

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: $V_{D1} = +3.5\text{ V}$, $V_{D2} = +3.5\text{ V}$, $V_{D3A} \& V_{D3B} = +3.5\text{ V}$, $I_{D1} = 7.5\text{ mA}$, $I_{D2} = 9.7\text{ mA}$, $I_{D3A} \& I_{D3B} = 25.2\text{ mA}$ @ Temperature = +25°C

FREQ (GHz)	Gain (dB)	Isolation (dB)	Input Return Loss (dB)	Output Return Loss (dB)	Stability		IP-3 Output (dBm)	1dB Comp. Output (dBm)	P _{SAT} Output (dBm)	Noise Figure (dB)
					K	Measure				
5.0	19.3	-73.7	-6.1	-11.8	183.5	1.2	16.9	9.3	11.2	3.3
5.5	19.8	-73.1	-7.7	-11.0	176.7	1.1	16.6	9.1	11.0	2.9
6.0	20.1	-64.6	-9.4	-10.6	67.2	1.0	17.2	8.9	11.0	2.7
6.5	20.5	-71.1	-10.9	-10.3	142.2	1.0	17.9	9.3	11.6	2.5
7.0	20.8	-70.3	-12.2	-10.4	126.6	1.0	18.2	9.3	12.0	2.3
7.5	21.2	-67.1	-13.1	-10.4	84.9	1.0	19.2	8.9	12.4	2.3
8.0	21.6	-68.0	-13.4	-10.4	90.9	1.0	20.2	8.5	12.6	2.2
8.5	21.9	-74.6	-13.1	-10.3	186.6	1.0	19.2	8.6	13.0	2.2
9.0	22.1	-66.6	-12.4	-10.2	71.6	1.0	19.8	8.3	13.4	2.2
9.5	22.3	-71.1	-11.5	-10.2	115.4	1.0	19.8	8.2	13.7	2.1
10.0	22.4	-69.0	-10.7	-10.4	89.6	1.0	19.6	8.1	14.0	2.1
10.5	22.4	-83.5	-10.1	-10.4	464.0	1.0	19.0	8.0	14.2	2.1
11.0	22.5	-66.4	-9.6	-10.5	64.0	1.0	19.6	7.8	14.2	2.2
11.5	22.6	-65.2	-9.1	-10.7	54.2	1.0	19.6	8.0	14.3	2.2
12.0	22.6	-61.9	-8.5	-11.0	36.1	1.0	19.1	7.8	14.3	2.2
12.5	22.6	-60.1	-8.2	-11.1	29.4	1.1	19.9	7.7	14.2	2.3
13.0	22.4	-61.2	-8.1	-11.0	33.7	1.1	18.7	7.7	14.4	2.3
13.5	22.2	-55.8	-8.3	-10.8	18.6	1.1	18.8	7.5	14.2	2.3
14.0	22.0	-58.4	-8.5	-10.4	25.7	1.0	19.4	8.1	14.3	2.4
14.5	21.8	-62.5	-8.5	-10.3	41.6	1.0	19.5	8.9	14.4	2.4
15.0	21.7	-63.2	-8.6	-10.2	46.2	1.0	20.6	9.6	14.3	2.4
15.5	21.6	-68.1	-8.6	-10.1	82.2	1.0	21.1	10.0	14.2	2.4
16.0	21.5	-72.4	-8.8	-10.1	136.6	1.0	20.8	9.9	14.1	2.4
16.5	21.5	-68.3	-9.1	-9.9	85.5	1.0	21.4	9.7	14.1	2.5
17.0	21.6	-70.7	-9.3	-9.7	112.1	1.0	20.7	9.9	14.3	2.5
17.5	21.7	-68.9	-9.6	-9.7	91.1	1.0	21.4	10.1	14.4	2.4
18.0	21.9	-59.2	-10.2	-9.5	29.6	1.0	21.1	10.0	14.2	2.5
