

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{D1} = V_{D2} = V_{D3} = +4\text{ V}$, $I_{D1} = 11.1\text{ mA}$, $I_{D2} = 14.7\text{ mA}$, $I_{D3} = 26.8\text{ mA}$ @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	3dB Comp. Output	Noise Figure	IP-3 Output
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)	(dBm)
6.0	22.5	-68.5	-16.5	-10.3	101.1	0.9	7.9	9.3	2.4	18.4
6.3	22.6	-66.5	-17.0	-10.7	77.8	0.9	7.9	9.2	2.3	18.2
6.6	22.7	-68.6	-16.7	-11.0	104.3	0.9	8.1	9.3	2.2	18.4
6.9	22.7	-66.7	-16.0	-11.0	78.5	0.9	8.2	9.2	2.2	18.9
7.2	22.6	-65.9	-15.4	-11.0	71.3	0.9	8.0	9.2	2.2	19.4
7.5	22.5	-65.3	-15.2	-10.7	68.0	0.9	8.2	9.3	2.1	19.0
7.8	22.4	-66.8	-15.2	-10.5	88.9	0.9	8.0	9.3	2.1	20.0
8.1	22.3	-66.3	-15.4	-10.3	79.0	0.9	8.0	9.4	2.1	19.8
8.4	22.1	-64.7	-15.2	-10.3	66.6	0.9	8.1	9.6	2.1	21.0
8.7	22.0	-62.9	-14.5	-10.4	54.3	0.9	8.1	9.8	2.0	19.9
9.0	21.8	-64.5	-13.5	-10.6	68.3	1.0	7.7	9.8	2.0	20.1
9.3	21.7	-64.6	-12.5	-11.1	68.7	1.0	8.0	10.2	2.1	20.3
9.6	21.5	-64.2	-11.6	-11.7	66.9	1.0	8.1	10.4	2.0	20.3
9.9	21.5	-65.0	-11.0	-12.4	74.3	1.0	8.2	10.6	2.0	21.7
10.2	21.4	-66.2	-10.6	-13.1	91.6	1.0	8.2	10.7	2.1	20.8
10.5	21.4	-65.3	-10.6	-13.7	78.1	1.0	8.0	10.8	2.0	21.2
10.8	21.4	-63.4	-10.7	-14.1	65.0	1.0	8.0	10.9	2.1	20.9
11.1	21.5	-63.6	-11.0	-14.3	64.3	1.0	8.4	11.1	2.1	20.6
11.4	21.5	-63.6	-11.3	-14.3	64.6	1.0	8.2	11.0	2.1	21.5
11.7	21.6	-63.3	-11.7	-14.2	62.2	1.0	8.0	10.9	2.0	20.5
12.0	21.7	-62.8	-12.0	-14.1	59.0	1.0	7.7	10.8	2.0	21.2
12.3	21.7	-61.3	-12.3	-14.0	49.4	1.0	7.8	10.9	2.1	21.1
12.6	21.7	-62.1	-12.4	-14.0	54.3	1.0	7.9	11.1	2.1	21.7
12.9	21.6	-63.0	-12.6	-14.0	61.0	1.0	7.8	11.0	2.1	20.6
13.2	21.7	-65.1	-12.3	-14.0	78.1	1.0	7.6	11.0	2.1	21.0
13.5	21.8	-65.0	-12.0	-14.1	76.5	1.0	7.5	11.0	2.1	20.9
13.8	21.8	-63.0	-11.8	-14.1	60.4	1.0	7.5	11.2	2.1	20.8
14.1	21.5	-65.2	-11.9	-14.9	81.7	1.0	7.9	11.6	2.1	19.5
14.4	21.5	-63.8	-11.5	-15.2	68.6	1.0	8.1	11.7	2.1	20.5
14.7	21.5	-64.1	-11.2	-15.5	71.3	1.0	8.6	11.8	2.1	21.3
15.0	21.6	-65.3	-11.0	-16.2	80.8	1.1	8.8	11.9	2.2	21.6
15.3	21.4	-65.2	-10.9	-16.9	83.2	1.1	9.1	12.0	2.2	22.8
15.6	21.5	-64.8	-11.0	-18.2	79.6	1.1	9.3	12.0	2.2	21.8
15.9	21.7	-65.8	-11.3	-19.2	86.7	1.1	9.3	12.0	2.2	23.0
16.2	21.7	-63.8	-11.7	-20.0	69.7	1.1	9.3	12.1	2.2	22.4
16.5	21.8	-64.5	-12.1	-20.3	75.0	1.1	9.5	12.1	2.2	22.7
16.8	21.8	-65.4	-12.5	-20.2	83.9	1.0	9.6	12.2	2.2	21.5
17.1	21.9	-67.0	-12.7	-19.9	103.4	1.0	9.7	12.1	2.2	23.6
17.4	21.9	-67.4	-12.6	-19.5	106.1	1.0	9.4	12.0	2.2	22.7
17.7	22.0	-64.2	-12.4	-19.6	76.3	1.0	9.2	11.9	2.2	23.1
18.0	22.1	-66.2	-12.1	-19.8	95.9	1.0	9.4	12.0	2.2	21.9
18.3	22.2	-65.5	-11.8	-20.6	81.2	1.1	9.4	11.9	2.3	22.1
18.6	22.3	-66.6	-11.5	-22.4	98.3	1.1	9.5	11.9	2.3	22.9
18.9	22.3	-65.2	-11.2	-24.9	77.0	1.1	9.2	11.8	2.3	21.8
19.2	22.4	-65.2	-11.1	-28.1	76.5	1.1	9.1	11.9	2.3	22.4
19.5	22.5	-68.6	-11.2	-27.1	116.7	1.1	9.1	11.9	2.3	21.7
19.8	22.5	-68.1	-11.4	-23.8	105.9	1.1	9.0	12.0	2.3	22.0
20.1	22.6	-70.5	-11.8	-21.8	141.7	1.1	8.8	12.0	2.3	21.0
20.4	22.6	-67.2	-12.3	-20.2	98.3	1.0	8.8	12.1	2.3	22.4
20.7	22.7	-68.2	-13.0	-19.3	113.3	1.0	8.8	12.1	2.2	21.4
21.0	22.7	-70.4	-13.5	-18.9	145.7	1.0	8.9	12.1	2.2	21.9
21.3	22.7	-72.8	-13.8	-18.4	201.3	1.0	8.8	12.1	2.2	22.1
21.6	22.7	-75.6	-13.7	-17.7	260.0	1.0	8.5	11.9	2.3	21.8
21.9	22.7	-72.5	-13.1	-16.7	182.7	1.0	8.3	11.8	2.3	21.6
22.2	22.6	-68.1	-12.4	-15.7	107.2	1.0	8.1	11.6	2.4	21.6
22.5	22.6	-66.1	-11.8	-14.7	85.0	1.0	8.0	11.5	2.4	21.1
22.8	22.5	-64.7	-11.3	-14.1	76.2	1.0	7.9	11.5	2.4	20.3
23.1	22.5	-62.5	-11.1	-13.9	55.1	1.0	7.6	11.2	2.5	20.9
23.4	22.5	-64.4	-11.2	-13.8	69.9	1.0	7.5	10.9	2.4	20.3
23.7	22.6	-63.3	-11.6	-14.3	62.0	1.0	7.3	10.7	2.5	20.2
24.0	22.8	-67.0	-12.1	-14.9	93.2	1.0	7.4	10.7	2.4	21.6
24.3	22.9	-65.5	-12.9	-15.8	78.0	1.0	7.4	10.4	2.5	21.5
24.6	23.0	-67.2	-13.8	-16.9	95.7	1.0	7.3	10.0	2.4	21.3
24.9	23.3	-66.7	-14.8	-18.2	89.9	1.0	7.0	9.3	2.5	21.3
25.2	23.4	-71.0	-16.1	-19.8	149.8	1.0	7.0	9.2	2.5	20.9
25.5	23.6	-70.3	-17.4	-21.9	157.7	1.0	6.8	8.9	2.5	20.5
25.8	23.7	-70.0	-18.9	-25.0	145.1	1.0	6.5	8.4	2.5	19.6
26.1	23.8	-70.8	-20.3	-28.8	166.6	1.0	6.4	8.2	2.5	20.4
26.4	23.8	-68.8	-21.0	-30.6	121.6	1.0	6.2	7.8	2.5	20.3
26.7	23.8	-62.3	-21.2	-28.7	55.7	1.0	6.2	7.6	2.6	19.2
27.0	23.7	-65.1	-20.8	-28.3	91.2	1.0	5.8	7.1	2.6	19.1

