

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain(Power Gain) = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{GG1} = -0.77$ V, $I_{GG1} = 0.22$ mA, $V_{GG2} = +3.5$ V, $I_{GG2} = 1.42$ mA, $V_{DD} = +10$ V, $I_{DD} = 303$ mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output $P_{OUT} = +10$ dBm	IP-3 Output $P_{OUT} = +16$ dBm	1dB Comp. Output	P_{SAT} Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
0.1	14.4	-53.6	-6.1	-6.5	46.3	1.0	34.6	30.0	23.5	27.1	21.7
0.2	16.0	-62.2	-9.6	-11.3	116.5	1.0	37.6	36.9	25.3	28.4	18.3
0.3	16.9	-57.6	-11.4	-11.2	59.4	1.0	37.0	40.0	26.4	29.3	15.4
0.4	15.6	-57.0	-12.3	-12.4	63.8	1.0	37.3	40.0	26.5	29.0	13.6
0.5	15.3	-60.5	-14.3	-13.8	100.2	1.0	37.0	40.7	26.9	29.3	12.3
0.6	15.1	-72.4	-15.7	-14.8	400.5	1.0	36.8	41.1	26.9	29.3	11.1
0.7	15.1	-60.9	-16.8	-15.6	108.4	1.0	36.6	41.3	27.0	29.3	10.1
0.8	14.9	-65.6	-17.6	-16.3	186.7	1.0	36.9	41.4	27.0	29.2	9.3
0.9	14.8	-73.5	-18.3	-16.7	473.3	1.0	36.7	41.5	27.3	29.5	9.3
1.0	14.6	-60.3	-18.9	-17.0	105.5	1.0	36.2	41.5	27.4	29.5	8.1
1.5	14.6	-54.8	-21.6	-20.6	56.1	1.0	37.7	42.5	27.8	30.0	6.2
2.0	14.9	-60.9	-23.4	-21.1	109.7	1.0	37.7	42.2	27.9	30.2	5.3
2.5	14.6	-68.0	-23.9	-20.4	257.4	1.0	37.2	41.7	27.8	30.0	4.7
3.0	14.2	-54.3	-23.3	-20.6	55.2	1.0	37.0	41.7	27.8	30.0	4.4
3.5	13.9	-50.4	-22.0	-19.3	36.7	1.0	36.7	41.6	27.4	29.7	4.1
4.0	13.8	-51.2	-20.8	-19.1	40.5	1.0	36.4	41.5	27.7	29.8	3.8
4.5	13.6	-47.9	-19.3	-18.8	28.5	1.0	36.7	41.5	27.4	29.7	3.3
5.0	13.4	-46.6	-18.6	-18.4	25.0	1.0	36.9	41.3	27.5	29.7	3.1
5.5	13.6	-45.5	-18.1	-17.5	21.6	1.0	35.9	41.0	27.3	29.6	2.8
6.0	13.6	-45.8	-17.6	-17.2	22.4	1.0	36.0	40.9	27.3	29.3	2.6
6.5	13.7	-44.2	-17.4	-17.3	18.5	1.0	35.8	40.2	27.3	29.4	2.7
7.0	13.8	-43.1	-18.1	-17.7	16.4	1.0	35.6	39.6	27.0	29.0	2.6
7.5	13.9	-43.1	-19.3	-18.4	16.4	1.0	34.6	39.3	27.1	28.9	2.7
8.0	14.0	-42.6	-20.3	-19.7	15.4	1.0	34.5	38.9	27.1	28.8	2.8
8.5	14.0	-41.6	-19.6	-21.1	13.8	1.0	34.6	38.6	26.8	28.4	2.9
9.0	14.0	-41.6	-18.3	-21.0	14.0	1.0	33.3	38.6	26.4	27.8	2.9
9.5	13.9	-41.3	-17.1	-18.9	13.6	1.0	33.7	38.7	26.1	27.5	3.0
10.0	13.8	-40.0	-16.5	-16.7	11.7	1.0	33.6	38.2	26.0	27.3	2.9
10.5	13.6	-40.3	-15.6	-14.7	12.2	1.0	33.5	38.5	26.0	27.3	3.0
11.0	13.4	-39.0	-14.5	-13.7	10.7	1.0	33.3	38.6	25.6	26.9	2.9
11.5	13.3	-39.5	-13.6	-12.8	11.4	1.0	33.2	38.6	25.6	27.0	2.9
12.0	13.3	-39.0	-13.3	-12.0	10.7	1.0	33.0	38.9	25.6	27.2	3.0
12.5	13.5	-38.0	-13.9	-11.6	9.4	1.0	32.9	39.3	25.6	27.3	2.9
13.0	13.7	-37.6	-15.9	-11.7	9.0	1.0	32.7	39.7	25.6	27.5	2.9
13.5	14.0	-36.9	-19.3	-12.7	8.2	1.0	32.3	39.4	25.8	27.9	3.0
14.0	14.3	-36.1	-23.2	-14.8	7.5	1.0	31.7	38.8	25.6	27.9	3.1
14.5	14.5	-35.6	-21.5	-17.6	7.0	1.0	31.1	38.4	25.6	28.1	3.1
15.0	14.6	-35.3	-18.9	-20.1	6.8	1.0	31.3	38.5	25.4	28.0	3.7
15.5	14.5	-34.8	-17.5	-18.6	6.4	1.0	30.7	37.8	25.3	28.0	3.3
16.0	14.2	-34.6	-15.8	-15.3	6.4	1.0	30.4	37.4	25.1	27.8	3.5
16.5	13.9	-34.1	-14.3	-12.7	6.0	1.0	30.9	37.1	25.3	27.6	3.5
17.0	13.7	-34.3	-13.2	-11.5	6.3	1.0	28.2	37.2	25.0	27.4	3.7
17.5	13.6	-34.2	-12.7	-10.0	6.1	0.9	30.1	37.4	25.0	27.2	3.6
18.0	13.8	-33.4	-14.0	-9.3	5.5	0.9	28.8	37.1	24.8	26.9	3.6
18.5	14.1	-32.4	-17.9	-10.1	4.9	0.9	28.1	35.6	24.7	26.9	3.6
19.0	14.6	-31.7	-24.9	-11.1	4.4	0.9	29.5	33.9	24.4	26.6	3.6
19.5	14.9	-31.2	-21.2	-14.3	4.2	1.0	31.1	34.4	24.4	26.5	3.7
20.0	15.1	-31.1	-18.0	-20.9	4.2	1.0	30.2	35.0	24.6	26.6	3.8
20.5	15.1	-30.5	-16.9	-23.9	3.9	1.0	30.7	34.4	24.4	26.5	3.9
21.0	15.0	-30.5	-16.1	-16.3	3.9	1.0	29.3	34.6	24.2	26.2	4.0
21.5	14.6	-30.3	-14.0	-13.5	3.9	1.0	30.5	32.7	23.6	25.6	4.4
22.0	14.3	-30.3	-13.4	-11.7	3.9	1.0	30.5	30.5	23.4	25.2	4.4
22.5	14.2	-29.9	-14.0	-10.1	3.7	0.9	28.3	28.8	23.1	24.9	4.4
23.0	14.3	-29.1	-17.4	-11.3	3.5	0.9	29.4	27.6	22.3	24.2	4.5
23.5	14.7	-28.7	-23.1	-12.6	3.3	0.9	28.3	28.0	21.9	24.1	4.6
24.0	14.8	-28.2	-16.2	-16.3	3.1	1.0	26.8	27.8	21.8	24.0	4.7