

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS:  $V_{D1} = +3.5\text{ V}$ ,  $V_{D2} = +3.5\text{ V}$ ,  $V_{D3} = +3.5\text{ V}$ ,  $I_{D1} = 8.6\text{ mA}$ ,  $I_{D2} = 10.3\text{ mA}$ ,  $I_{D3} = 25.3\text{ mA}$  @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	P <sub>SAT</sub> Output	Noise Figure
					K	Measure				
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dB)
5.00	19.6	-71.6	-7.5	-12.0	164.5	1.1	16.7	9.4	11.1	3.3
5.50	20.1	-65.9	-9.2	-11.4	86.7	1.0	16.8	8.8	11.2	3.0
6.00	20.3	-67.2	-10.5	-11.6	102.3	1.0	17.4	8.4	11.3	2.8
6.50	20.6	-65.9	-11.8	-11.9	88.1	1.0	17.6	8.5	11.8	2.6
7.00	21.1	-66.8	-13.5	-11.8	94.9	1.0	18.4	8.3	12.0	2.5
7.50	21.5	-67.0	-15.3	-11.4	93.6	1.0	19.1	8.4	12.4	2.5
8.00	21.9	-65.7	-16.4	-11.1	76.7	0.9	19.1	8.2	12.6	2.4
8.50	22.3	-62.4	-16.3	-11.2	51.0	0.9	19.3	8.0	13.0	2.4
9.00	22.6	-65.0	-14.9	-11.5	66.1	1.0	19.5	8.1	13.5	2.3
9.50	22.8	-66.9	-13.2	-11.6	80.0	1.0	19.4	8.0	13.8	2.3
10.00	22.9	-62.1	-11.8	-11.5	45.1	1.0	19.5	7.7	14.0	2.3
10.50	22.9	-63.6	-11.0	-11.2	52.3	1.0	19.6	7.8	14.1	2.4
11.00	22.9	-66.6	-10.5	-11.3	73.2	1.0	19.5	7.5	14.1	2.4
11.50	23.0	-65.1	-10.3	-11.7	61.0	1.0	18.9	7.3	14.1	2.4
12.00	23.0	-63.5	-10.2	-12.3	51.7	1.0	18.3	7.4	14.2	2.4
12.50	22.8	-65.0	-10.1	-12.7	63.0	1.0	19.3	7.5	14.2	2.4
13.00	22.7	-90.0	-10.7	-12.3	1143.6	1.0	18.8	7.3	14.1	2.4
13.50	22.6	-69.5	-11.0	-11.4	109.1	1.0	18.2	7.4	14.1	2.5
14.00	22.1	-70.9	-11.2	-11.3	136.3	1.0	19.0	8.2	14.1	2.5
14.50	21.9	-65.8	-11.0	-11.1	77.2	1.0	19.7	8.9	13.9	2.5
15.00	21.8	-66.7	-10.2	-11.5	85.8	1.0	20.3	9.1	14.0	2.6
15.50	21.6	-63.7	-9.5	-12.1	61.6	1.0	20.1	9.3	14.1	2.7
16.00	21.8	-65.5	-9.2	-12.9	74.6	1.1	21.0	9.5	14.1	2.7
16.50	21.9	-63.0	-9.2	-13.1	55.6	1.1	21.1	9.4	14.0	2.7
17.00	22.0	-62.2	-9.7	-12.5	50.2	1.0	20.9	9.4	14.1	2.7
17.50	22.2	-60.8	-10.2	-12.1	42.8	1.0	21.0	9.5	13.9	2.7
18.00	22.5	-59.1	-10.6	-12.1	34.1	1.0	21.8	9.3	13.6	2.7
18.50	22.9	-63.2	-10.7	-12.9	53.3	1.0	20.7	9.1	13.8	2.7
19.00	23.2	-62.3	-10.6	-14.3	47.2	1.0	21.2	9.1	14.2	2.7
19.50	23.5	-61.5	-10.5	-15.0	42.0	1.1	20.9	9.2	14.2	2.7
20.00	23.7	-62.6	-10.8	-14.8	46.4	1.0	20.7	8.8	14.0	2.7
20.50	24.0	-62.4	-11.1	-15.0	44.7	1.0	20.9	8.6	14.1	2.6
21.00	24.4	-62.7	-11.5	-16.5	45.2	1.0	20.6	8.8	14.4	2.6
21.50	24.6	-67.1	-11.4	-20.2	73.6	1.1	20.0	8.6	14.3	2.6
22.00	24.8	-64.1	-11.0	-25.5	51.1	1.1	20.3	8.3	14.1	2.6
22.50	25.0	-73.6	-10.9	-23.6	151.2	1.1	19.6	8.0	14.2	2.6
23.00	25.1	-70.0	-11.2	-20.7	99.0	1.1	19.9	7.9	13.9	2.6
23.50	25.3	-80.0	-12.3	-19.1	311.0	1.0	20.6	7.5	13.5	2.6
24.00	25.4	-67.4	-13.9	-17.5	73.4	1.0	19.8	7.2	13.6	2.6
24.50	25.4	-68.8	-15.9	-16.8	87.4	1.0	19.2	7.0	13.7	2.6
25.00	25.5	-66.4	-18.3	-16.0	66.5	1.0	18.7	6.8	13.5	2.6
25.50	25.4	-65.7	-20.2	-15.4	62.8	1.0	18.1	6.2	13.2	2.6
26.00	25.0	-59.3	-19.4	-14.4	31.1	1.0	17.6	5.8	13.0	2.7
26.50	24.9	-57.8	-19.0	-12.4	25.9	1.0	16.9	5.3	12.7	2.7
27.00	24.4	-53.0	-17.7	-10.6	15.1	0.9	16.3	4.6	12.5	2.8
27.50	23.8	-58.1	-16.3	-9.1	28.0	0.9	14.7	3.9	11.8	2.9
28.00	22.8	-62.1	-14.5	-8.0	48.0	0.9	13.6	3.4	11.7	3.0
28.50	21.5	-68.6	-13.7	-7.3	113.6	0.8	13.3	2.8	10.9	3.1
29.00	19.9	-72.1	-13.5	-6.3	192.1	0.8	12.0	1.8	9.7	3.2
29.50	17.9	-71.8	-14.0	-5.4	217.5	0.7	11.1	1.0	8.7	3.4
30.00	16.0	-60.6	-15.5	-4.7	69.7	0.7	9.2	0.2	7.5	3.6

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS:  $V_{D1} = +4.0\text{ V}$ ,  $V_{D2} = +4.0\text{ V}$ ,  $V_{D3} = +4.0\text{ V}$ ,  $I_{D1} = 10.2\text{ mA}$ ,  $I_{D2} = 12.7\text{ mA}$ ,  $I_{D3} = 31.1\text{ mA}$  @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	P <sub>SAT</sub> Output	Noise Figure
					K	Measure				
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dB)
5.00	20.9	-67.9	-8.0	-11.6	94.0	1.1	18.2	10.6	12.3	3.1
