1500\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

FREQ	P _{out}	2nd Harmonics	FREQ	P _{out}	3rd Harmonics
(GHz)	(dBm)	(dB)	(GHz)	(dBm)	(dB)
10.0	18.0	-56.5	10.0	18.0	-73.5
10.0	19.0	-57.7	10.0	19.0	-73.6
10.0	20.0	-58.9	10.0	20.0	-73.5
10.0	21.0	-59.0	10.0	21.0	-74.1
10.0	22.0	-62.1	10.0	22.0	-74.3
10.0	23.0	-60.2	10.0	23.0	-75.8
10.0	24.0	-61.5	10.0	24.0	-78.3
10.0	25.0	-62.0	10.0	25.0	-78.4
10.0	26.0	-60.7	10.0	26.0	-82.6
10.0	27.0	-66.0	10.0	27.0	-80.5
10.0	27.0	-64.2	10.0	27.0	-76.8
10.0	28.0	-63.6	10.0	28.0	-73.6
10.0	30.0	-61.7	10.0	30.0	-73.1
10.0	31.0	-59.8	10.0	31.0	-72.6
10.0	32.0	-59.3	10.0	32.0	-72.8
10.0	33.0	-58.9	10.0	33.0	-71.4
10.0	34.0	-58.2	10.0	34.0	-68.5
10.0	34.0	-56.3	10.0	34.0	-67.2
10.0	35.0	-58.1	10.0	35.0	-67.9
10.0	35.0	-59.0	10.0	35.0	-68.6
10.0	36.0	-57.6	10.0	36.0	-68.9
10.0	36.0	-57.8	10.0	36.0	-68.6
10.0	36.0	-57.6	10.0	36.0	-67.6
10.0	36.0	-57.6	10.0	36.0	-67.0
10.0	36.0	-57.1	10.0	36.0	-66.9
10.0	36.0	-56.8	10.0	36.0	-66.7
10.5	18.0	-63.3	10.5	18.0	-72.9
10.5	19.0	-63.8	10.5	19.0	-73.7
10.5	20.0	-66.8	10.5	20.0	-74.1
10.5	21.0	-63.0	10.5	21.0	-76.2
10.5	22.0	-66.0	10.5	22.0	-76.9
10.5	23.0	-66.9	10.5	23.0	-78.0
10.5	24.0	-66.2	10.5	24.0	-78.5
10.5	25.0	-65.2	10.5	25.0	-80.0
10.5	26.0	-64.4	10.5	26.0	-79.2
10.5	27.0	-67.0	10.5	27.0	-80.6
10.5	28.0	-65.4	10.5	28.0	-80.9
10.5	29.0	-64.0	10.5	29.0	-77.6
10.5	30.0	-64.0	10.5	30.0	-77.5
10.5	31.0	-62.3	10.5	31.0	-77.3
10.5	32.0	-61.5	10.5	32.0	-77.5
10.5	33.0	-61.2	10.5	33.0	-77.2
10.5	34.0	-60.1	10.5	34.0	-74.2
10.5	35.0	-59.3	10.5	35.0	-71.2
10.5	35.0	-59.3	10.5	35.0	-68.2
10.5	36.0	-58.8	10.5	36.0	-66.1
10.5	36.0	-58.5	10.5	36.0	-64.5
10.5	36.0	-58.5	10.5	36.0	-63.4
10.5	36.0	-58.0	10.5	36.0	-62.7
10.5	36.0	-58.1	10.5	36.0	-62.2
10.5	36.0	-58.2	10.5	36.0	-61.6
10.5	36.0	-58.3	10.5	36.0	-61.3
10.5	36.0	-57.7	10.5	36.0	-61.0
10.9	19.0	-66.3	10.9	19.0	-69.0
10.9	20.0	-68.2	10.9	20.0	-68.0
10.9	21.0	-65.6	10.9	21.0	-69.2
10.9	22.0	-66.9	10.9	22.0	-68.7
10.9	23.0	-63.9	10.9	23.0	-69.4
10.9	24.0	-64.6	10.9	24.0	-71.6
10.9	25.0	-62.4	10.9	25.0	-73.1
10.9	26.0	-61.9	10.9	26.0	-74.6
10.9	27.0	-61.5	10.9	27.0	-77.4
10.9	28.0	-60.3	10.9	28.0	-72.2
10.9	29.0	-59.7	10.9	29.0	-69.8
10.9	30.0	-58.8	10.9	30.0	-67.0