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Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{D1} = V_{D3} = +5V$, $I_{D1} = 23.5mA$, $I_{D2} = 17.3mA$, $I_{D3} = 39.4mA$ @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	3dB Comp. Output	Noise Figure	IP-3 Output
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)	(dBm)
6.0	24.1	-64.9	-20.0	-10.1	53.5	0.9	10.6	12.1	2.2	20.1
6.3	24.2	-63.9	-20.1	-10.6	47.9	0.9	10.6	12.0	2.2	20.8
6.6	24.2	-65.7	-19.1	-10.9	58.9	0.9	10.8	12.0	2.2	20.8
6.9	24.2	-67.1	-17.7	-11.0	70.1	0.9	10.8	11.8	2.2	21.0
7.2	24.2	-66.9	-16.8	-10.9	67.3	0.9	11.0	11.8	2.1	21.6
7.5	24.0	-66.3	-16.4	-10.6	63.4	0.9	10.9	11.8	2.1	21.4
7.8	23.9	-65.5	-16.7	-10.3	58.5	0.9	11.1	12.0	2.0	21.6
8.1	23.7	-65.9	-17.2	-10.1	63.3	0.9	11.0	12.1	2.0	22.2
8.4	23.5	-68.5	-17.0	-9.9	89.4	0.9	11.0	12.1	2.0	22.8
8.7	23.3	-65.8	-16.1	-9.9	65.9	0.9	11.1	12.4	2.0	22.4
9.0	23.2	-64.2	-14.9	-10.2	54.8	0.9	11.1	12.5	2.0	23.1
9.3	23.0	-63.1	-13.6	-10.6	51.6	1.0	11.2	12.9	2.1	23.2
9.6	22.9	-66.5	-12.5	-11.3	74.1	1.0	11.3	13.2	2.0	23.0
9.9	22.8	-63.5	-11.8	-12.1	53.3	1.0	11.2	13.3	2.0	23.9
10.2	22.8	-63.4	-11.4	-12.9	53.0	1.0	11.2	13.4	2.0	23.3
10.5	22.7	-65.2	-11.3	-13.6	66.9	1.0	11.0	13.3	2.0	25.4
10.8	22.8	-66.3	-11.5	-14.2	75.2	1.0	11.1	13.4	2.0	24.3
11.1	22.8	-64.1	-11.7	-14.3	59.2	1.0	11.0	13.3	2.0	23.6
11.4	22.9	-64.9	-12.0	-14.1	64.7	1.0	11.3	13.4	2.0	24.1
11.7	23.0	-62.2	-12.4	-13.7	46.9	1.0	11.1	13.3	2.0	24.3
12.0	23.0	-60.8	-12.7	-13.4	40.1	1.0	10.9	13.2	2.0	24.2
12.3	23.0	-63.7	-12.9	-13.1	57.2	1.0	10.8	13.2	2.0	23.9
12.6	23.0	-61.2	-13.0	-12.9	41.5	1.0	11.0	13.4	2.0	23.8
12.9	23.0	-63.2	-13.3	-13.0	53.7	1.0	10.8	13.4	2.0	23.4
13.2	23.1	-64.4	-13.1	-12.9	61.0	1.0	10.7	13.4	2.1	23.4
13.5	23.2	-64.3	-12.9	-13.0	58.2	1.0	10.7	13.4	2.1	24.5
13.8	23.3	-61.2	-12.6	-13.2	40.6	1.0	10.6	13.5	2.1	23.6
14.1	23.1	-63.6	-12.8	-14.2	55.4	1.0	10.9	13.7	2.1	23.1
14.4	23.0	-65.7	-12.6	-14.7	71.7	1.0	11.2	13.8	2.1	23.3
14.7	23.1	-62.1	-12.2	-15.3	47.1	1.0	11.5	13.8	2.1	23.2
15.0	23.1	-62.7	-11.9	-16.2	49.9	1.0	11.9	14.0	2.1	24.1
15.3	23.0	-62.0	-11.7	-17.0	48.4	1.0	12.1	13.9	2.2	24.5
15.6	23.0	-63.7	-11.6	-18.2	57.7	1.1	12.3	14.0	2.1	24.8
15.9	23.2	-64.6	-11.7	-18.9	63.1	1.1	12.2	13.9	2.1	24.7
16.2	23.3	-62.9	-12.0	-18.9	52.5	1.0	12.2	14.0	2.1	24.7
16.5	23.3	-67.0	-12.4	-18.3	83.5	1.0	12.2	14.0	2.1	25.8
16.8	23.3	-65.3	-12.8	-17.7	67.9	1.0	12.4	14.1	2.1	25.9
17.1	23.4	-65.3	-13.2	-17.1	70.5	1.0	12.3	14.0	2.1	25.3
17.4	23.4	-63.8	-13.5	-16.7	57.4	1.0	12.3	14.0	2.1	24.7
17.7	23.5	-62.7	-13.5	-16.6	51.5	1.0	12.4	14.0	2.1	24.0
18.0	23.6	-67.5	-13.3	-16.6	100.3	1.0	12.3	14.0	2.2	25.0
18.3	23.7	-65.9	-13.1	-17.5	73.1	1.0	12.5	14.0	2.2	24.1
18.6	23.8	-65.7	-12.5	-18.4	70.9	1.0	12.3	13.9	2.2	24.5
18.9	23.9	-63.8	-12.3	-20.2	62.3	1.0	12.1	13.8	2.2	23.6
19.2	24.0	-66.5	-12.1	-22.3	96.2	1.1	11.9	13.8	2.2	23.4
19.5	24.1	-65.9	-12.3	-24.2	69.1	1.1	12.0	13.9	2.2	25.6
19.8	24.1	-70.8	-12.5	-24.3	124.1	1.1	12.0	14.0	2.3	23.7
20.1	24.2	-69.2	-12.8	-23.5	101.7	1.0	11.8	13.9	2.2	23.2
20.4	24.2	-71.6	-13.4	-21.5	132.6	1.0	11.9	14.0	2.2	22.7
20.7	24.3	-69.6	-13.9	-20.5	107.8	1.0	11.9	14.1	2.3	23.4
21.0	24.3	-74.9	-14.6	-20.0	210.7	1.0	11.8	14.0	2.2	23.1
21.3	24.3	-74.4	-14.9	-19.9	246.1	1.0	11.8	14.0	2.2	23.1
21.6	24.3	-77.1	-14.7	-19.1	295.2	1.0	11.7	14.0	2.2	22.9
21.9	24.3	-69.2	-14.1	-17.9	103.6	1.0	11.6	13.9	2.3	23.0
22.2	24.2	-70.8	-13.4	-16.2	130.7	1.0	11.3	13.8	2.3	23.2
22.5	24.1	-63.7	-12.8	-14.9	57.2	1.0	11.0	13.5	2.3	23.5
22.8	24.0	-63.2	-12.3	-14.2	51.5	1.0	10.8	13.3	2.3	23.5
23.1	24.0	-63.2	-12.1	-13.4	50.5	1.0	10.7	13.3	2.3	21.6
23.4	24.0	-64.0	-12.1	-13.2	59.7	1.0	10.5	13.1	2.3	22.5
23.7	24.1	-63.4	-12.4	-13.4	51.5	1.0	10.4	12.9	2.3	22.5
24.0	24.2	-62.3	-13.0	-13.9	45.8	1.0	10.3	12.7	2.3	21.7
24.3	24.4	-68.2	-14.0	-14.7	89.9	1.0	10.6	13.0	2.3	22.4
24.6	24.5	-66.7	-14.9	-15.7	87.1	1.0	10.3	12.6	2.3	22.8
24.9	24.8	-69.9	-16.0	-17.1	117.7	1.0	10.3	12.6	2.3	23.2
25.2	25.0	-67.8	-17.4	-18.5	84.3	1.0	9.9	12.0	2.3	22.9
25.5	25.2	-69.8	-18.9	-20.3	135.4	1.0	9.6	11.6	2.3	22.4
25.8	25.4	-77.7	-20.5	-21.5	268.9	1.0	9.7	11.6	2.3	23.7
26.1	25.6	-72.2	-21.9	-23.3	137.0	1.0	9.4	11.2	2.3	23.9
26.4	25.6	-72.9	-22.9	-25.2	201.2	1.0	9.5	11.3	2.4	23.8
26.7	25.8	-61.1	-22.9	-26.8	37.4	1.0	8.9	10.6	2.3	23.1
27.0	25.9	-65.1	-22.7	-27.4	62.6	1.0	9.4	11.0	2.5	23.2