5.50	21.2	-72.1	-9.8	-11.1	156.1	1.0	18.6	10.5	12.3	2.8
6.00	21.4	-69.4	-11.2	-11.3	116.9	1.0	19.2	10.3	12.5	2.7
6.50	21.7	-71.2	-12.5	-11.6	143.6	1.0	19.7	10.5	13.0	2.5
7.00	22.1	-69.8	-14.4	-11.5	119.2	1.0	20.4	10.4	13.3	2.3
7.50	22.6	-68.2	-16.3	-11.2	95.1	0.9	21.1	10.4	13.7	2.3
8.00	23.0	-68.0	-17.5	-10.9	89.0	0.9	21.3	10.0	13.9	2.3
8.50	23.4	-64.9	-17.3	-11.0	59.8	0.9	21.0	10.1	14.3	2.3
9.00	23.7	-66.0	-15.6	-11.2	66.1	0.9	22.2	10.2	14.7	2.2
9.50	23.9	-67.1	-13.7	-11.4	72.4	1.0	22.1	10.1	15.0	2.2
10.00	24.0	-65.7	-12.2	-11.2	60.2	1.0	21.9	10.0	15.2	2.2
10.50	24.0	-63.7	-11.3	-11.0	46.6	1.0	21.4	10.0	15.4	2.2
11.00	24.0	-64.1	-10.8	-11.0	48.2	1.0	21.9	9.8	15.3	2.3
11.50	24.1	-62.2	-10.6	-11.4	38.8	1.0	21.5	9.7	15.3	2.2
12.00	24.1	-63.7	-10.5	-12.1	46.4	1.0	20.7	9.8	15.5	2.3
12.50	23.9	-65.5	-10.5	-12.5	58.7	1.0	21.3	9.8	15.5	2.3
13.00	23.8	-77.4	-11.1	-12.1	237.7	1.0	21.4	9.7	15.4	2.3
13.50	23.7	-72.0	-11.5	-11.2	128.5	1.0	20.5	9.6	15.3	2.3
14.00	23.2	-67.7	-11.7	-11.1	82.6	1.0	21.0	10.3	15.2	2.3
14.50	23.0	-68.2	-11.5	-10.8	89.1	1.0	21.8	11.0	15.0	2.4
15.00	23.0	-63.6	-10.6	-11.3	52.6	1.0	22.9	11.3	15.1	2.5
15.50	22.7	-67.0	-9.9	-11.8	79.7	1.0	22.1	11.6	15.2	2.5
16.00	22.9	-64.7	-9.6	-12.5	59.8	1.0	23.0	11.8	15.2	2.5
16.50	23.0	-67.9	-9.6	-12.6	86.6	1.0	22.8	11.7	15.1	2.5
17.00	23.2	-63.3	-10.1	-12.1	50.6	1.0	23.0	11.5	15.2	2.5
17.50	23.3	-61.4	-10.7	-11.6	40.4	1.0	23.0	11.6	15.1	2.5
18.00	23.7	-61.5	-11.0	-11.6	39.6	1.0	24.1	11.4	14.7	2.5
18.50	24.1	-62.0	-11.1	-12.2	40.4	1.0	22.9	11.3	14.9	2.5
19.00	24.4	-61.7	-11.0	-13.4	38.2	1.0	23.1	11.4	15.3	2.6
19.50	24.7	-65.1	-11.0	-14.1	55.4	1.0	23.2	11.5	15.3	2.5
20.00	25.0	-60.8	-11.3	-14.0	33.1	1.0	23.1	11.0	15.0	2.5
20.50	25.3	-60.6	-11.7	-14.2	31.6	1.0	23.5	11.0	15.1	2.5
21.00	25.6	-69.3	-12.1	-15.6	84.5	1.0	22.7	11.1	15.4	2.4
21.50	25.9	-69.5	-11.9	-19.0	84.7	1.1	23.4	10.9	15.2	2.4
22.00	26.1	-69.3	-11.5	-24.3	81.5	1.1	22.4	10.6	15.0	2.4
22.50	26.3	-76.3	-11.3	-23.8	178.1	1.1	22.6	10.3	15.1	2.4
23.00	26.4	-67.1	-11.6	-21.0	61.4	1.1	21.7	10.1	14.8	2.4
23.50	26.6	-75.6	-12.7	-19.3	163.4	1.0	22.5	9.8	14.4	2.4
24.00	26.7	-69.5	-14.4	-17.6	80.5	1.0	22.9	9.5	14.5	2.4
24.50	26.7	-71.1	-16.5	-16.7	98.3	1.0	22.1	9.3	14.8	2.4
25.00	26.9	-71.3	-19.1	-15.9	99.8	1.0	22.5	9.1	14.6	2.4
25.50	26.8	-64.1	-21.3	-15.3	44.3	1.0	21.8	8.7	14.4	2.4
26.00	26.5	-61.7	-20.5	-14.3	34.6	1.0	21.5	8.3	14.1	2.4
26.50	26.5	-57.2	-20.2	-12.4	20.3	1.0	20.9	7.9	13.9	2.6
27.00	26.2	-63.5	-18.7	-10.7	41.7	0.9	19.8	7.3	13.7	2.6
27.50	25.7	-59.6	-17.1	-9.1	27.1	0.9	18.9	6.6	13.1	2.7
28.00	24.7	-61.3	-14.8	-7.8	34.7	0.9	17.6	6.2	12.9	2.7
28.50	23.5	-56.9	-13.6	-7.0	23.1	0.8	16.8	5.6	12.2	2.8
29.00	21.9	-65.3	-13.2	-6.0	68.1	0.8	15.8	4.6	11.0	2.9
29.50	19.8	-57.8	-13.6	-5.1	33.7	0.7	14.7	3.9	10.2	3.1
30.00	17.9	-60.9	-15.1	-4.4	56.8	0.7	13.1	3.0	9.0	3.3

*Typical Performance Data*

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**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS:  $V_{D1} = +5.0\text{ V}$ ,  $V_{D2} = +5.0\text{ V}$ ,  $V_{D3} = +5.0\text{ V}$ ,  $I_{D1} = 13.5\text{ mA}$ ,  $I_{D2} = 17.8\text{ mA}$ ,  $I_{D3} = 42.9\text{ mA}$  @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	P <sub>SAT</sub> Output	Noise Figure
					K	Measure				
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dB)
5.00	22.5	-61.6	-8.8	-11.3	39.1	1.0	20.3	12.3	14.0	2.8
5.50	22.6	-71.7	-10.8	-10.8	128.1	1.0	21.3	12.7	14.1	2.6
6.00	22.8	-67.4	-12.1	-11.0	79.6	1.0	21.9	12.8	14.3	2.4
6.50	23.1	-67.5	-13.6	-11.3	81.0	1.0	21.7	13.1	14.8	2.3
7.00	23.5	-70.1	-15.7	-11.2	105.6	0.9	23.2	13.2	15.0	2.2
7.50	24.0	-67.8	-18.1	-10.8	77.6	0.9	24.0	13.4	15.5	2.1
8.00	24.4	-67.4	-19.4	-10.6	71.1	0.9	24.5	13.1	15.6	2.1