10.9	31.0	-58.1	10.9	31.0	-66.8
10.9	32.0	-57.5	10.9	32.0	-66.3
10.9	33.0	-56.7	10.9	33.0	-66.2
10.9	34.0	-55.9	10.9	34.0	-63.4
10.9	35.0	-55.4	10.9	35.0	-61.7
10.9	35.0	-54.8	10.9	35.0	-61.3
10.9	36.0	-54.9	10.9	36.0	-62.0
10.9	36.0	-54.8	10.9	36.0	-62.3
10.9	36.0	-54.7	10.9	36.0	-62.1
10.9	36.0	-54.8	10.9	36.0	-61.7
10.9	36.0	-54.8	10.9	36.0	-61.7
10.9	36.0	-54.9	10.9	36.0	-61.2
10.9	36.0	-54.9	10.9	36.0	-60.9
10.9	36.0	-54.8	10.9	36.0	-60.6
10.9	36.0	-54.9	10.9	36.0	-60.8
11.3	20.0	-68.0	11.3	20.0	-64.5
11.3	21.0	-65.3	11.3	21.0	-64.7
11.3	22.0	-68.4	11.3	22.0	-63.9
11.3	23.0	-64.7	11.3	23.0	-66.3
11.3	23.0	-64.8	11.3	23.0	-65.9
11.3	24.0	-63.4	11.3	24.0	-68.6
11.3	25.0	-63.9	11.3	25.0	-68.2
11.3	26.0	-62.8	11.3	26.0	-68.6
11.3	27.0	-61.4	11.3	27.0	-66.1
11.3	28.0	-61.3	11.3	28.0	-64.8
11.3	29.0	-60.6	11.3	29.0	-63.9
11.3	30.0	-59.7	11.3	30.0	-63.3
11.3	31.0	-58.7	11.3	31.0	-63.3
11.3	32.0	-57.8	11.3	32.0	-62.2
11.3	33.0	-56.8	11.3	33.0	-59.8
11.3	34.0	-56.1	11.3	34.0	-58.1
11.3	35.0	-55.2	11.3	35.0	-57.3
11.3	36.0	-54.8	11.3	36.0	-56.2
11.3	36.0	-54.5	11.3	36.0	-55.0
11.3	36.0	-54.3	11.3	36.0	-54.0
11.3	36.0	-54.2	11.3	36.0	-53.1
11.3	37.0	-54.1	11.3	37.0	-52.4
11.3	37.0	-54.2	11.3	37.0	-52.0
11.3	37.0	-54.1	11.3	37.0	-51.5
11.3	37.0	-54.1	11.3	37.0	-51.3
11.3	37.0	-54.2	11.3	37.0	-51.0
11.3	37.0	-54.1	11.3	37.0	-50.8
11.7	20.0	-68.0	11.7	20.0	-62.5
11.7	21.0	-67.4	11.7	21.0	-62.5
11.7	22.0	-66.0	11.7	22.0	-63.1
11.7	23.0	-65.5	11.7	23.0	-64.4
11.7	24.0	-66.6	11.7	24.0	-66.7
11.7	25.0	-65.4	11.7	25.0	-69.3
11.7	26.0	-63.5	11.7	26.0	-70.9
11.7	26.0	-62.1	11.7	26.0	-64.8
11.7	27.0	-61.1	11.7	27.0	-60.4
11.7	28.0	-60.4	11.7	28.0	-59.0
11.7	29.0	-59.3	11.7	29.0	-59.2
11.7	30.0	-58.8	11.7	30.0	-60.0
11.7	31.0	-57.9	11.7	31.0	-58.8
11.7	32.0	-56.9	11.7	32.0	-55.8
11.7	33.0	-56.1	11.7	33.0	-53.6
11.7	34.0	-55.1	11.7	34.0	-53.2
11.7	35.0	-54.6	11.7	35.0	-52.8
11.7	36.0	-54.1	11.7	36.0	-51.7
11.7	36.0	-54.0	11.7	36.0	-51.2
11.7	36.0	-53.9	11.7	36.0	-51.1
11.7	37.0	-54.0	11.7	37.0	-51.0
11.7	37.0	-54.2	11.7	37.0	-50.9
11.7	37.0	-54.4	11.7	37.0	-50.9
11.7	37.0	-54.4	11.7	37.0	-50.8
11.7	37.0	-54.5	11.7	37.0	-50.6
11.7	37.0	-54.5	11.7	37.0	-50.4
11.7	37.0	-54.6	11.7	37.0	-50.4