18.5	22.0	-61.2	-10.4	-9.8	36.9	1.0	22.0	9.6	13.8	2.4
19.0	22.4	-63.7	-11.1	-9.8	47.6	1.0	20.5	9.6	13.8	2.4
19.5	22.8	-60.4	-11.6	-10.0	32.0	1.0	21.6	9.7	14.2	2.4
20.0	23.3	-56.0	-12.2	-10.2	18.3	1.0	20.8	9.7	14.6	2.4
20.5	23.7	-56.3	-12.7	-10.6	18.3	1.0	20.7	9.7	14.7	2.3
21.0	24.1	-56.7	-13.0	-11.4	18.8	1.0	21.5	9.6	14.6	2.3
21.5	24.4	-56.4	-13.5	-12.4	17.9	1.0	19.9	9.1	14.6	2.3
22.0	24.7	-54.8	-13.9	-13.5	14.6	1.0	21.2	8.9	14.8	2.3
22.5	25.0	-55.1	-14.1	-14.8	14.9	1.0	20.7	8.8	15.1	2.3
23.0	25.2	-57.6	-14.6	-15.4	19.5	1.0	20.6	8.6	15.2	2.3
23.5	25.4	-54.6	-14.6	-15.5	13.5	1.0	19.6	8.5	15.2	2.3
24.0	25.4	-55.1	-14.3	-15.1	14.2	1.0	20.6	8.4	14.6	2.2
24.5	25.5	-55.4	-14.3	-14.1	14.5	1.0	20.1	8.0	14.1	2.3
25.0	25.3	-53.7	-14.5	-13.6	12.0	1.0	19.5	7.9	14.3	2.4
25.5	25.2	-53.8	-14.3	-12.5	12.3	1.0	19.3	7.7	14.6	2.4
26.0	25.1	-56.1	-14.7	-11.5	15.9	1.0	18.5	7.4	14.6	2.4
26.5	24.9	-60.1	-15.3	-10.6	25.4	0.9	18.7	7.3	14.3	2.4
27.0	24.6	-56.2	-16.0	-9.8	16.7	0.9	17.7	6.8	13.6	2.5
27.5	24.1	-58.3	-17.3	-8.7	21.5	0.9	17.5	6.0	13.2	2.6
28.0	23.7	-54.1	-18.6	-7.3	13.4	0.8	16.2	5.7	13.6	2.8
28.5	22.8	-52.6	-17.4	-6.2	11.5	0.8	15.6	5.5	13.8	2.9
29.0	21.7	-52.2	-14.5	-5.4	11.6	0.7	14.8	5.2	13.1	3.0
29.5	20.4	-51.9	-11.8	-4.9	11.9	0.7	16.4	4.2	11.6	3.3
30.0	18.8	-54.6	-9.9	-4.3	17.5	0.7	14.8	3.5	11.2	3.6

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: $V_{D1} = +4.0\text{ V}$, $V_{D2} = +4.0\text{ V}$, $V_{D3A} \& V_{D3B} = +4.0\text{ V}$, $I_{D1} = 9.5\text{ mA}$, $I_{D2} = 12.3\text{ mA}$, $I_{D3A} \& V_{D3B} = 31.3\text{ mA}$ @ Temperature = +25°C

FREQ (GHz)	Gain (dB)	Isolation (dB)	Input Return Loss (dB)	Output Return Loss (dB)	Stability		IP-3 Output (dBm)	1dB Comp. Output (dBm)	P _{SAT} Output (dBm)	Noise Figure (dB)
					K	Measure				
5.0	20.8	-82.3	-6.6	-11.4	429.8	1.1	18.5	10.9	12.4	3.0
5.5	21.2	-70.8	-8.4	-10.7	118.1	1.0	18.5	10.4	12.2	2.6
6.0	21.4	-69.3	-10.2	-10.3	101.0	1.0	19.1	10.2	12.2	2.5
6.5	21.7	-78.3	-11.8	-10.1	284.1	1.0	20.1	10.7	12.9	2.3