8.50	24.7	-66.5	-18.8	-10.7	61.1	0.9	24.4	13.1	16.0	2.1
9.00	25.0	-68.3	-16.7	-10.9	72.7	0.9	23.9	13.2	16.3	2.0
9.50	25.3	-64.0	-14.5	-11.0	43.1	1.0	24.8	13.3	16.6	2.0
10.00	25.4	-66.7	-12.8	-10.9	57.4	1.0	25.2	13.1	16.8	2.1
10.50	25.4	-64.0	-11.8	-10.7	41.2	1.0	25.3	13.2	16.9	2.0
11.00	25.4	-64.9	-11.3	-10.7	45.1	1.0	25.5	12.9	16.8	2.1
11.50	25.5	-66.8	-11.1	-11.1	55.9	1.0	23.9	12.8	16.9	2.1
12.00	25.5	-64.1	-11.1	-11.7	41.8	1.0	24.5	13.1	17.1	2.1
12.50	25.4	-66.1	-11.0	-12.1	53.7	1.0	24.4	13.1	17.2	2.1
13.00	25.2	-74.4	-11.7	-11.8	142.7	1.0	24.4	12.8	17.0	2.1
13.50	25.1	-69.3	-12.2	-10.9	80.3	1.0	24.5	12.9	16.7	2.2
14.00	24.6	-68.3	-12.3	-10.8	76.0	1.0	23.7	13.4	16.6	2.2
14.50	24.5	-62.9	-12.2	-10.5	41.2	1.0	24.5	14.1	16.4	2.2
15.00	24.4	-63.7	-11.2	-10.9	45.3	1.0	24.5	14.4	16.5	2.3
15.50	24.1	-66.3	-10.4	-11.3	63.1	1.0	24.4	14.7	16.7	2.3
16.00	24.3	-67.0	-10.1	-11.9	67.1	1.0	24.2	14.9	16.8	2.4
16.50	24.5	-62.3	-10.2	-12.0	38.6	1.0	26.0	14.8	16.7	2.3
17.00	24.6	-66.8	-10.7	-11.4	63.7	1.0	25.0	14.8	16.9	2.4
17.50	24.7	-62.7	-11.3	-11.0	39.7	1.0	25.3	14.8	16.8	2.4
18.00	25.1	-65.6	-11.7	-10.8	53.5	1.0	24.9	14.5	16.4	2.3
18.50	25.6	-63.1	-11.8	-11.2	38.5	1.0	23.0	14.4	16.4	2.3
19.00	26.0	-63.8	-11.7	-12.1	40.5	1.0	23.7	14.6	16.8	2.3
19.50	26.3	-62.3	-11.7	-12.8	33.2	1.0	22.9	14.7	16.9	2.3
20.00	26.5	-66.3	-12.0	-12.8	51.9	1.0	23.9	14.1	16.5	2.3
20.50	26.8	-65.7	-12.6	-13.0	47.3	1.0	23.6	14.0	16.6	2.3
21.00	27.2	-67.6	-13.0	-14.2	58.0	1.0	23.4	14.3	16.9	2.2
21.50	27.5	-64.7	-12.8	-17.2	40.6	1.0	23.1	13.9	16.7	2.2
22.00	27.8	-66.7	-12.2	-22.1	50.1	1.1	22.3	13.6	16.5	2.2
22.50	27.9	-74.3	-11.9	-23.6	118.7	1.1	22.4	13.6	16.6	2.2
23.00	28.0	-75.3	-12.1	-21.1	132.3	1.1	21.9	13.4	16.2	2.2
23.50	28.3	-70.1	-13.4	-19.4	71.4	1.0	21.9	12.9	15.8	2.2
24.00	28.4	-67.3	-15.1	-17.4	51.4	1.0	21.5	12.8	15.9	2.2
24.50	28.5	-80.5	-17.4	-16.4	236.9	1.0	22.3	12.7	16.3	2.2
25.00	28.6	-72.1	-20.4	-15.5	89.4	1.0	22.2	12.6	16.2	2.2
25.50	28.7	-62.1	-23.2	-14.8	28.1	1.0	22.7	12.2	16.0	2.2
26.00	28.5	-63.3	-22.1	-14.0	33.3	1.0	22.8	11.9	15.8	2.2
26.50	28.5	-62.2	-22.1	-12.1	28.2	0.9	21.2	11.5	15.7	2.3
27.00	28.4	-60.0	-20.2	-10.5	21.5	0.9	22.6	11.1	15.5	2.4
27.50	28.2	-62.5	-18.3	-8.8	28.1	0.9	22.8	10.5	14.9	2.4
28.00	27.4	-59.2	-15.3	-7.4	19.7	0.8	22.4	10.3	14.9	2.5
28.50	26.3	-59.8	-13.5	-6.5	22.5	0.8	22.1	9.8	14.2	2.6
29.00	24.7	-68.1	-12.7	-5.5	64.5	0.8	21.4	8.9	13.0	2.7
29.50	22.6	-65.8	-12.8	-4.7	58.7	0.7	20.9	8.3	12.4	2.8
30.00	20.5	-60.8	-14.3	-4.0	38.6	0.6	21.6	7.3	11.3	3.0

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS:  $V_{D1} = +3.5\text{ V}$ ,  $V_{D2} = +3.5\text{ V}$ ,  $V_{D3} = +3.5\text{ V}$ ,  $I_{D1} = 9.0\text{ mA}$ ,  $I_{D2} = 11.5\text{ mA}$ ,  $I_{D3} = 27.2\text{ mA}$  @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	P <sub>SAT</sub> Output	Noise Figure
					K	Measure				
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dB)
5.00	21.9	-68.5	-7.5	-11.4	86.4	1.1	16.4	7.2	11.8	2.4
5.50	22.2	-73.4	-9.3	-11.1	158.0	1.0	16.9	7.3	11.8	2.2
6.00	22.4	-63.9	-10.8	-11.4	54.1	1.0	17.3	7.5	11.9	2.1
6.50	22.7	-67.0	-12.5	-11.3	77.4	1.0	17.8	8.5	12.3	1.9
7.00	23.1	-64.7	-14.6	-10.9	57.7	0.9	18.9	8.5	12.4	1.8
7.50	23.5	-65.5	-16.8	-10.5	61.4	0.9	19.4	8.9	12.8	1.7
8.00	23.9	-64.9	-18.1	-10.3	54.5	0.9	19.3	8.6	13.0	1.6
8.50	24.3	-68.7	-17.8	-10.6	81.2	0.9	19.2	8.6	13.4	1.6
9.00	24.6	-66.0	-16.1	-11.0	58.2	0.9	20.1	8.6	13.9	1.6
9.50	24.8	-69.5	-14.1	-11.1	83.9	1.0	19.8	8.6	14.2	1.6
10.00	24.9	-67.2	-12.4	-11.0	62.1	1.0	19.7	8.4	14.4	1.6
10.50	25.0	-63.3	-11.3	-10.7	38.6	1.0	20.3	8.5	14.5	1.6
11.00	25.0	-63.8	-10.8	-10.7	40.5	1.0	19.8	8.2	14.4	1.6
11.50	25.1	-62.3	-10.4	-11.2	33.8	1.0	19.0	8.1	14.5	1.6