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1500\text{ mA}$ @ Temperature = $+25^\circ\text{C}$

Power	P_{DISS} (@10 GHz)	P_{DISS} (@10.5 GHz)	P_{DISS} (@10.9 GHz)	P_{DISS} (@11.3 GHz)	P_{DISS} (@11.7 GHz)	PAE (@10 GHz)	PAE (@10.5 GHz)	PAE (@10.9 GHz)	PAE (@11.3 GHz)	PAE (@11.7 GHz)
(dBm)	(W)	(W)	(W)	(W)	(W)	(%)	(%)	(%)	(%)	(%)
16.0	11.9	11.9	12.0	12.0	12.0	0.3	0.3	0.3	0.3	0.3
16.7	11.9	12.0	12.0	12.0	12.0	0.3	0.3	0.4	0.4	0.4
17.5	11.9	12.0	12.0	12.0	12.0	0.4	0.4	0.5	0.5	0.5
18.4	11.9	12.0	12.1	12.1	12.0	0.4	0.5	0.5	0.6	0.6
19.2	11.9	12.0	12.1	12.1	12.1	0.5	0.6	0.7	0.7	0.7
20.1	12.0	12.0	12.2	12.2	12.1	0.7	0.7	0.8	0.8	0.8
21.0	12.0	12.0	12.2	12.3	12.1	0.8	0.9	1.0	1.0	1.0
21.9	12.0	12.1	12.3	12.4	12.2	1.0	1.1	1.2	1.2	1.2
22.8	12.1	12.2	12.5	12.5	12.3	1.2	1.3	1.5	1.5	1.5
23.7	12.1	12.3	12.6	12.7	12.5	1.5	1.6	1.8	1.8	1.8
24.6	12.2	12.4	12.8	13.0	12.7	1.8	1.9	2.1	2.2	2.2
25.6	12.3	12.6	13.1	13.3	12.9	2.2	2.4	2.6	2.6	2.7
26.5	12.5	12.8	13.5	13.6	13.2	2.7	2.9	3.2	3.2	3.3
27.5	12.8	13.1	13.8	14.0	13.5	3.3	3.5	3.9	3.9	4.0
28.5	13.0	13.4	14.3	14.5	13.9	4.0	4.3	4.7	4.7	4.9
29.6	13.3	13.7	14.7	15.0	14.3	4.9	5.2	5.7	5.8	5.9
30.6	13.7	14.1	15.3	15.6	14.8	6.0	6.4	7.0	7.0	7.2
31.7	14.1	14.5	15.8	16.2	15.3	7.3	7.7	8.4	8.5	8.7
32.7	14.5	15.0	16.4	16.8	15.9	9.0	9.4	10.3	10.3	10.6
33.8	14.9	15.5	17.1	17.5	16.5	10.9	11.5	12.5	12.5	12.7
34.8	15.4	16.0	17.8	18.2	17.1	13.4	14.0	15.1	15.0	15.1
35.8	15.8	16.5	18.4	19.0	17.7	16.2	17.0	18.1	17.7	17.7
36.6	16.3	16.9	19.1	19.6	18.3	19.4	20.1	21.0	20.4	20.1
37.3	16.6	17.4	19.6	20.3	19.0	22.7	23.2	23.5	22.6	22.1
37.8	16.9	17.7	20.0	20.9	19.6	25.4	25.5	25.2	24.3	23.6
38.2	17.1	17.9	20.2	21.2	20.2	27.5	27.0	26.2	25.3	24.4
38.4	17.1	17.9	20.3	21.3	20.6	28.9	28.1	26.9	26.0	24.9
38.5	17.1	17.9	20.4	21.4	20.9	29.9	28.9	27.3	26.3	25.1
38.5	17.0	17.9	20.5	21.6	21.1	30.5	29.3	27.4	26.5	25.1
38.5	17.0	18.0	20.8	21.7	21.2	30.8	29.5	27.4	26.5	25.1
38.5	17.1	18.2	21.0	21.9	21.4	30.7	29.3	27.2	26.4	25.0
38.5	17.4	18.5	21.4	22.1	21.6	30.3	29.1	26.9	26.2	24.8
38.5	17.7	18.8	21.7	22.4	21.7	29.8	28.8	26.6	26.0	24.6
38.5	18.1	19.1	22.0	22.5	21.8	29.1	28.3	26.3	25.8	24.5
38.5	18.4	19.5	22.2	22.6	22.0	28.3	27.9	26.0	25.6	24.3
38.5	18.7	19.7	22.4	22.7	22.1	27.3	27.5	25.7	25.5	24.1

