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_{DD} = +5 V, I_{DD} = 80 mA, V_C = Open @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Output IP-3 @ P_{OUT} = 0 dBm/Tone	1dB Comp. Output	P_{SAT} Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	(dB)
0.3	18.0	41.8	5.8	16.9	28.4	17.5	21.1	4.3
0.4	17.9	41.2	6.2	17.2	28.0	17.6	21.1	3.6
0.5	17.8	40.7	6.7	17.1	27.7	17.6	21.0	3.2
0.6	17.8	40.5	7.1	17.0	28.6	17.7	21.0	3.0
0.7	17.7	40.3	7.6	16.9	28.7	17.7	21.0	2.9
0.8	17.6	40.2	8.0	16.7	28.4	17.8	21.0	2.7
0.9	17.6	40.1	8.4	16.6	29.1	17.8	20.9	2.6
1.0	17.5	40.1	8.9	16.4	28.9	17.8	21.0	2.6
1.5	17.2	40.1	10.8	15.6	29.4	17.9	21.1	2.4
2.0	16.8	40.0	11.3	14.8	29.6	17.8	21.1	2.3
2.5	16.4	39.9	11.3	14.1	29.9	17.8	21.0	2.3
3.0	16.2	39.7	11.3	13.6	30.1	17.8	21.0	2.2
3.5	16.0	39.7	11.5	13.3	29.6	17.9	21.0	2.2
4.0	15.8	39.7	11.9	13.4	29.3	17.9	21.0	2.1
4.5	15.8	39.9	12.6	13.4	29.4	17.9	21.0	2.1
5.0	15.7	40.1	13.6	13.6	29.5	17.9	21.0	2.0
5.5	15.7	40.4	14.7	14.0	29.3	17.9	21.0	2.0
6.0	15.7	40.9	15.8	14.5	28.8	17.9	21.1	1.9
6.5	15.7	41.4	16.6	15.2	29.5	17.9	21.0	1.9
7.0	15.7	41.9	17.1	15.9	28.8	17.8	20.9	1.9
7.5	15.7	42.4	17.3	16.5	28.3	17.7	20.9	1.9
8.0	15.7	42.8	17.0	17.4	28.1	17.6	20.8	1.9
8.5	15.7	42.9	16.6	18.7	27.9	17.5	20.8	2.0
9.0	15.7	42.7	16.2	20.1	27.7	17.5	20.8	1.9
9.5	15.7	42.4	15.9	21.1	28.0	17.4	20.8	1.9
10.0	15.7	41.9	15.9	21.4	28.5	17.3	20.8	2.0
10.5	15.7	41.6	16.3	21.3	28.1	17.3	20.8	2.0
11.0	15.8	41.2	17.0	20.3	27.9	17.3	20.9	1.9
11.5	15.8	41.0	17.9	19.1	28.2	17.3	21.1	1.9
12.0	15.7	40.8	18.7	18.0	28.9	17.3	21.1	2.0
12.5	15.7	40.9	19.4	16.9	28.7	17.3	21.2	2.1
13.0	15.6	41.0	19.9	15.6	28.4	17.3	21.2	2.1
13.5	15.5	41.3	20.2	15.1	28.4	17.2	21.1	2.2
14.0	15.5	41.6	20.2	15.1	28.8	17.2	20.9	2.2
14.5	15.3	41.8	20.0	14.7	28.2	17.1	20.8	2.3
15.0	15.2	41.5	19.7	14.4	28.6	17.0	20.6	2.3
15.5	15.2	41.4	19.4	14.6	28.4	16.8	20.4	2.3
16.0	15.1	40.9	19.5	14.9	27.9	16.6	20.0	2.4
16.5	15.2	40.6	20.5	15.2	27.7	16.4	19.6	2.4
17.0	15.2	40.3	22.5	15.7	27.5	16.3	19.5	2.4
17.5	15.3	39.8	25.2	16.1	27.8	16.2	19.5	2.5
18.0	15.3	39.3	27.1	16.4	27.7	16.1	19.5	2.5
18.5	15.3	38.9	27.7	16.8	27.4	16.0	19.6	2.6
19.0	15.3	38.7	27.0	16.5	27.2	15.9	19.8	2.6
19.5	15.3	38.4	25.3	15.7	27.1	15.9	20.1	2.6
20.0	15.2	38.1	22.9	15.4	26.7	15.9	20.2	2.7
20.5	15.1	37.8	21.2	15.3	26.5	15.8	20.0	2.7
21.0	15.0	37.6	20.2	15.0	26.1	15.6	19.8	2.8
21.5	15.0	36.9	19.8	15.1	26.1	15.5	19.8	2.9
22.0	14.9	36.5	19.5	15.2	25.9	15.5	19.8	2.9
22.5	14.9	36.0	19.2	14.7	25.8	15.3	19.7	3.0
23.0	14.8	35.4	18.6	14.2	25.5	15.1	19.4	3.1
23.5	14.7	35.1	17.7	13.7	25.3	14.9	19.3	3.3
24.0	14.5	34.5	16.6	12.9	24.9	14.9	19.2	3.3
24.5	14.4	34.0	15.4	12.4	24.4	14.9	19.0	3.4
25.0	14.3	33.6	14.4	12.4	24.3	15.0	18.9	3.5
25.5	14.2	33.0	13.6	13.2	23.9	15.0	18.8	3.6
26.0	14.2	32.6	12.9	14.8	23.9	15.0	18.7	3.7
26.5	14.1	32.1	12.3	15.7	23.5	15.1	19.0	3.9