12.00	25.1	-63.5	-10.4	-11.6	38.9	1.0	19.2	8.4	14.5	1.6
12.50	25.0	-62.9	-10.4	-12.1	37.4	1.0	19.6	8.3	14.6	1.6
13.00	24.8	-85.6	-11.2	-11.7	528.8	1.0	19.2	8.1	14.5	1.6
13.50	24.8	-66.0	-11.7	-11.0	55.1	1.0	19.0	8.1	14.6	1.7
14.00	24.5	-69.0	-11.4	-10.7	80.5	1.0	19.4	8.7	14.5	1.7
14.50	24.1	-63.8	-10.9	-11.1	45.9	1.0	20.9	9.6	14.4	1.7
15.00	24.1	-63.3	-10.0	-11.5	43.2	1.0	21.8	10.0	14.5	1.7
15.50	23.7	-63.9	-9.6	-11.7	48.1	1.0	20.9	10.3	14.6	1.8
16.00	24.0	-67.7	-9.9	-11.8	72.8	1.0	21.4	10.6	14.5	1.8
16.50	24.1	-64.1	-10.1	-11.9	47.8	1.0	22.5	10.4	14.5	1.8
17.00	24.2	-64.2	-10.1	-11.6	47.8	1.0	21.7	10.4	14.5	1.8
17.50	24.3	-62.2	-10.0	-11.5	37.5	1.0	21.5	10.4	14.4	1.8
18.00	24.6	-59.8	-10.0	-11.3	27.5	1.0	21.2	10.1	14.1	1.8
18.50	25.0	-61.6	-10.7	-11.6	32.8	1.0	21.3	10.2	14.3	1.8
19.00	25.5	-63.0	-11.3	-12.7	37.7	1.0	22.1	10.4	14.8	1.8
19.50	25.8	-63.1	-11.2	-13.5	37.4	1.0	22.2	10.4	14.8	1.8
20.00	26.0	-61.8	-10.9	-13.6	31.4	1.0	21.8	10.0	14.5	1.7
20.50	26.3	-60.9	-10.8	-13.5	27.4	1.0	21.9	9.9	14.7	1.8
21.00	26.7	-65.9	-11.5	-14.3	48.1	1.0	21.5	10.2	15.0	1.7
21.50	27.0	-70.2	-12.1	-17.0	77.6	1.0	21.6	10.0	14.8	1.6
22.00	27.4	-66.1	-11.9	-23.5	47.6	1.1	21.4	9.8	14.8	1.6
22.50	27.5	-72.1	-11.2	-24.2	92.5	1.1	21.3	9.5	14.8	1.6
23.00	27.6	-75.5	-10.9	-21.1	134.3	1.1	21.5	9.4	14.4	1.6
23.50	27.9	-64.5	-11.8	-20.0	37.7	1.1	20.6	9.0	14.2	1.6
24.00	28.1	-74.0	-13.7	-19.2	111.6	1.0	20.7	8.9	14.3	1.7
24.50	28.2	-69.6	-15.8	-18.4	68.1	1.0	20.7	8.9	14.4	1.6
25.00	28.4	-68.6	-18.2	-17.3	59.7	1.0	20.3	8.6	14.1	1.6
25.50	28.5	-69.2	-20.5	-16.2	64.0	1.0	19.5	8.2	13.8	1.6
26.00	28.2	-62.3	-20.2	-15.2	29.9	1.0	19.5	7.8	13.6	1.7
26.50	28.4	-60.3	-20.8	-13.5	23.1	1.0	18.8	7.6	13.4	1.7
27.00	28.2	-55.6	-19.2	-11.6	13.2	0.9	17.8	7.1	13.3	1.8
27.50	27.9	-57.2	-18.3	-9.5	15.6	0.9	17.5	6.5	12.9	1.9
28.00	27.5	-59.2	-15.3	-7.7	19.3	0.9	16.0	6.3	13.0	1.9
28.50	26.4	-58.6	-13.3	-6.8	19.2	0.8	16.4	5.8	12.2	1.9
29.00	25.1	-57.7	-12.9	-5.8	18.5	0.8	14.9	4.9	11.2	2.0
29.50	23.0	-60.0	-12.8	-4.6	27.2	0.7	13.5	4.3	10.5	2.1
30.00	21.0	-60.4	-13.4	-3.6	31.2	0.6	11.9	3.5	9.5	2.3

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS:  $V_{D1} = +4.0$  V,  $V_{D2} = +4.0$  V,  $V_{D3} = +4.0$  V,  $I_{D1} = 10.5$  mA,  $I_{D2} = 13.7$  mA,  $I_{D3} = 32.6$  mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	P <sub>SAT</sub> Output	Noise Figure
					K	Measure				
(GHz)	(dB)	(dB)	(dB)	(dB)			(dBm)	(dBm)	(dBm)	(dB)
5.00	22.8	-72.5	-8.0	-11.1	126.0	1.1	18.3	9.3	12.9	2.2
5.50	23.0	-66.6	-9.8	-10.9	66.4	1.0	18.9	9.5	13.0	1.9
6.00	23.1	-70.3	-11.3	-11.2	105.2	1.0	19.8	9.7	13.1	1.9
6.50	23.4	-72.0	-13.1	-11.1	127.9	1.0	19.8	10.2	13.5	1.7
7.00	23.8	-67.2	-15.4	-10.7	71.2	0.9	21.2	10.2	13.7	1.6
7.50	24.2	-66.5	-17.8	-10.3	63.5	0.9	21.0	10.6	14.1	1.6
8.00	24.6	-67.9	-19.2	-10.2	71.1	0.9	21.7	10.3	14.3	1.5
8.50	25.0	-61.6	-18.7	-10.5	33.3	0.9	22.2	10.4	14.7	1.5
9.00	25.3	-65.2	-16.8	-10.8	48.9	0.9	22.3	10.5	15.1	1.5
9.50	25.5	-69.8	-14.5	-10.9	79.3	0.9	22.1	10.4	15.4	1.4
10.00	25.7	-65.9	-12.7	-10.7	49.3	1.0	22.0	10.3	15.7	1.4
10.50	25.7	-63.1	-11.6	-10.5	35.0	1.0	21.9	10.4	15.8	1.5
11.00	25.8	-63.5	-11.0	-10.6	35.8	1.0	23.0	10.2	15.7	1.5
11.50	25.8	-62.7	-10.6	-11.0	32.4	1.0	22.0	10.1	15.8	1.5
12.00	25.9	-63.4	-10.7	-11.5	35.4	1.0	21.4	10.4	15.9	1.5
12.50	25.7	-62.1	-10.7	-11.9	31.2	1.0	22.1	10.3	15.9	1.5
13.00	25.6	-68.9	-11.6	-11.5	71.1	1.0	21.8	10.0	15.8	1.5
13.50	25.6	-70.3	-12.1	-10.8	83.7	1.0	20.9	10.0	15.8	1.5
14.00	25.2	-65.2	-11.7	-10.6	47.8	1.0	21.9	10.7	15.7	1.6
14.50	24.8	-62.7	-11.1	-10.9	37.3	1.0	22.6	11.4	15.6	1.6
15.00	24.8	-64.4	-10.1	-11.4	45.2	1.0	23.9	11.9	15.7	1.6
15.50	24.4	-62.0	-9.8	-11.5	35.7	1.0	23.6	12.2	15.8	1.6
16.00	24.7	-62.5	-10.2	-11.6	36.8	1.0	24.0	12.5	15.7	1.6