MMIC Amplifier

PMA6-123-10W+

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1500\text{ mA}$ @ Temperature = +25°C

P_{IN}	P_{OUT} (@10 GHz)	P_{OUT} (@10.5 GHz)	P_{OUT} (@10.9 GHz)	P_{OUT} (@11.3 GHz)	P_{OUT} (@11.7 GHz)	I_{DD} (@10 GHz)	I_{DD} (@10.5 GHz)	I_{DD} (@10.9 GHz)	I_{DD} (@11.3 GHz)	I_{DD} (@11.7 GHz)
(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(mA)	(mA)	(mA)	(mA)	(mA)
-14.0	14.9	15.2	15.8	15.9	16.0	1.5	1.5	1.5	1.5	1.5
-13.2	15.6	16.0	16.6	16.7	16.7	1.5	1.5	1.5	1.5	1.5
-12.5	16.4	16.8	17.4	17.5	17.5	1.5	1.5	1.5	1.5	1.5
-11.6	17.2	17.6	18.2	18.3	18.4	1.5	1.5	1.5	1.5	1.5
-10.8	18.1	18.5	19.1	19.2	19.2	1.5	1.5	1.5	1.5	1.5
-9.9	19.0	19.3	20.0	20.1	20.1	1.5	1.5	1.5	1.5	1.5
-9.0	19.8	20.2	20.8	20.9	21.0	1.5	1.5	1.5	1.6	1.5
-8.1	20.8	21.1	21.7	21.8	21.9	1.5	1.5	1.6	1.6	1.6
-7.2	21.7	22.0	22.6	22.7	22.8	1.5	1.5	1.6	1.6	1.6
-6.2	22.6	23.0	23.6	23.7	23.7	1.5	1.6	1.6	1.6	1.6
-5.3	23.5	23.9	24.5	24.6	24.6	1.6	1.6	1.6	1.7	1.6
-4.3	24.5	24.8	25.5	25.6	25.6	1.6	1.6	1.7	1.7	1.7
-3.3	25.4	25.8	26.5	26.5	26.5	1.6	1.7	1.7	1.8	1.7
-2.4	26.4	26.8	27.5	27.5	27.5	1.7	1.7	1.8	1.8	1.8
-1.4	27.4	27.8	28.5	28.6	28.5	1.7	1.7	1.9	1.9	1.8
-0.4	28.4	28.8	29.5	29.6	29.6	1.8	1.8	2.0	2.0	1.9
0.6	29.4	29.8	30.6	30.7	30.6	1.8	1.9	2.1	2.1	2.0
1.6	30.5	30.9	31.7	31.8	31.7	1.9	2.0	2.2	2.2	2.1
2.5	31.5	31.9	32.8	32.9	32.7	2.0	2.1	2.3	2.3	2.2
3.5	32.6	33.0	33.9	34.0	33.8	2.1	2.2	2.4	2.5	2.4
4.5	33.8	34.2	35.0	35.1	34.8	2.2	2.3	2.6	2.7	2.5
5.5	34.9	35.3	36.1	36.1	35.8	2.4	2.5	2.8	2.9	2.7
6.5	35.9	36.3	37.1	37.0	36.6	2.5	2.7	3.0	3.1	2.9
7.5	36.9	37.2	37.8	37.8	37.3	2.7	2.8	3.2	3.3	3.0
8.5	37.6	37.8	38.3	38.3	37.8	2.8	3.0	3.4	3.5	3.2
9.4	38.1	38.2	38.6	38.6	38.2	3.0	3.1	3.4	3.6	3.4
10.4	38.4	38.5	38.7	38.8	38.4	3.0	3.1	3.5	3.6	3.4
11.4	38.6	38.6	38.9	38.9	38.5	3.0	3.1	3.5	3.6	3.5
12.4	38.7	38.7	38.9	38.9	38.5	3.1	3.2	3.5	3.7	3.5
13.4	38.8	38.8	39.0	39.0	38.5	3.1	3.2	3.6	3.7	3.5
14.4	38.8	38.8	39.0	39.0	38.5	3.1	3.2	3.6	3.7	3.6
15.4	38.8	38.8	39.0	39.0	38.5	3.1	3.3	3.7	3.8	3.6
16.3	38.8	38.8	39.0	39.0	38.5	3.2	3.3	3.7	3.8	3.6
17.3	38.7	38.8	39.0	39.0	38.5	3.2	3.3	3.7	3.8	3.6
18.3	38.7	38.8	39.0	39.0	38.5	3.2	3.4	3.8	3.8	3.6
19.3	38.5	38.8	39.0	39.0	38.5	3.2	3.4	3.8	3.8	3.6

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1500\text{ mA}$ @ Temperature = +25°C