7.0	22.1	-80.8	-13.0	-10.1	370.3	0.9	20.3	10.9	13.3	2.1
7.5	22.5	-67.1	-13.9	-10.1	73.8	0.9	21.6	10.8	13.7	2.1
8.0	22.9	-71.6	-14.3	-10.1	118.1	0.9	22.5	10.5	13.9	2.1
8.5	23.2	-68.5	-14.1	-10.1	80.0	0.9	21.8	10.7	14.3	2.0
9.0	23.4	-64.9	-13.2	-9.9	50.8	0.9	22.4	10.5	14.6	2.0
9.5	23.6	-70.9	-12.2	-9.9	98.7	1.0	22.3	10.4	14.9	2.0
10.0	23.7	-67.5	-11.4	-10.0	65.3	1.0	22.7	10.3	15.2	1.9
10.5	23.7	-67.2	-10.7	-10.1	61.4	1.0	21.4	10.3	15.3	2.0
11.0	23.8	-65.9	-10.1	-10.3	52.3	1.0	21.8	10.1	15.4	2.0
11.5	23.9	-61.2	-9.6	-10.4	29.8	1.0	22.0	10.3	15.5	2.0
12.0	24.0	-60.6	-8.9	-10.7	26.9	1.0	22.0	10.0	15.4	2.1
12.5	24.0	-60.2	-8.6	-10.8	25.8	1.0	22.9	10.1	15.4	2.0
13.0	23.8	-58.4	-8.5	-10.8	21.2	1.0	21.5	10.0	15.6	2.1
13.5	23.6	-57.4	-8.7	-10.6	19.2	1.0	21.2	9.7	15.3	2.2
14.0	23.4	-58.4	-9.1	-10.2	22.1	1.0	22.2	10.4	15.4	2.2
14.5	23.3	-61.4	-9.0	-10.1	32.0	1.0	21.8	11.1	15.5	2.2
15.0	23.1	-61.5	-9.1	-9.9	32.5	1.0	23.1	11.7	15.4	2.2
15.5	23.0	-64.1	-9.2	-9.8	44.4	1.0	23.2	12.2	15.3	2.2
16.0	22.9	-66.8	-9.4	-9.8	62.0	1.0	23.2	12.2	15.2	2.2
16.5	22.9	-66.1	-9.7	-9.5	57.1	1.0	24.4	11.9	15.2	2.3
17.0	23.0	-87.1	-9.9	-9.3	637.4	1.0	23.4	12.1	15.4	2.2
17.5	23.1	-72.7	-10.2	-9.3	120.1	1.0	25.1	12.4	15.6	2.3
18.0	23.2	-66.4	-11.0	-9.1	57.9	0.9	24.5	12.2	15.4	2.2
18.5	23.4	-66.2	-11.2	-9.3	56.0	0.9	23.2	11.8	15.0	2.2
19.0	23.8	-59.8	-12.0	-9.2	26.2	0.9	23.6	11.8	14.9	2.2
19.5	24.2	-62.4	-12.6	-9.4	34.1	0.9	24.6	11.9	15.3	2.2
20.0	24.7	-59.7	-13.3	-9.5	23.9	0.9	23.7	11.9	15.6	2.1
20.5	25.2	-57.7	-13.9	-9.8	18.1	0.9	23.1	11.9	15.8	2.1
21.0	25.5	-58.2	-14.3	-10.6	18.9	0.9	23.6	11.6	15.5	2.1
21.5	25.9	-56.9	-14.8	-11.6	16.1	1.0	22.6	11.4	15.5	2.1
22.0	26.2	-55.8	-15.2	-12.6	13.8	1.0	23.6	11.2	15.8	2.1
22.5	26.5	-56.5	-15.3	-14.0	14.7	1.0	24.0	11.1	16.0	2.1
23.0	26.7	-56.9	-15.9	-14.7	15.2	1.0	24.2	10.9	16.1	2.1
23.5	26.9	-56.0	-15.9	-14.9	13.3	1.0	23.0	10.8	16.1	2.1
24.0	27.0	-54.6	-15.4	-14.6	11.2	1.0	23.0	10.6	15.5	2.1