16.50	24.9	-64.3	-10.5	-11.6	44.9	1.0	24.3	12.3	15.7	1.6
17.00	25.0	-66.0	-10.4	-11.3	53.7	1.0	24.4	12.3	15.7	1.7
17.50	25.0	-62.0	-10.2	-11.2	33.6	1.0	23.7	12.4	15.5	1.7
18.00	25.3	-62.3	-10.2	-11.0	33.5	1.0	23.5	12.1	15.3	1.7
18.50	25.8	-60.0	-11.0	-11.2	25.1	1.0	23.3	12.2	15.4	1.6
19.00	26.3	-62.6	-11.8	-12.1	32.7	1.0	24.6	12.3	15.9	1.6
19.50	26.6	-64.5	-11.6	-12.9	39.6	1.0	25.3	12.3	15.9	1.6
20.00	26.8	-61.4	-11.2	-13.0	27.2	1.0	24.5	11.8	15.6	1.6
20.50	27.1	-63.9	-11.1	-13.0	35.0	1.0	24.3	11.7	15.8	1.6
21.00	27.5	-75.8	-11.8	-13.8	136.7	1.0	24.6	12.0	16.1	1.6
21.50	27.9	-67.6	-12.6	-16.2	52.8	1.0	24.9	11.7	15.8	1.5
22.00	28.2	-68.0	-12.4	-22.2	54.0	1.1	24.2	11.4	15.8	1.5
22.50	28.3	-68.3	-11.5	-23.9	54.7	1.1	23.7	11.3	15.8	1.5
23.00	28.4	-81.0	-11.1	-21.2	231.0	1.1	23.0	11.0	15.3	1.4
23.50	28.7	-76.7	-12.0	-20.1	139.6	1.1	23.5	10.7	15.1	1.5
24.00	29.0	-70.2	-14.0	-19.3	65.4	1.0	22.9	10.7	15.2	1.5
24.50	29.0	-75.8	-16.2	-18.3	125.5	1.0	23.4	10.6	15.5	1.5
25.00	29.3	-62.6	-18.6	-17.0	27.3	1.0	23.3	10.3	15.2	1.4
25.50	29.4	-72.0	-21.2	-15.7	80.3	1.0	23.6	9.9	15.0	1.4
26.00	29.1	-58.9	-21.0	-14.9	18.2	1.0	23.2	9.8	14.8	1.4
26.50	29.3	-61.6	-22.0	-13.3	23.8	1.0	22.5	9.5	14.6	1.5
27.00	29.2	-58.0	-20.3	-11.5	15.5	0.9	22.8	8.9	14.5	1.6
27.50	29.0	-63.8	-19.1	-9.4	29.4	0.9	20.1	8.6	14.1	1.6
28.00	28.7	-60.0	-15.3	-7.5	18.1	0.8	20.5	8.3	14.2	1.6
28.50	27.7	-57.6	-13.0	-6.5	14.5	0.8	20.2	7.8	13.3	1.7
29.00	26.4	-60.3	-12.4	-5.6	21.1	0.8	18.3	7.0	12.4	1.7
29.50	24.2	-60.7	-12.2	-4.4	24.8	0.7	17.5	6.5	11.7	1.9
30.00	22.2	-60.2	-12.9	-3.4	25.6	0.6	15.5	5.6	10.7	2.0

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS:  $V_{D1} = +3.5\text{ V}$ ,  $V_{D2} = +3.5\text{ V}$ ,  $V_{D3} = +3.5\text{ V}$ ,  $I_{D1} = 8.3\text{ mA}$ ,  $I_{D2} = 9.7\text{ mA}$ ,  $I_{D3} = 24.6\text{ mA}$  @ Temperature = 85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	P <sub>SAT</sub> Output	Noise Figure
					K	Measure				
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dB)
5.00	17.9	-78.7	-7.5	-12.4	459.9	1.1	15.8	9.0	10.4	4.3
5.50	18.4	-65.0	-9.1	-12.0	94.7	1.1	15.7	9.1	10.5	3.9
6.00	18.8	-69.5	-10.3	-12.3	159.2	1.0	16.0	9.0	10.7	3.7
6.50	19.2	-75.1	-11.5	-12.3	302.3	1.0	16.3	9.0	11.1	3.4
7.00	19.6	-66.3	-13.0	-11.9	106.3	1.0	17.2	8.5	11.4	3.3
7.50	20.0	-62.6	-14.5	-11.5	67.3	1.0	17.5	8.3	11.8	3.2
8.00	20.4	-64.8	-15.3	-11.5	82.8	1.0	17.8	7.9	12.0	3.1
8.50	20.8	-68.1	-15.0	-11.9	117.7	1.0	17.9	7.9	12.4	3.1
9.00	21.1	-70.1	-13.9	-12.3	144.4	1.0	18.2	7.8	12.8	3.1
9.50	21.2	-63.8	-12.7	-12.2	67.8	1.0	18.1	7.7	13.1	3.0
10.00	21.3	-63.2	-11.6	-11.7	61.8	1.0	17.7	7.6	13.3	3.1
10.50	21.3	-71.1	-10.9	-11.3	150.1	1.0	18.0	7.5	13.5	3.1
11.00	21.3	-63.3	-10.3	-11.5	60.8	1.0	18.0	7.3	13.4	3.1
11.50	21.3	-64.2	-9.9	-12.1	67.8	1.0	17.3	7.2	13.5	3.1
12.00	21.3	-63.9	-9.9	-12.8	66.4	1.0	16.8	7.4	13.6	3.2
12.50	21.1	-66.1	-9.9	-13.1	87.7	1.0	17.3	7.2	13.6	3.2
13.00	21.0	-70.2	-10.4	-12.5	143.6	1.0	17.1	7.1	13.5	3.2
13.50	20.8	-71.6	-10.8	-11.6	170.8	1.0	16.9	7.3	13.5	3.3
14.00	20.4	-75.1	-11.0	-11.5	272.3	1.0	17.5	8.1	13.5	3.3
14.50	20.3	-65.9	-10.8	-11.3	95.4	1.0	18.6	8.7	13.3	3.3
15.00	20.1	-74.4	-10.2	-11.7	256.7	1.0	18.7	9.1	13.4	3.4
15.50	20.0	-65.8	-9.7	-12.2	95.9	1.0	18.6	9.2	13.5	3.5
16.00	20.2	-67.5	-9.3	-13.0	116.0	1.1	19.3	9.5	13.5	3.5
16.50	20.2	-65.9	-9.2	-13.3	95.5	1.1	19.3	9.3	13.5	3.5
17.00	20.4	-64.2	-9.5	-12.9	78.3	1.1	19.4	9.1	13.5	3.5
17.50	20.5	-61.0	-10.0	-12.5	53.8	1.0	19.2	9.1	13.3	3.6
18.00	20.9	-60.5	-10.5	-12.5	49.6	1.0	19.9	9.0	13.1	3.5
18.50	21.3	-66.3	-10.9	-13.4	94.3	1.0	19.4	8.9	13.4	3.5
19.00	21.6	-65.1	-11.0	-14.9	81.0	1.0	19.4	8.9	13.7	3.5
19.50	21.8	-58.9	-10.9	-15.6	38.8	1.1	19.3	9.0	13.6	3.5