Power	P_{DISS} (@10 GHz)	P_{DISS} (@10.5 GHz)	P_{DISS} (@10.9 GHz)	P_{DISS} (@11.3 GHz)	P_{DISS} (@11.7 GHz)	PAE (@10 GHz)	PAE (@10.5 GHz)	PAE (@10.9 GHz)	PAE (@11.3 GHz)	PAE (@11.7 GHz)
(dBm)	(W)	(W)	(W)	(W)	(W)	(%)	(%)	(%)	(%)	(%)
-14.0	11.9	11.9	12.0	12.0	12.0	0.3	0.3	0.3	0.3	0.3
-13.2	11.9	12.0	12.0	12.0	12.0	0.3	0.3	0.4	0.4	0.4
-12.5	11.9	12.0	12.0	12.0	12.0	0.4	0.4	0.5	0.5	0.5
-11.6	11.9	12.0	12.1	12.1	12.0	0.4	0.5	0.5	0.6	0.6
-10.8	11.9	12.0	12.1	12.1	12.1	0.5	0.6	0.7	0.7	0.7
-9.9	12.0	12.0	12.2	12.2	12.1	0.7	0.7	0.8	0.8	0.8
-9.0	12.0	12.0	12.2	12.3	12.1	0.8	0.9	1.0	1.0	1.0
-8.1	12.0	12.1	12.3	12.4	12.2	1.0	1.1	1.2	1.2	1.2
-7.2	12.1	12.2	12.5	12.5	12.3	1.2	1.3	1.5	1.5	1.5
-6.2	12.1	12.3	12.6	12.7	12.5	1.5	1.6	1.8	1.8	1.8
-5.3	12.2	12.4	12.8	13.0	12.7	1.8	1.9	2.1	2.2	2.2
-4.3	12.3	12.6	13.1	13.3	12.9	2.2	2.4	2.6	2.6	2.7
-3.3	12.5	12.8	13.5	13.6	13.2	2.7	2.9	3.2	3.2	3.3
-2.4	12.8	13.1	13.8	14.0	13.5	3.3	3.5	3.9	3.9	4.0
-1.4	13.0	13.4	14.3	14.5	13.9	4.0	4.3	4.7	4.7	4.9
-0.4	13.3	13.7	14.7	15.0	14.3	4.9	5.2	5.7	5.8	5.9
0.6	13.7	14.1	15.3	15.6	14.8	6.0	6.4	7.0	7.0	7.2
1.6	14.1	14.5	15.8	16.2	15.3	7.3	7.7	8.4	8.5	8.7
2.5	14.5	15.0	16.4	16.8	15.9	9.0	9.4	10.3	10.3	10.6
3.5	14.9	15.5	17.1	17.5	16.5	10.9	11.5	12.5	12.5	12.7
4.5	15.4	16.0	17.8	18.2	17.1	13.4	14.0	15.1	15.0	15.1
5.5	15.8	16.5	18.4	19.0	17.7	16.2	17.0	18.1	17.7	17.7
6.5	16.3	16.9	19.1	19.6	18.3	19.4	20.1	21.0	20.4	20.1
7.5	16.6	17.4	19.6	20.3	19.0	22.7	23.2	23.5	22.6	22.1