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Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{D1} = V_{D3} = +5\text{ V}$, $I_{D1} = 21.1\text{ mA}$, $I_{D2} = 15.3\text{ mA}$, $I_{D3} = 36.2\text{ mA}$ @ Temperature = -55°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	3dB Comp. Output	Noise Figure	IP-3 Output
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)	(dBm)
6.0	25.9	-64.5	-22.8	-9.8	41.0	0.9	10.9	12.5	1.4	20.8
6.3	26.0	-69.2	-22.0	-10.2	78.2	0.9	11.0	12.4	1.5	21.4
6.6	26.0	-67.2	-19.9	-10.5	55.6	0.9	11.2	12.4	1.4	21.2
6.9	26.0	-65.2	-17.9	-10.5	43.9	0.9	11.2	12.2	1.4	22.0
7.2	25.9	-68.3	-16.8	-10.3	62.9	0.9	11.4	12.1	1.3	22.3
7.5	25.8	-66.2	-16.5	-10.1	49.8	0.9	11.5	12.2	1.3	22.4
7.8	25.7	-66.1	-16.8	-9.7	49.3	0.9	11.6	12.4	1.3	22.1
8.1	25.5	-66.0	-17.9	-9.5	50.5	0.9	11.7	12.5	1.2	22.7
8.4	25.3	-66.9	-18.4	-9.3	57.3	0.9	11.6	12.5	1.2	23.3
8.7	25.1	-65.7	-17.7	-9.3	51.4	0.9	11.9	12.8	1.2	23.4
9.0	25.0	-64.9	-16.2	-9.4	47.5	0.9	11.9	13.0	1.2	23.5
9.3	24.8	-66.1	-14.6	-9.8	54.9	0.9	12.1	13.3	1.2	24.0
9.6	24.7	-74.5	-13.2	-10.5	238.5	1.0	12.2	13.6	1.3	23.5
9.9	24.6	-63.3	-12.3	-11.3	41.7	1.0	12.2	13.8	1.2	24.2
10.2	24.5	-66.1	-11.8	-12.2	58.1	1.0	12.3	14.0	1.2	24.0
10.5	24.5	-63.2	-11.7	-13.0	41.6	1.0	12.1	13.9	1.2	25.2
10.8	24.6	-65.3	-11.9	-13.6	53.5	1.0	12.2	14.0	1.2	24.6
11.1	24.6	-63.1	-12.3	-13.6	42.6	1.0	12.0	13.9	1.2	24.6
11.4	24.7	-63.2	-12.8	-13.3	42.5	1.0	12.4	14.0	1.2	24.5
11.7	24.8	-64.5	-13.4	-12.8	49.0	1.0	12.2	13.8	1.2	25.4
12.0	24.8	-61.7	-13.9	-12.4	35.2	1.0	12.1	13.7	1.2	25.6
12.3	24.9	-61.2	-14.1	-12.1	32.7	1.0	12.0	13.7	1.2	25.3
12.6	24.9	-62.5	-14.1	-11.9	38.7	1.0	12.2	14.0	1.2	24.7
12.9	24.9	-63.2	-14.2	-12.0	42.0	1.0	12.0	14.0	1.3	24.1
13.2	25.0	-65.9	-13.9	-12.0	56.8	1.0	12.0	14.0	1.2	25.2
13.5	25.1	-64.2	-13.3	-12.2	45.8	1.0	11.9	14.1	1.2	24.8
13.8	25.2	-60.5	-12.7	-12.5	28.9	1.0	11.9	14.2	1.3	25.5
14.1	25.1	-61.6	-12.7	-13.6	34.0	1.0	12.1	14.3	1.3	23.9
14.4	24.9	-70.6	-12.8	-14.5	98.5	1.0	12.3	14.4	1.3	24.0
14.7	25.0	-60.7	-12.4	-15.0	31.4	1.0	12.6	14.4	1.2	23.8
15.0	25.2	-61.8	-12.2	-16.0	34.9	1.0	12.9	14.5	1.2	24.0
15.3	25.0	-61.7	-12.2	-16.5	35.2	1.0	13.1	14.5	1.3	25.1
15.6	24.9	-65.1	-12.3	-17.5	56.4	1.0	13.3	14.5	1.3	25.8
15.9	25.2	-68.1	-12.5	-18.0	76.1	1.0	13.3	14.5	1.2	25.1
16.2	25.2	-62.1	-12.7	-18.0	37.8	1.0	13.2	14.5	1.2	24.7
16.5	25.2	-64.2	-13.2	-17.5	47.3	1.0	13.4	14.6	1.2	25.8
16.8	25.3	-61.7	-13.8	-16.9	37.2	1.0	13.5	14.7	1.2	26.8
17.1	25.3	-64.4	-14.4	-15.9	51.1	1.0	13.5	14.6	1.2	25.1
17.4	25.3	-63.6	-14.6	-15.4	44.2	1.0	13.4	14.6	1.3	25.5
17.7	25.3	-64.1	-14.7	-15.0	47.5	1.0	13.5	14.6	1.3	24.9
18.0	25.4	-62.9	-14.2	-14.4	39.5	1.0	13.5	14.6	1.3	24.6
18.3	25.5	-62.1	-13.6	-14.8	36.1	1.0	13.6	14.5	1.3	24.5
18.6	25.6	-68.5	-12.6	-15.2	72.7	1.0	13.4	14.4	1.3	26.2
18.9	25.8	-63.6	-12.0	-16.5	41.6	1.0	13.3	14.3	1.3	24.6
19.2	25.9	-66.2	-11.7	-18.0	56.3	1.0	13.2	14.4	1.4	24.5
19.5	26.0	-69.1	-11.8	-21.0	81.9	1.1	13.3	14.5	1.3	25.4
19.8	26.0	-63.2	-12.0	-22.8	38.9	1.1	13.3	14.6	1.4	23.9
20.1	26.1	-69.1	-12.6	-23.6	77.8	1.0	13.1	14.6	1.3	23.5
20.4	26.2	-64.1	-13.6	-23.0	43.4	1.0	13.1	14.6	1.3	23.1
20.7	26.2	-67.9	-14.4	-21.0	67.2	1.0	13.2	14.7	1.3	24.8
21.0	26.2	-70.8	-15.9	-21.0	103.1	1.0	13.1	14.7	1.3	23.9
21.3	26.3	-65.1	-17.3	-21.5	50.6	1.0	13.1	14.7	1.3	23.7
21.6	26.3	-66.5	-16.9	-21.5	58.4	1.0	13.1	14.7	1.3	22.9
21.9	26.3	-65.4	-15.9	-19.1	52.6	1.0	13.0	14.7	1.4	23.4
22.2	26.2	-69.4	-14.3	-16.1	84.9	1.0	12.8	14.5	1.4	24.1
22.5	26.1	-63.3	-13.2	-14.0	43.2	1.0	12.4	14.2	1.4	23.8
22.8	26.0	-63.1	-12.4	-13.2	38.2	1.0	12.3	14.1	1.4	24.0
23.1	25.9	-61.8	-12.1	-12.5	33.0	1.0	12.1	14.0	1.4	23.3
23.4	25.8	-63.2	-12.0	-12.2	38.6	1.0	11.9	13.9	1.4	23.1
23.7	25.9	-64.5	-12.2	-12.4	44.6	1.0	11.7	13.7	1.4	23.4
24.0	26.0	-61.5	-12.8	-12.6	31.8	1.0	11.5	13.4	1.4	23.3
24.3	26.1	-67.2	-13.3	-13.1	62.1	1.0	11.8	13.8	1.4	22.3
24.6	26.2	-62.9	-14.0	-13.3	38.3	1.0	11.6	13.6	1.4	22.7
24.9	26.4	-63.5	-14.3	-14.2	41.0	1.0	11.6	13.5	1.4	23.6
25.2	26.6	-70.6	-14.6	-14.5	89.0	1.0	11.2	12.9	1.4	22.9
25.5	26.8	-82.0	-15.5	-15.0	607.5	1.0	10.8	12.4	1.4	24.0
25.8	27.1	-66.8	-17.6	-16.1	57.1	1.0	10.9	12.4	1.4	24.2
26.1	27.3	-71.7	-20.5	-18.8	98.3	1.0	10.6	12.0	1.3	24.2
26.4	27.5	-77.5	-22.7	-21.4	281.7	1.0	10.9	12.3	1.3	23.6
26.7	27.7	-66.2	-25.4	-23.9	51.9	1.0	10.2	11.6	1.3	23.8
27.0	27.9	-72.4	-28.1	-24.9	204.3	1.0	10.9	12.1	1.4	22.5