20.00	22.0	-60.0	-11.0	-15.2	42.9	1.0	19.3	8.6	13.5	3.5
20.50	22.3	-65.8	-11.1	-15.4	81.6	1.0	19.2	8.3	13.6	3.4
21.00	22.6	-63.0	-11.2	-17.2	58.0	1.1	19.1	8.4	13.8	3.5
21.50	22.9	-61.7	-11.2	-21.4	49.3	1.1	19.0	8.3	13.7	3.4
22.00	23.1	-64.9	-11.1	-27.7	70.4	1.1	18.3	8.0	13.6	3.4
22.50	23.2	-65.6	-11.1	-23.6	75.3	1.1	18.4	7.7	13.6	3.4
23.00	23.3	-76.9	-11.4	-19.9	275.8	1.1	18.4	7.5	13.3	3.4
23.50	23.5	-68.2	-12.5	-17.5	100.1	1.0	18.2	7.2	13.0	3.4
24.00	23.5	-68.5	-14.4	-15.9	104.5	1.0	17.9	6.8	13.0	3.4
24.50	23.5	-77.1	-16.8	-15.4	287.3	1.0	17.5	6.5	13.1	3.4
25.00	23.5	-66.2	-19.3	-15.4	83.6	1.0	16.7	6.1	12.9	3.4
25.50	23.4	-66.0	-20.0	-15.3	83.6	1.0	16.3	5.6	12.7	3.4
26.00	22.9	-60.3	-18.1	-14.1	45.4	1.0	15.4	4.9	12.4	3.5
26.50	22.6	-64.2	-17.3	-11.9	71.2	1.0	14.8	4.4	12.0	3.7
27.00	21.9	-62.1	-16.0	-9.9	57.8	0.9	13.8	3.6	11.7	3.7
27.50	21.0	-67.9	-15.4	-8.6	120.1	0.9	12.6	3.0	10.9	3.8
28.00	19.9	-60.1	-14.7	-7.9	53.9	0.9	12.1	2.4	10.7	3.9
28.50	18.6	-68.4	-14.4	-7.5	161.6	0.9	11.4	1.7	10.0	4.1
29.00	16.9	-64.4	-14.4	-6.8	117.8	0.8	9.8	0.7	8.8	4.3
29.50	15.0	-56.6	-14.7	-5.7	55.7	0.8	8.2	-0.2	7.7	4.5
30.00	13.2	-61.6	-15.7	-4.9	114.2	0.7	6.3	-1.3	6.4	4.8

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS:  $V_{D1} = +4.0V$ ,  $V_{D2} = +4.0V$ ,  $V_{D3} = +4.0V$ ,  $I_{D1} = 10.0mA$ ,  $I_{D2} = 11.9mA$ ,  $I_{D3} = 30.3mA$  @ Temperature = 85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	P <sub>SAT</sub> Output	Noise Figure
					K	Measure				
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dB)
5.00	19.3	-71.2	-8.0	-12.0	167.7	1.1	17.2	10.3	11.5	3.9
5.50	19.8	-66.0	-9.8	-11.7	92.3	1.0	17.4	10.3	11.6	3.6
6.00	20.1	-72.4	-11.0	-12.0	194.5	1.0	17.9	10.1	11.8	3.4
6.50	20.4	-69.1	-12.3	-12.0	132.2	1.0	18.4	10.1	12.3	3.2
7.00	20.9	-64.6	-13.9	-11.6	76.2	1.0	19.0	10.0	12.7	3.1
7.50	21.3	-66.9	-15.6	-11.3	95.8	1.0	19.8	10.0	13.1	3.0
8.00	21.7	-69.2	-16.5	-11.2	119.2	0.9	20.3	9.7	13.2	3.0
8.50	22.0	-63.0	-16.0	-11.6	56.9	1.0	20.4	9.7	13.6	2.9
9.00	22.3	-62.5	-14.7	-12.0	52.1	1.0	20.9	9.8	14.0	2.9
9.50	22.5	-63.8	-13.2	-11.9	58.8	1.0	20.4	9.7	14.3	2.8
10.00	22.6	-68.6	-12.1	-11.5	99.7	1.0	20.3	9.6	14.5	2.9
10.50	22.6	-65.7	-11.3	-11.1	69.7	1.0	20.5	9.5	14.6	2.9
11.00	22.6	-64.9	-10.7	-11.2	63.0	1.0	20.8	9.4	14.5	2.9
11.50	22.6	-68.0	-10.3	-11.9	90.5	1.0	20.4	9.2	14.6	2.9
12.00	22.6	-62.3	-10.3	-12.5	47.7	1.0	19.5	9.5	14.8	3.0
12.50	22.4	-64.9	-10.4	-12.8	66.5	1.0	20.2	9.3	14.8	3.0
13.00	22.3	-76.9	-10.9	-12.2	270.0	1.0	19.7	9.1	14.6	3.0
13.50	22.2	-67.0	-11.3	-11.4	86.4	1.0	19.4	9.4	14.5	3.0
14.00	21.7	-76.1	-11.5	-11.3	263.4	1.0	20.4	10.0	14.5	3.1
14.50	21.6	-66.4	-11.3	-11.1	86.6	1.0	20.9	10.8	14.4	3.1
15.00	21.5	-63.2	-10.7	-11.4	60.7	1.0	21.6	10.9	14.4	3.2
15.50	21.3	-72.2	-10.1	-11.8	173.1	1.0	21.3	11.2	14.6	3.2
16.00	21.5	-69.0	-9.7	-12.5	118.4	1.0	22.1	11.5	14.6	3.3
16.50	21.6	-65.0	-9.6	-12.8	74.0	1.1	22.3	11.3	14.5	3.3
17.00	21.7	-61.5	-9.9	-12.5	49.1	1.0	22.0	11.2	14.6	3.3
17.50	21.9	-61.9	-10.4	-12.1	51.3	1.0	22.1	11.1	14.5	3.3
18.00	22.2	-63.9	-11.0	-11.9	62.7	1.0	22.2	10.9	14.2	3.3
18.50	22.6	-64.5	-11.4	-12.6	65.7	1.0	22.3	10.9	14.4	3.3
19.00	23.0	-62.8	-11.5	-14.0	52.5	1.0	21.7	11.0	14.7	3.3
19.50	23.3	-65.2	-11.4	-14.6	67.8	1.0	21.1	11.0	14.7	3.2
20.00	23.5	-67.6	-11.5	-14.5	87.9	1.0	22.0	10.7	14.5	3.2
20.50	23.8	-63.3	-11.6	-14.6	52.1	1.0	21.7	10.4	14.6	3.2
21.00	24.1	-67.7	-11.8	-16.2	85.5	1.0	21.2	10.5	14.8	3.2
21.50	24.3	-66.3	-11.7	-19.9	71.4	1.1	21.4	10.3	14.7	3.2
22.00	24.5	-65.4	-11.5	-26.8	63.6	1.1	22.3	10.1	14.5	3.1
22.50	24.7	-72.4	-11.5	-24.1	141.1	1.1	20.8	9.8	14.5	3.2
23.00	24.8	-66.9	-11.9	-20.2	73.8	1.1	20.5	9.7	14.1	3.1
23.50	25.0	-69.1	-13.1	-17.6	93.8	1.0	20.9	9.3	13.8	3.2
