

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: $V_{DD} = +6\text{ V}$, $I_{DD} = 550\text{ mA}$, $V_{GG} = -0.77\text{ V}$, $I_{GG} = 0.81\text{ mA}$, Temperature = $+25^{\circ}\text{C}$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output $P_{OUT} = +16\text{ dBm/Tone}$	1dB Comp. Output	P_{SAT} Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dB)
4.00	4.0	-59.8	-6.3	-25.6	233.6	1.2	29.5	20.6	24.7	18.0
4.50	11.2	-65.8	-9.0	-25.9	233.4	1.1	29.4	22.4	26.5	13.9
5.00	15.8	-73.8	-12.7	-19.2	369.8	1.0	31.6	23.6	27.9	11.3
5.50	18.0	-65.9	-16.2	-17.4	118.0	1.0	31.9	24.7	28.9	9.5
6.00	19.2	-71.3	-17.4	-18.3	196.0	1.0	32.0	25.6	29.2	8.4
6.50	19.7	-60.9	-16.9	-19.6	55.6	1.0	32.3	26.4	29.4	7.7
7.00	19.8	-59.9	-16.7	-19.6	48.5	1.0	33.6	27.1	29.6	7.1
7.50	19.8	-58.4	-16.3	-17.9	41.3	1.0	34.0	27.6	30.0	6.7
8.00	19.6	-58.6	-16.1	-16.6	42.8	1.0	34.0	28.3	30.5	6.5
8.50	19.4	-58.7	-16.2	-16.1	43.9	1.0	34.9	28.7	30.9	6.1
9.00	19.3	-58.4	-16.6	-15.9	42.8	1.0	35.1	29.2	31.2	5.8
9.50	19.2	-63.5	-17.4	-16.1	78.1	1.0	35.6	29.4	31.0	5.6
10.00	19.2	-59.5	-17.6	-16.2	49.6	1.0	36.6	29.5	31.2	5.5
10.25	19.2	-70.4	-17.1	-16.6	175.5	1.0	36.9	29.4	31.5	5.4
10.50	19.1	-56.5	-16.5	-16.9	35.6	1.0	37.0	29.3	31.6	5.3
10.75	19.0	-56.0	-15.3	-17.4	33.6	1.0	36.3	28.9	31.7	5.4
11.00	19.0	-57.1	-14.6	-17.9	38.4	1.0	36.6	28.9	31.9	5.4
11.25	18.9	-58.8	-13.6	-18.4	46.9	1.0	36.5	28.6	31.9	5.4
11.50	18.8	-55.5	-13.1	-19.5	32.0	1.0	36.4	28.3	31.8	5.5
11.75	18.7	-52.6	-12.5	-20.1	23.0	1.0	36.1	28.2	31.7	5.4
12.00	18.7	-55.6	-12.3	-20.7	32.7	1.0	36.9	28.0	31.5	5.4
12.25	18.6	-53.9	-12.3	-22.0	27.4	1.1	36.1	27.9	31.8	5.5
12.50	18.5	-55.3	-12.5	-22.6	32.3	1.0	36.3	28.0	31.8	5.5
12.75	18.5	-53.0	-13.1	-24.9	25.4	1.0	36.6	28.0	32.0	5.5
13.00	18.5	-53.9	-13.7	-25.4	28.3	1.0	36.6	28.0	32.1	5.5
13.25	18.5	-52.9	-15.1	-29.1	25.2	1.0	36.2	28.0	32.1	5.4
13.50	18.6	-55.9	-16.2	-30.8	35.8	1.0	36.2	28.0	32.3	5.4
13.75	18.7	-53.0	-18.9	-35.2	25.5	1.0	36.0	28.0	32.2	5.4
14.00	18.8	-53.6	-21.4	-36.0	27.4	1.0	35.9	28.0	32.1	5.4
14.25	18.9	-53.8	-26.8	-32.9	27.9	1.0	35.7	28.1	32.2	5.4
14.50	19.0	-53.4	-33.7	-31.1	26.4	1.0	36.0	28.2	32.1	5.3
14.75	19.1	-52.7	-31.9	-28.7	23.8	1.0	36.2	28.2	32.1	5.3
15.00	19.2	-55.8	-26.6	-27.8	33.9	1.0	36.2	28.3	32.1	5.4
15.25	19.4	-55.5	-22.5	-27.3	31.8	1.0	36.1	28.4	32.1	5.3
15.50	19.5	-58.5	-20.6	-26.9	44.4	1.0	36.0	28.3	32.0	5.3
15.75	19.7	-57.2	-19.0	-27.0	37.1	1.0	36.4	28.4	31.9	5.3
16.00	19.8	-54.2	-18.3	-27.1	25.9	1.0	35.7	28.5	31.8	5.3
16.25	20.0	-54.2	-17.9	-26.5	25.2	1.0	35.4	28.6	31.8	5.4
16.50	20.1	-53.5	-17.8	-26.0	22.9	1.0	35.7	28.8	31.7	5.3
16.75	20.3	-50.7	-17.8	-24.6	16.2	1.0	36.1	29.1	31.5	5.3
17.00	20.3	-52.2	-18.0	-24.4	19.3	1.0	36.3	29.3	31.5	5.3
17.25	20.3	-50.6	-18.0	-24.0	16.1	1.0	36.1	29.6	31.4	5.3
17.50	20.2	-49.9	-18.0	-24.4	15.1	1.0	36.4	29.8	31.4	5.3
17.75	19.9	-50.5	-17.8	-24.4	16.5	1.0	36.0	29.9	31.3	5.4
18.00	19.7	-49.4	-17.5	-24.5	15.0	1.0	36.0	30.0	31.3	5.5
18.25	19.2	-50.9	-16.5	-23.5	18.9	1.0	34.9	30.2	31.3	5.7
18.50	18.6	-53.0	-15.8	-23.5	25.3	1.0	34.2	29.9	31.1	5.8
18.75	17.4	-52.5	-15.1	-23.4	27.3	1.0	33.7	29.7	30.8	6.1
19.00	16.3	-54.0	-15.5	-23.4	37.0	1.0	33.2	29.3	30.6	6.3
19.25	14.2	-53.3	-18.1	-22.9	44.1	1.0	32.5	28.8	30.2	6.8
19.50	12.5	-56.7	-21.6	-22.9	80.1	1.0	31.5	28.4	29.6	7.3
19.75	9.7	-53.8	-23.8	-22.9	80.0	1.0	29.8	27.6	28.3	8.1
20.00	7.6	-55.3	-20.1	-23.6	118.9	1.0	29.8	27.1	27.8	8.8