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{D1} = V_{D2} = V_{D3} = +5\text{ V}$, $I_{D1} = 19.5\text{ mA}$, $I_{D2} = 14.7\text{ mA}$, $I_{D3} = 35.3\text{ mA}$ @ Temperature = $+105^\circ\text{C}$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	3dB Comp. Output	Noise Figure	IP-3 Output
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)	(dBm)
6.0	22.4	-66.8	-18.3	-10.5	104.1	0.9	9.4	11.2	3.0	18.9
6.3	22.5	-68.1	-18.6	-11.1	90.1	0.9	9.5	11.1	3.0	19.4
6.6	22.6	-67.6	-18.2	-11.5	74.0	0.9	9.7	11.1	2.9	19.2
6.9	22.6	-65.6	-17.2	-11.6	86.4	0.9	9.7	10.9	2.9	20.0
7.2	22.5	-67.1	-16.4	-11.5	69.1	0.9	9.9	10.9	2.8	20.3
7.5	22.4	-65.1	-16.1	-11.2	81.9	0.9	9.9	10.9	2.8	20.2
7.8	22.2	-66.5	-16.3	-10.9	86.5	0.9	10.0	11.1	2.8	20.4
8.1	22.1	-66.4	-16.6	-10.7	79.7	0.9	10.0	11.2	2.8	20.8
8.4	21.9	-65.9	-16.2	-10.5	60.3	0.9	10.0	11.2	2.8	21.7
8.7	21.7	-63.3	-15.3	-10.6	60.6	0.9	10.1	11.5	2.8	21.4
9.0	21.6	-63.1	-14.1	-10.9	69.8	1.0	10.1	11.7	2.8	21.6
9.3	21.4	-63.9	-13.0	-11.4	80.2	1.0	10.3	12.0	2.8	22.0
9.6	21.3	-65.4	-12.0	-12.2	62.8	1.0	10.5	12.2	2.8	22.1
9.9	21.2	-63.0	-11.4	-13.1	59.8	1.0	10.4	12.2	2.8	22.3
10.2	21.2	-62.7	-11.1	-13.9	60.7	1.0	10.5	12.3	2.8	22.1
10.5	21.1	-62.7	-11.1	-14.7	65.1	1.0	10.3	12.2	2.8	23.2
10.8	21.2	-63.1	-11.3	-15.2	95.7	1.0	10.4	12.3	2.8	22.8
11.1	21.2	-66.5	-11.6	-15.0	63.6	1.0	10.4	12.2	2.8	22.4
11.4	21.3	-63.0	-11.8	-14.9	77.1	1.0	10.6	12.3	2.8	22.2
11.7	21.3	-64.5	-12.0	-14.4	47.6	1.0	10.4	12.2	2.8	22.9
12.0	21.3	-60.5	-12.3	-14.1	68.3	1.0	10.4	12.2	2.8	22.6
12.3	21.3	-63.6	-12.4	-13.9	78.3	1.0	10.3	12.2	2.8	22.4
12.6	21.3	-64.8	-12.5	-13.7	104.1	1.0	10.5	12.5	2.8	22.3
12.9	21.3	-66.9	-12.6	-13.8	112.6	1.0	10.3	12.4	2.9	21.8
13.2	21.4	-67.7	-12.5	-13.8	100.1	1.0	10.3	12.4	2.9	22.3
13.5	21.4	-66.9	-12.4	-13.9	64.5	1.0	10.2	12.4	2.9	22.8
13.8	21.4	-62.4	-12.3	-14.1	65.2	1.0	10.3	12.5	2.9	22.7
14.1	21.3	-63.0	-12.5	-15.1	66.3	1.0	10.6	12.7	2.9	21.7
14.4	21.2	-63.0	-12.3	-15.4	60.3	1.0	10.8	12.8	2.9	22.3
14.7	21.3	-62.3	-12.0	-16.0	72.0	1.0	11.1	12.8	2.9	22.5
15.0	21.3	-63.8	-11.8	-16.8	77.8	1.0	11.4	12.9	2.9	23.4
15.3	21.1	-64.3	-11.6	-17.6	84.1	1.1	11.5	12.9	3.0	23.3
15.6	21.2	-64.9	-11.4	-18.8	60.9	1.1	11.6	12.9	3.0	23.6
15.9	21.4	-62.3	-11.4	-19.6	64.7	1.1	11.5	12.9	3.0	23.8
16.2	21.4	-62.8	-11.6	-20.0	54.4	1.1	11.5	12.9	3.0	23.3
16.5	21.5	-61.3	-12.0	-19.5	73.1	1.1	11.6	13.0	3.0	23.3
16.8	21.5	-63.8	-12.4	-18.9	102.1	1.0	11.8	13.1	3.0	24.1
17.1	21.6	-66.6	-12.8	-18.4	66.9	1.0	11.7	13.1	3.0	24.1
17.4	21.6	-63.1	-13.1	-17.9	70.1	1.0	11.7	13.0	3.0	23.4
17.7	21.7	-62.6	-13.2	-17.9	64.8	1.0	11.7	13.0	3.0	23.8
18.0	21.8	-62.9	-13.1	-18.1	138.9	1.0	11.8	13.0	3.0	23.3
18.3	22.0	-67.7	-12.8	-19.6	82.9	1.0	11.7	13.0	3.1	23.9
18.6	22.1	-65.3	-12.3	-21.2	57.4	1.0	11.6	13.0	3.1	23.8
18.9	22.1	-62.1	-12.1	-24.2	121.2	1.1	11.4	12.8	3.1	22.6
19.2	22.2	-67.9	-12.0	-26.0	82.0	1.1	11.4	12.9	3.1	22.7
19.5	22.3	-65.2	-12.2	-26.5	124.3	1.1	11.5	13.0	3.1	23.3
19.8	22.3	-67.2	-12.5	-25.4	117.2	1.1	11.5	13.1	3.2	23.0
20.1	22.3	-68.0	-12.9	-23.4	167.1	1.0	11.4	13.0	3.1	22.0
20.4	22.4	-71.2	-13.6	-21.3	81.9	1.0	11.4	13.1	3.1	21.8
20.7	22.4	-65.3	-14.0	-20.8	1140.1	1.0	11.5	13.1	3.1	22.4
21.0	22.4	-78.3	-14.6	-19.9	203.2	1.0	11.4	13.1	3.1	21.9
21.3	22.4	-71.6	-14.6	-19.7	278.0	1.0	11.3	13.0	3.2	22.2
21.6	22.4	-71.3	-13.9	-18.4	55.4	1.0	11.3	13.1	3.1	21.5
21.9	22.4	-61.9	-13.3	-17.2	117.6	1.0	11.1	12.9	3.2	22.6
22.2	22.3	-66.6	-12.7	-15.9	88.7	1.0	11.0	12.8	3.2	22.5
22.5	22.2	-66.0	-12.4	-15.0	77.5	1.0	10.6	12.5	3.2	22.2
22.8	22.2	-63.8	-12.3	-15.0	86.1	1.0	10.5	12.5	3.2	22.3
23.1	22.2	-65.5	-12.4	-14.8	59.1	1.0	10.3	12.4	3.2	21.2
23.4	22.3	-62.5	-12.8	-15.0	68.5	1.0	10.3	12.2	3.2	22.1
23.7	22.4	-63.1	-13.6	-15.9	73.5	1.0	10.1	12.1	3.2	22.0
24.0	22.6	-64.3	-14.5	-16.8	107.4	1.0	10.0	11.9	3.2	22.1
24.3	22.7	-67.7	-15.6	-18.1	107.7	1.0	10.2	12.1	3.2	21.5
24.6	22.9	-67.3	-16.5	-19.2	79.6	1.0	9.9	11.8	3.3	21.9
24.9	23.1	-65.2	-17.4	-20.6	117.2	1.0	9.9	11.8	3.2	22.0
25.2	23.3	-68.5	-18.5	-21.8	113.8	1.0	9.5	11.3	3.3	21.4
25.5	23.5	-68.5	-19.6	-23.8	79.1	1.0	9.3	11.0	3.3	22.1
25.8	23.6	-65.0	-21.1	-25.4	87.8	1.0	9.3	11.0	3.3	22.4
26.1	23.7	-66.3	-22.2	-28.3	82.0	1.0	9.0	10.6	3.3	22.6
26.4	23.7	-65.0	-22.8	-29.8	54.1	1.0	9.0	10.6	3.4	22.3
26.7	23.8	-61.9	-22.6	-27.5	34.2	1.0	8.4	9.9	3.4	22.7
27.0	23.8	-58.0	-21.9	-25.2		1.0	8.6	10.2	3.4	21.3