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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_D = +8 V, I_D = 80 mA, V_C = Open @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Output IP-3 @ P_{OUT} = 0 dBm/Tone	1dB Comp. Output	P_{SAT} Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	(dB)
0.3	16.7	44.2	6.5	11.3	26.5	14.9	17.9	3.9
0.4	16.4	42.7	8.0	14.1	26.5	14.8	17.7	3.5
0.5	16.7	42.9	9.0	15.9	26.4	15.0	18.0	3.0
0.6	16.6	41.8	9.8	17.8	26.9	15.0	17.9	3.8
0.7	16.6	41.6	10.5	20.1	27.0	15.1	18.0	2.7
0.8	16.6	41.3	10.8	21.9	27.0	15.1	18.1	2.7
0.9	16.7	41.2	11.2	23.6	27.2	15.3	18.2	2.5
1.0	16.7	41.1	11.4	24.4	27.2	15.4	18.2	2.5
1.5	16.7	40.8	11.9	20.3	27.6	15.7	18.5	2.3
2.0	16.7	40.6	11.9	17.3	27.8	16.0	18.8	2.1
2.5	16.6	40.3	11.8	16.1	28.1	16.2	18.8	2.1
3.0	16.4	40.0	11.7	15.8	28.3	16.2	18.8	2.2
3.5	15.7	40.0	11.9	13.2	27.7	15.8	18.4	2.0
4.0	15.3	40.4	12.1	11.7	27.8	15.6	18.3	2.1
4.5	15.1	40.7	12.3	11.4	28.0	15.6	18.3	1.9
5.0	14.9	41.1	12.5	11.4	27.6	15.6	18.5	2.0
5.5	14.8	41.6	12.8	11.7	28.0	15.6	18.3	1.9
6.0	14.8	42.1	13.1	12.0	27.7	15.7	18.4	2.0
6.5	14.8	42.7	13.3	12.4	28.0	15.6	18.3	2.0
7.0	14.8	43.1	13.2	12.6	27.7	15.4	18.2	1.9
7.5	14.8	43.4	13.2	12.8	26.9	15.3	18.2	1.9
8.0	14.8	43.4	13.6	13.0	26.9	15.0	17.9	1.9
8.5	14.9	43.1	15.3	13.1	27.0	14.9	17.8	1.9
9.0	15.0	42.7	19.1	13.0	26.7	14.8	17.6	1.9
9.5	15.0	42.0	28.7	12.8	26.7	14.5	17.4	1.9
10.0	15.0	41.6	22.0	12.3	26.7	14.5	17.4	2.0
10.5	14.7	41.4	15.3	11.7	26.7	14.5	17.5	2.1
11.0	14.6	41.2	11.1	11.2	27.0	14.6	17.5	2.0
11.5	14.3	41.3	10.4	11.0	27.1	14.3	17.3	2.1
12.0	14.1	41.4	9.6	11.1	26.6	14.2	17.3	2.3
12.5	14.0	41.7	9.4	11.3	27.0	14.5	17.6	2.2
13.0	14.1	42.0	9.7	11.7	27.4	14.7	17.8	2.3
13.5	14.3	41.8	10.4	12.4	27.2	14.6	17.8	2.4
14.0	14.6	39.5	11.8	13.8	26.6	14.6	17.9	2.4
14.5	14.7	38.6	14.4	16.1	27.0	14.6	18.0	2.4
15.0	14.7	38.9	17.9	19.1	27.5	14.8	18.1	2.4
15.5	14.6	39.3	21.7	22.2	27.1	14.7	17.9	2.4
16.0	14.6	39.4	23.9	24.4	26.6	14.3	17.6	2.5
16.5	14.5	39.1	23.5	23.8	26.7	14.2	17.6	2.5
17.0	14.5	38.9	23.4	21.9	26.5	14.0	17.4	2.6
17.5	14.4	38.8	23.1	19.7	26.3	14.1	17.2	2.6
18.0	14.3	38.6	20.0	17.3	26.2	13.7	16.7	2.8
18.5	14.2	38.3	16.0	15.1	25.7	13.2	16.1	2.8
19.0	14.0	37.9	13.1	13.2	25.6	13.2	15.9	2.8
19.5	13.9	37.7	11.5	11.9	25.7	13.4	16.1	3.1
20.0	13.8	37.3	10.9	11.2	25.6	13.4	16.3	3.1
20.5	13.8	36.9	11.3	11.3	25.3	13.3	16.4	3.2
21.0	13.9	36.4	12.5	12.2	25.2	13.2	16.5	3.2
21.5	14.0	35.8	14.4	13.9	25.3	13.4	16.7	3.3
22.0	14.1	35.2	16.7	16.2	25.1	13.4	16.9	3.3
22.5	14.1	34.7	18.6	18.1	24.9	13.3	16.9	3.3
23.0	14.1	34.2	19.8	19.3	24.9	13.1	16.9	3.3
23.5	14.0	33.9	19.8	19.9	24.3	12.7	16.7	3.4
24.0	13.8	33.8	18.5	19.5	24.2	12.8	16.9	3.5
24.5	13.7	33.6	17.1	17.9	24.1	12.8	16.9	3.6
25.0	13.6	33.5	16.3	15.9	23.5	12.4	16.9	3.7
25.5	13.6	33.3	16.9	14.4	23.8	12.4	16.7	3.9
26.0	13.4	33.0	17.9	13.9	23.6	12.1	16.6	4.0
26.5	13.3	32.8	17.3	14.4	23.1	12.1	16.8	4.2