24.00	25.1	-69.3	-15.0	-16.0	96.4	1.0	21.5	9.0	14.0	3.2
24.50	25.1	-69.2	-17.7	-15.3	96.9	1.0	21.2	8.8	14.2	3.2
25.00	25.2	-65.6	-20.4	-15.2	64.5	1.0	20.8	8.5	14.0	3.2
25.50	25.1	-63.7	-21.2	-15.2	52.6	1.0	20.4	8.0	13.8	3.2
26.00	24.7	-60.9	-19.3	-14.2	39.5	1.0	19.4	7.4	13.5	3.3
26.50	24.5	-62.6	-18.4	-11.9	47.8	0.9	18.8	6.9	13.2	3.4
27.00	23.9	-57.3	-17.0	-9.9	26.5	0.9	17.6	6.2	13.0	3.5
27.50	23.2	-62.5	-16.1	-8.4	50.2	0.9	16.5	5.6	12.2	3.5
28.00	22.2	-62.2	-14.9	-7.6	52.7	0.9	16.1	5.1	12.0	3.6
28.50	20.9	-58.0	-14.5	-7.2	37.0	0.8	15.4	4.6	11.3	3.7
29.00	19.2	-61.4	-14.4	-6.6	63.9	0.8	13.8	3.5	10.2	3.9
29.50	17.2	-73.5	-14.5	-5.5	297.6	0.7	12.3	2.6	9.1	4.1
30.00	15.3	-59.2	-15.5	-4.7	66.3	0.7	10.4	1.5	7.8	4.3

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS:  $V_{D1} = +3.5\text{ V}$ ,  $V_{D2} = +3.5\text{ V}$ ,  $V_{D3} = +3.5\text{ V}$ ,  $I_{D1} = 8.1\text{ mA}$ ,  $I_{D2} = 9.5\text{ mA}$ ,  $I_{D3} = 24.4\text{ mA}$  @ Temperature = 105°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	P <sub>SAT</sub> Output	Noise Figure
					K	Measure				
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dB)
5.00	17.3	-74.5	-7.5	-12.5	306.5	1.1	15.5	8.9	10.0	4.6
5.50	17.9	-72.3	-9.1	-12.2	235.4	1.1	15.4	9.0	10.1	4.2
6.00	18.2	-72.7	-10.2	-12.5	248.5	1.0	15.7	8.9	10.4	4.0
6.50	18.7	-72.5	-11.4	-12.5	239.3	1.0	16.0	8.9	10.9	3.7
7.00	19.1	-66.9	-12.9	-12.1	120.9	1.0	16.8	8.2	11.1	3.5
7.50	19.5	-69.5	-14.2	-11.7	157.1	1.0	17.2	8.2	11.5	3.4
8.00	19.9	-69.7	-15.0	-11.7	156.4	1.0	17.3	7.6	11.7	3.3
8.50	20.3	-69.8	-14.7	-12.1	153.1	1.0	17.3	7.6	12.1	3.3
9.00	20.5	-65.7	-13.7	-12.4	92.3	1.0	17.9	7.5	12.5	3.3
9.50	20.7	-72.3	-12.5	-12.2	193.3	1.0	17.4	7.4	12.8	3.3
10.00	20.7	-63.4	-11.5	-11.8	67.3	1.0	17.5	7.2	13.1	3.3
10.50	20.8	-68.4	-10.9	-11.5	117.4	1.0	17.7	7.3	13.2	3.3
11.00	20.8	-65.4	-10.3	-11.7	82.8	1.0	17.7	7.0	13.2	3.3
11.50	20.7	-66.9	-9.9	-12.4	98.8	1.0	17.1	7.0	13.2	3.4
12.00	20.7	-66.2	-9.8	-13.0	92.4	1.1	16.6	7.0	13.4	3.4
12.50	20.5	-67.4	-9.9	-13.1	109.6	1.0	16.8	6.8	13.4	3.4
13.00	20.4	-73.7	-10.3	-12.4	230.7	1.0	16.6	6.8	13.2	3.4
13.50	20.2	-67.6	-10.7	-11.6	116.4	1.0	16.4	7.1	13.2	3.5
14.00	19.8	-73.1	-10.9	-11.6	233.7	1.0	17.4	7.7	13.2	3.6
14.50	19.7	-65.4	-10.8	-11.4	97.0	1.0	18.3	8.5	13.1	3.6
15.00	19.6	-65.8	-10.3	-11.8	101.9	1.0	18.7	8.7	13.2	3.7
15.50	19.4	-63.9	-9.8	-12.2	83.1	1.0	18.4	9.0	13.3	3.7
16.00	19.6	-66.9	-9.4	-13.0	116.7	1.1	19.0	9.1	13.3	3.8
16.50	19.7	-64.3	-9.2	-13.5	85.6	1.1	19.1	8.9	13.3	3.8
17.00	19.8	-65.7	-9.5	-13.2	99.5	1.1	18.8	8.9	13.3	3.8
17.50	20.0	-61.5	-9.9	-12.8	61.2	1.0	18.9	8.9	13.2	3.8
18.00	20.3	-60.8	-10.5	-12.7	55.0	1.0	19.5	8.7	12.9	3.8
18.50	20.7	-59.6	-11.0	-13.5	47.2	1.0	19.1	8.7	13.2	3.8
19.00	21.0	-63.8	-11.2	-14.9	75.0	1.0	18.9	8.6	13.4	3.8
19.50	21.3	-59.9	-11.1	-15.6	46.8	1.0	19.2	8.6	13.4	3.8
20.00	21.5	-62.0	-11.1	-15.4	58.8	1.0	19.0	8.4	13.2	3.8
20.50	21.8	-62.9	-11.2	-15.7	63.5	1.0	18.8	8.1	13.3	3.7
21.00	22.1	-62.8	-11.3	-17.5	61.5	1.1	18.6	8.2	13.5	3.7
21.50	22.3	-61.5	-11.1	-21.9	52.2	1.1	18.9	7.9	13.4	3.7
22.00	22.5	-62.6	-11.0	-27.4	58.9	1.1	18.4	7.7	13.3	3.7
22.50	22.6	-71.9	-11.1	-23.0	170.1	1.1	18.1	7.4	13.3	3.7
23.00	22.7	-69.5	-11.6	-19.2	127.0	1.1	18.0	7.3	13.0	3.7
23.50	22.8	-66.6	-12.8	-16.8	90.4	1.0	17.8	6.9	12.7	3.7
24.00	22.9	-72.2	-14.8	-15.4	175.0	1.0	17.2	6.4	12.8	3.7
24.50	22.8	-70.9	-17.4	-14.9	154.4	1.0	16.9	6.2	12.9	3.7
25.00	22.8	-66.0	-19.6	-15.2	89.5	1.0	16.5	5.7	12.7	3.7
25.50	22.7	-62.5	-19.6	-15.4	61.0	1.0	15.8	5.1	12.5	3.8
26.00	22.2	-61.2	-17.7	-14.1	55.0	1.0	15.0	4.5	12.1	3.9
26.50	21.7	-60.3	-16.7	-11.8	50.7	1.0	14.3	3.9	11.7	4.0
27.00	21.1	-60.1	-15.7	-9.6	50.9	0.9	13.1	3.1	11.4	4.1