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{D1} = V_{D2} = V_{D3} = +5\text{ V}$ @ Temperature = +25°C

P_N	Gain	P_N	Gain	P_N	Gain	P_N	Gain	P_N	Gain
dBm	dB	dBm	dB	dBm	dB	dBm	dB	dBm	dB
8GHz		10GHz		15GHz		20GHz		24GHz	
-25.0	20.7	-25.1	19.5	-25.0	18.7	-25.0	22.6	-25.0	22.8
-24.5	20.7	-24.6	19.7	-24.5	18.7	-24.5	22.6	-24.5	22.8
-24.0	20.7	-24.1	19.7	-24.0	18.7	-24.0	22.6	-24.0	22.8
-23.5	20.7	-23.6	19.7	-23.5	18.8	-23.5	22.6	-23.5	22.8
-23.0	20.7	-23.1	19.7	-23.0	18.8	-23.0	22.6	-22.9	22.7
-22.5	20.7	-22.6	19.7	-22.5	18.8	-22.5	22.6	-22.4	22.7
-22.0	20.7	-22.1	19.7	-22.0	18.8	-22.0	22.6	-21.9	22.7
-21.5	20.7	-21.6	19.6	-21.5	18.8	-21.5	22.6	-21.4	22.7
-21.0	20.7	-21.1	19.6	-21.0	18.8	-21.0	22.6	-20.9	22.7
-20.5	20.7	-20.6	19.6	-20.5	18.8	-20.5	22.6	-20.4	22.7
-20.0	20.7	-20.1	19.6	-20.0	18.8	-20.0	22.6	-19.9	22.7
-19.5	20.7	-19.6	19.6	-19.5	18.8	-19.5	22.6	-19.4	22.7
-19.0	20.7	-19.1	19.6	-19.0	18.8	-19.0	22.6	-18.9	22.7
-18.5	20.7	-18.5	19.6	-18.4	18.7	-18.5	22.6	-18.4	22.7
-18.0	20.7	-18.0	19.6	-17.9	18.7	-18.0	22.6	-17.9	22.7
-17.6	20.7	-17.6	19.6	-17.5	18.7	-17.6	22.6	-17.5	22.7
-17.2	20.7	-17.2	19.6	-17.1	18.7	-17.2	22.6	-17.1	22.7
-16.8	20.6	-16.8	19.6	-16.7	18.7	-16.8	22.5	-16.7	22.7
-16.4	20.6	-16.4	19.6	-16.3	18.7	-16.4	22.5	-16.3	22.6
-16.0	20.6	-16.0	19.6	-15.9	18.7	-16.0	22.5	-15.9	22.6
-15.6	20.6	-15.6	19.6	-15.5	18.7	-15.6	22.5	-15.5	22.6
-15.2	20.6	-15.2	19.6	-15.1	18.7	-15.2	22.5	-15.1	22.6
-14.8	20.6	-14.8	19.6	-14.7	18.7	-14.8	22.5	-14.7	22.6
-14.4	20.6	-14.4	19.6	-14.3	18.7	-14.4	22.5	-14.3	22.5
-14.0	20.6	-14.0	19.6	-13.9	18.7	-14.0	22.4	-13.9	22.5
-13.6	20.6	-13.6	19.6	-13.5	18.7	-13.6	22.4	-13.5	22.5
-13.2	20.5	-13.2	19.5	-13.1	18.7	-13.2	22.4	-13.1	22.4
-12.8	20.5	-12.8	19.5	-12.7	18.7	-12.8	22.4	-12.7	22.3
-12.4	20.5	-12.4	19.5	-12.3	18.7	-12.4	22.3	-12.3	22.3
-12.0	20.5	-12.0	19.5	-11.9	18.7	-12.0	22.3	-11.9	22.2
-11.6	20.4	-11.6	19.5	-11.5	18.7	-11.6	22.2	-11.5	22.1
-11.2	20.4	-11.2	19.4	-11.1	18.7	-11.2	22.2	-11.1	22.0
-10.8	20.3	-10.8	19.4	-10.7	18.6	-10.8	22.1	-10.7	21.9
-10.4	20.3	-10.4	19.4	-10.3	18.6	-10.4	22.1	-10.3	21.7
-10.0	20.2	-10.0	19.4	-9.9	18.6	-10.0	22.0	-9.9	21.5
-9.6	20.1	-9.6	19.3	-9.5	18.6	-9.6	21.9	-9.5	21.4
-9.2	20.1	-9.2	19.3	-9.1	18.6	-9.2	21.7	-9.1	21.2
-8.8	20.0	-8.8	19.2	-8.7	18.5	-8.8	21.6	-8.7	21.0
-8.4	19.9	-8.5	19.2	-8.3	18.5	-8.4	21.4	-8.3	20.8
-8.0	19.8	-8.1	19.1	-7.9	18.5	-8.0	21.2	-7.9	20.6
-7.6	19.6	-7.7	19.0	-7.5	18.4	-7.6	21.1	-7.5	20.4
-7.2	19.5	-7.3	18.9	-7.1	18.4	-7.2	20.8	-7.1	20.2
-6.8	19.3	-6.9	18.8	-6.7	18.3	-6.8	20.6	-6.7	20.0
-6.4	19.1	-6.5	18.7	-6.3	18.2	-6.4	20.4	-6.3	19.8
-6.0	18.9	-6.1	18.6	-5.9	18.1	-6.0	20.2	-5.9	19.6
-5.6	18.6	-5.7	18.4	-5.5	18.0	-5.6	19.9	-5.6	19.4
-5.2	18.2	-5.2	18.3	-5.1	17.9	-5.2	19.7	-5.2	19.2
-4.8	17.9	-4.8	18.1	-4.7	17.7	-4.8	19.4	-4.8	18.9
-4.4	17.5	-4.4	17.9	-4.3	17.5	-4.4	19.1	-4.4	18.7
-4.0	17.0	-4.0	17.6	-3.9	17.3	-4.0	18.8	-4.0	18.4
-3.6	16.6	-3.6	17.4	-3.5	17.1	-3.6	18.5	-3.6	18.6
-3.2	16.2	-3.2	17.1	-3.1	16.9	-3.2	18.7	-3.2	18.3
-2.8	16.2	-2.8	16.8	-2.7	16.7	-2.8	18.4	-2.8	18.0
-2.4	15.8	-2.4	16.5	-2.3	16.4	-2.4	18.1	-2.4	17.7
		-2.0	16.2	-1.9	16.2				
		-1.6	15.9	-1.5	15.9				
		-1.3	15.5	-1.1	15.7				
		-0.9	15.2	-0.7	15.4				
		-0.5	14.8	-0.3	15.0				

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{D1} = V_{D2} = V_{D3} = +5\text{ V}$ @ Temperature = +25°C