8.5	16.9	17.7	20.0	20.9	19.6	25.4	25.5	25.2	24.3	23.6
9.4	17.1	17.9	20.2	21.2	20.2	27.5	27.0	26.2	25.3	24.4
10.4	17.1	17.9	20.3	21.3	20.6	28.9	28.1	26.9	26.0	24.9
11.4	17.1	17.9	20.4	21.4	20.9	29.9	28.9	27.3	26.3	25.1
12.4	17.0	17.9	20.5	21.6	21.1	30.5	29.3	27.4	26.5	25.1
13.4	17.0	18.0	20.8	21.7	21.2	30.8	29.5	27.4	26.5	25.1
14.4	17.1	18.2	21.0	21.9	21.4	30.7	29.3	27.2	26.4	25.0
15.4	17.4	18.5	21.4	22.1	21.6	30.3	29.1	26.9	26.2	24.8
16.3	17.7	18.8	21.7	22.4	21.7	29.8	28.8	26.6	26.0	24.6
17.3	18.1	19.1	22.0	22.5	21.8	29.1	28.3	26.3	25.8	24.5
18.3	18.4	19.5	22.2	22.6	22.0	28.3	27.9	26.0	25.6	24.3
19.3	18.7	19.7	22.4	22.7	22.1	27.3	27.5	25.7	25.5	24.1

*Typical Performance Data*TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1500\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

FREQ	P_{DISS} (@ P_{SAT})	PAE (@ P_{SAT})
(GHz)	(W)	(%)
9.0	24.4	23.4
9.1	23.7	24.1
9.2	22.4	25.2
9.3	20.9	26.6
9.4	19.6	28.2
9.5	18.9	28.9
9.6	18.8	28.6
9.7	18.7	29.2
9.8	18.3	29.8
9.9	17.4	31.1
10.0	17.2	31.4
10.1	17.8	30.5
10.2	18.5	29.6
10.3	18.7	29.7
10.4	18.9	29.2
10.5	18.8	29.5
10.6	19.6	28.5
10.7	20.4	27.9
10.8	20.8	27.5
10.9	20.6	28.1
11.0	20.5	28.7
11.1	21.1	28.0
11.2	21.8	27.2
11.3	22.0	27.2
11.4	21.9	27.4
11.5	21.7	27.2
11.6	22.0	26.3
11.7	22.2	25.7
11.8	22.2	25.2
11.9	21.9	24.8
12.0	21.4	23.5
12.1	21.2	22.4
12.2	20.8	21.6
12.3	20.3	21.0
12.4	19.8	20.1
12.5	19.4	18.8
12.6	19.1	17.0
12.7	18.7	15.3