24.5	27.1	-55.8	-15.1	-13.8	12.7	1.0	23.8	10.3	15.1	2.2
25.0	27.0	-53.9	-15.2	-13.2	10.2	1.0	23.2	10.2	15.3	2.2
25.5	26.9	-54.4	-14.7	-12.2	10.8	1.0	23.4	10.1	15.6	2.2
26.0	26.9	-56.6	-14.9	-11.1	13.7	1.0	21.6	9.9	15.7	2.2
26.5	26.8	-57.8	-15.6	-10.3	15.7	0.9	22.8	9.7	15.4	2.2
27.0	26.5	-60.6	-16.2	-9.6	22.0	0.9	21.9	9.2	14.7	2.3
27.5	26.3	-54.5	-17.7	-8.4	10.8	0.9	21.6	8.5	14.3	2.4
28.0	26.0	-52.3	-21.0	-6.9	8.2	0.8	21.2	8.2	14.8	2.5
28.5	25.3	-52.3	-21.7	-5.7	8.2	0.7	19.5	8.0	15.1	2.6
29.0	24.3	-52.1	-17.0	-4.8	8.2	0.7	18.6	7.9	14.3	2.8
29.5	23.0	-53.7	-13.2	-4.3	10.4	0.7	20.3	6.9	12.7	2.9
30.0	21.4	-52.3	-10.6	-3.7	9.4	0.6	19.4	6.0	12.3	3.2

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: $V_{D1} = +5.0$ V, $V_{D2} = +5.0$ V, V_{D3A} & $V_{D3B} = +5.0$ V, $I_{D1} = 13.5$ mA, $I_{D2} = 17.8$ mA, I_{D3A} & $V_{D3B} = 42.9$ mA @ Temperature = +25°C

FREQ (GHz)	Gain (dB)	Isolation (dB)	Input Return Loss (dB)	Output Return Loss (dB)	Stability		IP-3 Output (dBm)	1dB Comp. Output (dBm)	P _{SAT} Output (dBm)	Noise Figure (dB)
					K	Measure				
5.0	22.6	-74.8	-7.4	-11.0	153.4	1.1	20.8	12.7	14.1	2.6
5.5	22.8	-76.3	-9.4	-10.4	189.8	1.0	21.5	12.3	14.0	2.3
6.0	23.0	-74.4	-11.2	-10.0	155.0	1.0	22.4	12.3	14.0	2.2
6.5	23.2	-67.7	-12.8	-9.8	71.1	0.9	22.8	13.0	14.6	2.1
7.0	23.6	-71.8	-13.9	-9.8	111.3	0.9	23.5	13.3	14.9	1.9
7.5	24.0	-73.4	-14.9	-9.8	128.4	0.9	24.1	13.5	15.4	1.9
8.0	24.4	-68.3	-15.5	-9.8	68.6	0.9	25.1	13.2	15.6	1.9
8.5	24.7	-66.6	-15.3	-9.7	54.1	0.9	25.1	13.4	15.9	1.9
9.0	24.9	-74.0	-14.5	-9.6	121.4	0.9	25.3	13.4	16.1	1.8
9.5	25.1	-64.5	-13.3	-9.6	39.8	0.9	25.1	13.5	16.4	1.8
10.0	25.2	-72.6	-12.3	-9.7	98.2	0.9	28.1	13.4	16.6	1.8
10.5	25.2	-68.9	-11.6	-9.8	63.8	1.0	26.6	13.2	16.7	1.8
11.0	25.3	-65.3	-10.9	-9.9	41.2	1.0	24.0	13.3	16.8	1.8
11.5	25.4	-61.3	-10.3	-10.1	25.7	1.0	26.3	13.5	17.0	1.8
12.0	25.5	-60.8	-9.5	-10.4	23.3	1.0	25.0	13.4	16.9	1.8
12.5	25.6	-60.5	-9.1	-10.5	22.3	1.0	26.7	13.4	17.0	1.9