P_{IN}	Total I_{DD}	P_{IN}	Total I_{DD}	P_{IN}	Total I_{DD}	P_{IN}	Total I_{DD}	P_{IN}	Total I_{DD}
dBm	mA	dBm	mA	dBm	mA	dBm	mA	dBm	mA
8GHz		10GHz		15GHz		20GHz		24GHz	
-25.0	71.4	-25.1	71.4	-25.0	71.4	-25.0	71.5	-25.0	71.5
-24.5	71.4	-24.6	71.4	-24.5	71.4	-24.5	71.5	-24.5	71.5
-24.0	71.4	-24.1	71.4	-24.0	71.4	-24.0	71.5	-24.0	71.5
-23.5	71.4	-23.6	71.4	-23.5	71.4	-23.5	71.5	-23.5	71.5
-23.0	71.4	-23.1	71.4	-23.0	71.4	-23.0	71.5	-22.9	71.5
-22.5	71.4	-22.6	71.4	-22.5	71.4	-22.5	71.5	-22.4	71.5
-22.0	71.4	-22.1	71.4	-22.0	71.4	-22.0	71.5	-21.9	71.5
-21.5	71.4	-21.6	71.4	-21.5	71.4	-21.5	71.5	-21.4	71.5
-21.0	71.4	-21.1	71.4	-21.0	71.4	-21.0	71.5	-20.9	71.5
-20.5	71.4	-20.6	71.4	-20.5	71.4	-20.5	71.4	-20.4	71.5
-20.0	71.4	-20.1	71.4	-20.0	71.4	-20.0	71.5	-19.9	71.5
-19.5	71.4	-19.6	71.4	-19.5	71.4	-19.5	71.4	-19.4	71.5
-19.0	71.5	-19.1	71.4	-19.0	71.4	-19.0	71.4	-18.9	71.5
-18.5	71.5	-18.5	71.4	-18.4	71.4	-18.5	71.5	-18.4	71.5
-18.0	71.5	-18.0	71.4	-17.9	71.4	-18.0	71.5	-17.9	71.5
-17.6	71.5	-17.6	71.5	-17.5	71.4	-17.6	71.5	-17.5	71.5
-17.2	71.6	-17.2	71.5	-17.1	71.4	-17.2	71.5	-17.1	71.6
-16.8	71.6	-16.8	71.5	-16.7	71.4	-16.8	71.5	-16.7	71.6
-16.4	71.7	-16.4	71.5	-16.3	71.4	-16.4	71.5	-16.3	71.6
-16.0	71.8	-16.0	71.6	-15.9	71.4	-16.0	71.6	-15.9	71.7
-15.6	71.9	-15.6	71.6	-15.5	71.4	-15.6	71.6	-15.5	71.7
-15.2	72.0	-15.2	71.7	-15.1	71.4	-15.2	71.7	-15.1	71.8
-14.8	72.1	-14.8	71.7	-14.7	71.5	-14.8	71.7	-14.7	71.9
-14.4	72.2	-14.4	71.8	-14.3	71.5	-14.4	71.8	-14.3	72.0
-14.0	72.4	-14.0	71.9	-13.9	71.5	-14.0	71.9	-13.9	72.1
-13.6	72.6	-13.6	72.0	-13.5	71.6	-13.6	72.0	-13.5	72.2
-13.2	72.8	-13.2	72.1	-13.1	71.6	-13.2	72.1	-13.1	72.4
-12.8	73.1	-12.8	72.2	-12.7	71.7	-12.8	72.2	-12.7	72.5
-12.4	73.3	-12.4	72.4	-12.3	71.7	-12.4	72.4	-12.3	72.7
-12.0	73.7	-12.0	72.6	-11.9	71.8	-12.0	72.5	-11.9	73.0
-11.6	74.1	-11.6	72.8	-11.5	71.9	-11.6	72.8	-11.5	73.2
-11.2	74.6	-11.2	73.0	-11.1	72.0	-11.2	73.0	-11.1	73.5
-10.8	75.1	-10.8	73.3	-10.7	72.1	-10.8	73.3	-10.7	73.9
-10.4	75.7	-10.4	73.6	-10.3	72.3	-10.4	73.6	-10.3	74.3
-10.0	76.5	-10.0	74.0	-9.9	72.4	-10.0	74.0	-9.9	74.8
-9.6	77.4	-9.6	74.4	-9.5	72.6	-9.6	74.4	-9.5	75.4
-9.2	78.5	-9.2	74.9	-9.1	72.8	-9.2	74.9	-9.1	76.0
-8.8	79.8	-8.8	75.5	-8.7	73.0	-8.8	75.5	-8.7	76.8