27.50	20.1	-58.2	-15.3	-8.3	43.5	0.9	11.9	2.4	10.5	4.2
28.00	19.0	-77.9	-14.9	-7.7	470.2	0.9	11.2	1.8	10.3	4.3
28.50	17.7	-62.1	-14.8	-7.6	88.4	0.9	10.5	1.3	9.6	4.5
29.00	16.0	-63.7	-15.0	-7.0	125.4	0.8	9.0	0.2	8.4	4.7
29.50	14.1	-60.1	-15.0	-5.9	96.0	0.8	7.6	-0.8	7.3	5.0
30.00	12.2	-60.5	-15.7	-5.0	115.5	0.7	5.4	-1.9	5.9	5.3

*Typical Performance Data*

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS:  $V_{D1} = +4.0$  V,  $V_{D2} = +4.0$  V,  $V_{D3} = +4.0$  V,  $I_{D1} = 9.9$  mA,  $I_{D2} = 11.8$  mA,  $I_{D3} = 30.0$  mA @ Temperature = 105°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	P <sub>SAT</sub> Output	Noise Figure
					K	Measure				
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dB)
5.00	18.8	-67.0	-8.0	-12.1	110.1	1.1	17.0	10.0	11.2	4.3
5.50	19.3	-70.6	-9.7	-11.8	168.2	1.0	17.0	10.0	11.3	3.9
6.00	19.6	-70.3	-10.9	-12.2	163.5	1.0	17.6	9.9	11.6	3.7
6.50	20.0	-77.4	-12.2	-12.2	362.5	1.0	18.0	9.8	12.1	3.4
7.00	20.4	-66.0	-13.8	-11.8	95.1	1.0	18.9	9.8	12.4	3.3
7.50	20.8	-71.4	-15.3	-11.4	170.8	1.0	19.6	9.7	12.7	3.2
8.00	21.2	-64.9	-16.1	-11.4	77.1	0.9	19.4	9.4	12.9	3.1
8.50	21.6	-69.3	-15.6	-11.8	124.5	1.0	19.8	9.4	13.3	3.1
9.00	21.8	-65.1	-14.4	-12.2	74.8	1.0	20.4	9.5	13.7	3.1
9.50	22.0	-64.2	-13.1	-11.9	65.3	1.0	20.0	9.4	13.9	3.1
10.00	22.1	-66.9	-12.0	-11.5	86.7	1.0	19.7	9.3	14.1	3.1
10.50	22.1	-67.6	-11.3	-11.2	92.1	1.0	20.6	9.2	14.3	3.1
11.00	22.1	-72.0	-10.7	-11.4	151.9	1.0	20.7	9.1	14.2	3.1
11.50	22.1	-66.5	-10.3	-12.1	81.0	1.0	19.8	8.9	14.3	3.1
12.00	22.1	-67.0	-10.2	-12.7	87.7	1.0	19.2	9.1	14.5	3.2
12.50	21.9	-66.6	-10.3	-12.8	86.0	1.0	19.4	8.9	14.4	3.2
13.00	21.8	-72.5	-10.8	-12.2	172.6	1.0	19.2	8.8	14.3	3.2
13.50	21.6	-64.7	-11.2	-11.4	71.3	1.0	19.2	9.1	14.1	3.3
14.00	21.2	-75.8	-11.4	-11.4	270.8	1.0	19.4	9.8	14.2	3.3
14.50	21.1	-65.4	-11.3	-11.2	82.7	1.0	20.9	10.4	14.1	3.3
15.00	21.0	-68.1	-10.7	-11.5	114.3	1.0	21.1	10.6	14.2	3.4
15.50	20.8	-64.4	-10.2	-11.9	75.9	1.0	20.8	10.9	14.3	3.5
16.00	21.0	-68.2	-9.8	-12.5	115.2	1.0	21.5	11.2	14.4	3.5
16.50	21.1	-65.4	-9.7	-13.0	83.1	1.1	21.9	11.0	14.3	3.5
17.00	21.2	-62.5	-9.9	-12.7	58.8	1.0	21.3	10.8	14.4	3.5
17.50	21.4	-61.7	-10.3	-12.3	53.3	1.0	21.4	10.8	14.2	3.5
18.00	21.7	-60.6	-10.9	-12.1	45.9	1.0	22.3	10.8	13.9	3.5
18.50	22.1	-62.9	-11.4	-12.7	58.3	1.0	21.7	10.6	14.1	3.5
19.00	22.5	-61.8	-11.7	-14.0	50.2	1.0	21.7	10.7	14.4	3.5
19.50	22.8	-62.3	-11.6	-14.7	52.6	1.0	21.3	10.8	14.4	3.5
20.00	23.0	-62.9	-11.6	-14.7	54.8	1.0	21.2	10.3	14.2	3.5
20.50	23.2	-62.4	-11.7	-14.9	50.4	1.0	21.5	10.3	14.3	3.5
21.00	23.6	-64.5	-11.8	-16.5	63.1	1.0	21.1	10.3	14.5	3.4
21.50	23.8	-65.0	-11.6	-20.5	65.9	1.1	21.0	10.1	14.4	3.4
22.00	24.0	-66.2	-11.4	-26.7	74.4	1.1	21.3	9.8	14.2	3.4
22.50	24.1	-70.0	-11.5	-23.5	114.6	1.1	20.9	9.5	14.2	3.4
23.00	24.3	-78.4	-12.0	-19.4	299.3	1.1	20.2	9.3	13.9	3.4
23.50	24.4	-79.0	-13.3	-16.9	317.6	1.0	21.5	9.1	13.6	3.4
24.00	24.5	-83.4	-15.4	-15.4	528.5	1.0	20.8	8.7	13.7	3.5
24.50	24.5	-74.0	-18.3	-14.8	182.8	1.0	20.8	8.5	13.9	3.4
25.00	24.6	-64.2	-20.7	-15.1	59.5	1.0	19.8	8.1	13.7	3.4
25.50	24.5	-63.0	-20.7	-15.3	53.0	1.0	19.7	7.7	13.5	3.5
26.00	24.1	-64.1	-18.6	-14.2	62.3	1.0	18.7	7.1	13.3	3.6
26.50	23.7	-60.5	-17.8	-11.8	40.9	0.9	18.4	6.4	12.8	3.7
27.00	23.2	-59.7	-16.5	-9.6	38.3	0.9	17.0	5.7	12.6	3.8
27.50	22.3	-56.7	-15.8	-8.1	28.4	0.9	15.3	5.1	11.8	3.8
28.00	21.3	-59.2	-15.1	-7.5	41.5	0.8	14.4	4.6	11.6	3.9
28.50	19.9	-55.8	-14.9	-7.3	32.3	0.8	14.6	4.1	11.0	4.1
29.00	18.3	-59.3	-14.8	-6.8	57.2	0.8	12.9	3.0	9.8	4.3
29.50	16.3	-62.8	-14.7	-5.7	99.6	0.8	11.5	2.1	8.8	4.5
30.00	14.4	-69.3	-15.5	-4.8	244.0	0.7	9.6	0.9	7.5	4.8

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-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management