MMIC Amplifier

PMA6-123-10W+

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1500\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

P_{OUT}	I_{DD} @10 GHz	I_{DD} @10.5 GHz	I_{DD} @10.9 GHz	I_{DD} @11.3 GHz	I_{DD} @11.7 GHz
(dBm)	(mA)	(mA)	(mA)	(mA)	(mA)
16.0	1.5	1.5	1.5	1.5	1.5
16.7	1.5	1.5	1.5	1.5	1.5
17.5	1.5	1.5	1.5	1.5	1.5
18.4	1.5	1.5	1.5	1.5	1.5
19.2	1.5	1.5	1.5	1.5	1.5
20.1	1.5	1.5	1.5	1.5	1.5
21.0	1.5	1.5	1.5	1.6	1.5
21.9	1.5	1.5	1.6	1.6	1.6
22.8	1.5	1.5	1.6	1.6	1.6
23.7	1.5	1.6	1.6	1.6	1.6
24.6	1.6	1.6	1.6	1.7	1.6
25.6	1.6	1.6	1.7	1.7	1.7
26.5	1.6	1.7	1.7	1.8	1.7
27.5	1.7	1.7	1.8	1.8	1.8
28.5	1.7	1.7	1.9	1.9	1.8
29.6	1.8	1.8	2.0	2.0	1.9
30.6	1.8	1.9	2.1	2.1	2.0
31.7	1.9	2.0	2.2	2.2	2.1
32.7	2.0	2.1	2.3	2.3	2.2
33.8	2.1	2.2	2.4	2.5	2.4
34.8	2.2	2.3	2.6	2.7	2.5
35.8	2.4	2.5	2.8	2.9	2.7
36.6	2.5	2.7	3.0	3.1	2.9
37.3	2.7	2.8	3.2	3.3	3.0
37.8	2.8	3.0	3.4	3.5	3.2
38.2	3.0	3.1	3.4	3.6	3.4
38.4	3.0	3.1	3.5	3.6	3.4
38.5	3.0	3.1	3.5	3.6	3.5
38.5	3.1	3.2	3.5	3.7	3.5
38.5	3.1	3.2	3.6	3.7	3.5
38.5	3.1	3.2	3.6	3.7	3.6
38.5	3.1	3.3	3.7	3.8	3.6
38.5	3.2	3.3	3.7	3.8	3.6
38.5	3.2	3.3	3.7	3.8	3.6
38.5	3.2	3.4	3.8	3.8	3.6
38.5	3.2	3.4	3.8	3.8	3.6

Typical Performance Data

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

FREQ	-40°C to +95°C
GHz	°C
9.0	-0.034
9.1	-0.035
9.2	-0.035
9.3	-0.036
9.4	-0.036
9.5	-0.037
9.6	-0.037
9.7	-0.037
9.8	-0.036
9.9	-0.036
10.0	-0.036
10.1	-0.036
10.2	-0.036
10.3	-0.035
10.4	-0.036
10.5	-0.036
10.6	-0.037
10.7	-0.038
10.8	-0.039
10.9	-0.040
11.0	-0.042
11.1	-0.043
11.2	-0.044
11.3	-0.045
11.4	-0.047
11.5	-0.049
11.6	-0.050
11.7	-0.051
11.8	-0.053
11.9	-0.055
12.0	-0.057
12.1	-0.058
12.2	-0.059
12.3	-0.061
12.4	-0.062
12.5	-0.064
12.6	-0.066
12.7	-0.068