-8.4	81.2	-8.5	76.2	-8.3	73.3	-8.4	76.2	-8.3	77.6
-8.0	82.7	-8.1	77.0	-7.9	73.6	-8.0	76.9	-7.9	78.6
-7.6	84.4	-7.7	78.0	-7.5	74.0	-7.6	77.8	-7.5	79.7
-7.2	86.1	-7.3	79.1	-7.1	74.4	-7.2	78.7	-7.1	80.9
-6.8	87.8	-6.9	80.4	-6.7	74.8	-6.8	79.8	-6.7	82.2
-6.4	89.4	-6.5	81.9	-6.3	75.4	-6.4	80.9	-6.3	83.7
-6.0	90.9	-6.1	83.5	-5.9	76.0	-6.0	82.0	-5.9	85.2
-5.6	92.3	-5.7	85.3	-5.5	76.7	-5.6	83.2	-5.6	86.9
-5.2	93.5	-5.2	87.1	-5.1	77.5	-5.2	84.5	-5.2	88.5
-4.8	94.6	-4.8	89.0	-4.7	78.4	-4.8	85.7	-4.8	90.2
-4.4	95.4	-4.4	90.9	-4.3	79.5	-4.4	87.0	-4.4	91.9
-4.0	96.0	-4.0	92.9	-3.9	80.7	-4.0	88.1	-4.0	93.5
-3.6	96.5	-3.6	94.8	-3.5	82.0	-3.6	89.3	-3.6	94.8
-3.2	96.9	-3.2	96.6	-3.1	83.4	-3.2	91.1	-3.2	96.5
-2.8	99.6	-2.8	98.5	-2.7	84.9	-2.8	92.4	-2.8	98.1
-2.4	100.0	-2.4	100.3	-2.3	86.5	-2.4	93.5	-2.4	99.6
		-2.0	102.0	-1.9	88.1				
		-1.6	103.6	-1.5	89.8				
		-1.3	105.0	-1.1	91.4				
		-0.9	106.3	-0.7	93.1				
		-0.5	107.5	-0.3	94.8				

MMIC Amplifier

PMA4-8243LN+

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:
Input Return Loss = S11 (dB)
Gain = S21 (dB)
Isolation = S12 (dB)
Output Return Loss = S22 (dB)

TEST CONDITIONS: V_{D1} = V_{D2} = V_{D3} = +5 V @ Temperature = +25°C

P _{OUT}	Output IP3	P _{OUT}	Output IP3	P _{OUT}	Output IP3	P _{OUT}	Output IP3	P _{OUT}	Output IP3
dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm
8GHz		10GHz		15GHz		20GHz		24GHz	
-5.0	22.0	-5.0	23.8	-5.0	24.1	-5.0	23.6	-5.0	23.1
-4.0	22.0	-4.0	23.8	-4.0	24.2	-4.0	24.1	-4.0	23.3
-3.0	21.9	-3.0	23.6	-3.0	24.1	-3.0	24.1	-3.0	23.4
-2.0	21.8	-2.0	23.6	-2.0	24.1	-2.0	24.1	-2.0	23.5
-1.0	21.7	-1.0	23.4	-1.0	24.1	-1.0	24.2	-1.0	23.6
0.0	21.5	0.0	23.3	0.0	24.1	0.0	24.2	0.0	23.8
1.0	21.3	1.0	23.1	1.0	24.1	1.0	24.3	1.0	23.9
2.0	21.0	2.0	22.9	2.0	24.0	2.0	24.3	2.0	23.9
3.0	20.6	3.0	22.6	3.0	24.0	3.0	24.3	3.0	23.8
4.0	20.2	4.0	22.1	4.0	23.8	4.0	24.2	4.0	23.5
5.0	19.9	5.0	21.5	5.0	23.6	5.0	24.1	5.0	23.1
6.0	19.6	6.0	21.1	6.0	23.3	6.0	23.8	6.0	22.4
7.0	19.3	7.0	20.9	7.0	22.9	7.0	23.3	7.0	21.7
8.0	19.3	8.0	20.8	8.0	22.4	8.0	22.7	8.0	21.2
9.0	19.3	9.0	21.0	9.0	21.9	9.0	22.2	9.0	21.0
10.0	19.3	10.0	21.1	10.0	21.7	10.0	22.1	10.0	21.3
11.0	19.1	11.0	21.2	11.0	21.7	11.0	22.1	11.0	21.6
		12.0	21.4	12.0	21.8	12.0	22.2	12.0	22.1
				13.0	22.0	13.0	22.3		