13.0	25.4	-60.0	-9.0	-10.5	21.3	1.0	24.8	13.5	17.1	1.9
13.5	25.2	-57.5	-9.2	-10.3	16.4	1.0	24.8	13.0	16.6	1.9
14.0	25.0	-59.3	-9.7	-9.8	20.8	1.0	24.8	13.4	16.5	2.0
14.5	24.9	-61.2	-9.7	-9.7	26.2	1.0	23.9	14.0	16.8	2.0
15.0	24.7	-64.2	-9.8	-9.5	37.5	1.0	24.0	14.7	16.8	2.0
15.5	24.6	-63.0	-10.0	-9.4	33.2	1.0	24.8	15.2	16.7	2.0
16.0	24.5	-68.7	-10.1	-9.4	64.7	1.0	25.0	15.0	16.6	2.0
16.5	24.5	-65.2	-10.5	-9.1	43.3	1.0	25.6	14.9	16.7	2.0
17.0	24.5	-66.0	-10.7	-8.8	46.8	0.9	24.9	15.1	17.0	2.0
17.5	24.7	-67.0	-11.1	-8.7	52.4	0.9	24.8	15.4	17.3	2.0
18.0	24.8	-66.2	-11.9	-8.4	46.8	0.9	25.4	15.2	17.1	2.0
18.5	25.0	-73.5	-12.2	-8.6	108.8	0.9	25.5	14.8	16.5	2.0
19.0	25.3	-62.7	-13.2	-8.5	30.3	0.9	23.7	14.9	16.5	2.0
19.5	25.7	-59.5	-13.9	-8.6	20.4	0.9	25.6	15.2	16.8	2.0
20.0	26.2	-55.7	-14.9	-8.6	12.5	0.9	25.2	15.2	17.2	1.9
20.5	26.8	-55.7	-15.6	-8.7	11.8	0.9	24.4	15.2	17.4	1.9
21.0	27.2	-56.6	-16.0	-9.5	12.8	0.9	22.9	14.7	17.0	1.9
21.5	27.6	-54.9	-16.6	-10.4	10.3	0.9	22.7	14.5	16.9	1.9
22.0	28.0	-54.0	-17.3	-11.4	9.2	0.9	23.3	14.5	17.2	1.9
22.5	28.2	-54.8	-17.1	-12.8	10.0	1.0	23.8	14.4	17.4	1.9
23.0	28.5	-56.6	-17.7	-13.6	12.0	1.0	24.1	14.3	17.4	1.9
23.5	28.7	-54.3	-17.6	-14.0	8.9	1.0	22.9	14.1	17.5	1.9
24.0	28.8	-55.5	-16.8	-14.0	10.1	1.0	23.1	14.0	17.0	1.9
24.5	28.9	-54.7	-16.4	-13.1	9.0	1.0	23.3	13.5	16.4	1.9
25.0	28.9	-54.3	-16.1	-12.5	8.5	1.0	23.0	13.5	16.7	2.0
25.5	28.8	-54.3	-15.1	-11.6	8.5	1.0	22.9	13.7	17.2	2.0
26.0	28.9	-56.8	-15.0	-10.5	10.9	0.9	22.6	13.6	17.3	2.0
26.5	28.9	-59.9	-15.4	-9.7	15.4	0.9	22.1	13.5	17.1	2.0
27.0	28.8	-60.0	-15.8	-9.1	15.5	0.9	21.8	12.8	16.4	2.1
27.5	28.7	-56.2	-17.4	-7.9	9.7	0.9	21.0	12.0	16.0	2.1
28.0	28.7	-56.3	-20.6	-6.3	9.0	0.8	24.2	12.0	16.5	2.3
28.5	28.3	-51.0	-33.5	-5.0	4.7	0.7	22.0	12.0	16.9	2.4
29.0	27.5	-51.2	-21.3	-4.0	4.6	0.6	21.6	11.8	16.3	2.5
29.5	26.3	-51.8	-14.7	-3.4	5.0	0.5	20.8	10.6	14.5	2.6
30.0	24.8	-53.5	-11.4	-2.8	6.1	0.5	21.5	9.7	13.9	2.8