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{D1} = V_{D2} = V_{D3} = +5\text{ V}$ @ Temperature = +25°C

P_{IN}	P_{OUT}	P_{IN}	P_{OUT}	P_{IN}	P_{OUT}	P_{IN}	P_{OUT}	P_{IN}	P_{OUT}
dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm
8GHz		10GHz		15GHz		20GHz		24GHz	
-25.0	-4.3	-25.1	-5.6	-25.0	-6.3	-25.0	-2.4	-25.0	-2.2
-24.5	-3.8	-24.6	-4.9	-24.5	-5.8	-24.5	-1.9	-24.5	-1.7
-24.0	-3.3	-24.1	-4.4	-24.0	-5.2	-24.0	-1.4	-24.0	-1.2
-23.5	-2.8	-23.6	-3.9	-23.5	-4.6	-23.5	-0.9	-23.5	-0.7
-23.0	-2.3	-23.1	-3.4	-23.0	-4.1	-23.0	-0.4	-22.9	-0.2
-22.5	-1.8	-22.6	-2.9	-22.5	-3.6	-22.5	0.1	-22.4	0.3
-22.0	-1.3	-22.1	-2.4	-22.0	-3.1	-22.0	0.6	-21.9	0.8
-21.5	-0.8	-21.6	-1.9	-21.5	-2.6	-21.5	1.1	-21.4	1.3
-21.0	-0.3	-21.1	-1.4	-21.0	-2.1	-21.0	1.6	-20.9	1.8
-20.5	0.2	-20.6	-0.9	-20.5	-1.6	-20.5	2.1	-20.4	2.3
-20.0	0.7	-20.1	-0.4	-20.0	-1.1	-20.0	2.6	-19.9	2.8
-19.5	1.2	-19.6	0.1	-19.5	-0.7	-19.5	3.1	-19.4	3.3
-19.0	1.7	-19.1	0.5	-19.0	-0.2	-19.0	3.6	-18.9	3.8
-18.5	2.2	-18.5	1.1	-18.4	0.3	-18.5	4.1	-18.4	4.3
-18.0	2.6	-18.0	1.6	-17.9	0.8	-18.0	4.6	-17.9	4.8
-17.6	3.0	-17.6	2.0	-17.5	1.2	-17.6	5.0	-17.5	5.2
-17.2	3.4	-17.2	2.4	-17.1	1.6	-17.2	5.4	-17.1	5.6
-16.8	3.8	-16.8	2.8	-16.7	2.0	-16.8	5.8	-16.7	6.0
-16.4	4.2	-16.4	3.2	-16.3	2.4	-16.4	6.2	-16.3	6.4
-16.0	4.6	-16.0	3.6	-15.9	2.8	-16.0	6.6	-15.9	6.7
-15.6	5.0	-15.6	4.0	-15.5	3.2	-15.6	7.0	-15.5	7.1
-15.2	5.4	-15.2	4.4	-15.1	3.6	-15.2	7.3	-15.1	7.5
-14.8	5.8	-14.8	4.8	-14.7	4.0	-14.8	7.7	-14.7	7.9
-14.4	6.2	-14.4	5.2	-14.3	4.4	-14.4	8.1	-14.3	8.2
-14.0	6.6	-14.0	5.5	-13.9	4.8	-14.0	8.5	-13.9	8.6
-13.6	6.9	-13.6	5.9	-13.5	5.2	-13.6	8.9	-13.5	9.0
-13.2	7.3	-13.2	6.3	-13.1	5.6	-13.2	9.2	-13.1	9.3
-12.8	7.7	-12.8	6.7	-12.7	6.0	-12.8	9.6	-12.7	9.6
-12.4	8.1	-12.4	7.1	-12.3	6.4	-12.4	9.9	-12.3	9.9
-12.0	8.5	-12.0	7.5	-11.9	6.8	-12.0	10.3	-11.9	10.3
-11.6	8.8	-11.6	7.9	-11.5	7.2	-11.6	10.6	-11.5	10.6
-11.2	9.2	-11.2	8.2	-11.1	7.6	-11.2	11.0	-11.1	10.9
-10.8	9.5	-10.8	8.6	-10.7	7.9	-10.8	11.3	-10.7	11.1
-10.4	9.9	-10.4	9.0	-10.3	8.3	-10.4	11.7	-10.3	11.4
-10.0	10.2	-10.0	9.3	-9.9	8.7	-10.0	12.0	-9.9	11.6
-9.6	10.5	-9.6	9.7	-9.5	9.1	-9.6	12.3	-9.5	11.8
-9.2	10.9	-9.2	10.1	-9.1	9.5	-9.2	12.5	-9.1	12.1
-8.8	11.2	-8.8	10.4	-8.7	9.8	-8.8	12.8	-8.7	12.3
-8.4	11.5	-8.5	10.7	-8.3	10.2	-8.4	13.0	-8.3	12.5
-8.0	11.8	-8.1	11.0	-7.9	10.5	-8.0	13.3	-7.9	12.7
-7.6	12.0	-7.7	11.4	-7.5	10.9	-7.6	13.5	-7.5	12.9
-7.2	12.3	-7.3	11.7	-7.1	11.2	-7.2	13.7	-7.1	13.1
-6.8	12.5	-6.9	12.0	-6.7	11.6	-6.8	13.9	-6.7	13.3
-6.4	12.7	-6.5	12.3	-6.3	11.9	-6.4	14.0	-6.3	13.5
-6.0	12.9	-6.1	12.5	-5.9	12.2	-6.0	14.2	-5.9	13.6
-5.6	13.0	-5.7	12.8	-5.5	12.5	-5.6	14.3	-5.6	13.8
-5.2	13.0	-5.2	13.0	-5.1	12.7	-5.2	14.5	-5.2	14.0
-4.8	13.1	-4.8	13.2	-4.7	13.0	-4.8	14.6	-4.8	14.2
-4.4	13.1	-4.4	13.4	-4.3	13.2	-4.4	14.7	-4.4	14.3
-4.0	13.0	-4.0	13.6	-3.9	13.4	-4.0	14.8	-4.0	14.4
-3.6	13.0	-3.6	13.7	-3.5	13.6	-3.6	14.9	-3.6	15.0
-3.2	13.0	-3.2	13.8	-3.1	13.8	-3.2	15.5	-3.2	15.2
-2.8	13.4	-2.8	14.0	-2.7	14.0	-2.8	15.6	-2.8	15.3
-2.4	13.4	-2.4	14.1	-2.3	14.1	-2.4	15.6	-2.4	15.4
		-2.0	14.2	-1.9	14.3				
		-1.6	14.2	-1.5	14.4				
		-1.3	14.3	-1.1	14.5				
		-0.9	14.3	-0.7	14.6				
		-0.5	14.3	-0.3	14.7				