

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{D1} = V_{D2} = V_{D3} = +4\text{ V}$, $I_{D1} = 10.8\text{ mA}$, $I_{D2} = 14.3\text{ mA}$, $I_{D3} = 27.3\text{ mA}$ @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	3dB Comp. Output	Noise Figure	IP-3 Output
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)	(dBm)
6.0	22.9	-68.8	-17.1	-9.0	91.2	0.9	7.8	10.5	2.1	17.6
6.3	23.0	-70.1	-18.3	-9.1	118.6	0.9	7.9	10.4	2.0	17.0
6.6	23.1	-74.3	-18.3	-9.3	187.2	0.9	8.1	10.3	1.9	18.3
6.9	23.1	-75.3	-17.5	-9.4	196.3	0.9	8.1	10.2	1.9	18.6
7.2	23.1	-74.5	-16.5	-9.6	230.0	0.9	8.5	10.4	1.9	18.7
7.5	23.0	-72.4	-15.4	-9.7	139.2	0.9	8.4	10.3	1.9	19.4
7.8	22.8	-70.8	-14.5	-9.9	112.5	0.9	8.6	10.5	1.8	19.5
8.1	22.6	-71.5	-13.6	-10.2	129.4	0.9	8.6	10.7	1.8	20.2
8.4	22.5	-70.3	-13.1	-10.2	116.6	0.9	8.6	10.8	1.8	19.7
8.7	22.3	-68.3	-12.4	-10.4	85.7	1.0	8.6	11.0	1.8	20.2
9.0	22.2	-70.4	-11.9	-10.6	120.4	1.0	8.9	11.3	1.8	20.5
9.3	22.0	-70.3	-11.5	-10.8	117.4	1.0	8.7	11.5	1.8	20.9
9.6	21.9	-76.6	-11.2	-11.1	386.2	1.0	8.8	11.7	1.7	20.4
9.9	21.8	-71.9	-11.0	-11.3	150.8	1.0	8.8	11.8	1.8	20.9
10.2	21.7	-68.1	-10.8	-11.6	95.2	1.0	9.1	12.0	1.8	21.1
10.5	21.7	-68.5	-10.7	-11.8	96.1	1.0	9.2	12.1	1.7	20.4
10.8	21.7	-70.8	-10.5	-12.2	124.4	1.0	9.2	12.1	1.8	21.6
11.1	21.7	-66.4	-10.4	-12.6	76.4	1.0	9.1	12.1	1.8	21.1
11.4	21.8	-64.6	-10.2	-12.9	59.9	1.0	8.8	12.0	1.8	21.3
11.7	21.9	-60.6	-10.0	-13.4	37.0	1.0	9.1	12.0	1.8	20.8
12.0	22.0	-63.2	-9.9	-13.7	53.0	1.1	9.0	12.0	1.8	21.1
12.3	22.1	-62.9	-9.9	-14.0	48.1	1.1	9.1	12.1	1.8	21.1
12.6	22.1	-62.9	-9.9	-14.3	47.6	1.1	9.0	12.1	1.9	21.1
12.9	22.2	-60.7	-10.0	-14.6	37.4	1.1	9.1	12.3	1.9	21.0
13.2	22.2	-59.9	-10.1	-14.9	33.6	1.1	8.9	12.4	1.9	20.8
13.5	22.3	-59.0	-10.3	-15.0	32.0	1.1	8.6	12.3	1.9	20.6
13.8	22.3	-58.4	-10.6	-15.1	28.6	1.1	8.7	12.3	1.9	20.3
14.1	22.3	-60.9	-10.8	-15.4	38.9	1.1	8.8	12.4	1.9	20.3
14.4	22.3	-62.2	-10.9	-15.5	44.2	1.1	8.9	12.5	1.9	20.0
14.7	22.3	-63.3	-11.0	-15.8	50.7	1.1	9.2	12.8	1.9	21.4
15.0	22.3	-63.3	-11.1	-15.9	51.0	1.0	9.3	12.7	1.9	21.1
15.3	22.3	-67.8	-11.2	-16.1	91.6	1.0	9.9	13.0	1.9	21.5
15.6	22.2	-65.4	-11.4	-16.2	66.7	1.0	10.2	13.0	1.9	22.3
15.9	22.2	-66.0	-11.5	-16.3	71.3	1.0	10.4	13.0	1.9	21.7
16.2	22.2	-64.8	-11.7	-16.6	63.5	1.0	10.3	12.9	1.9	22.2
16.5	22.2	-62.7	-11.9	-16.8	50.5	1.0	10.3	12.8	2.0	22.1
16.8	22.2	-66.3	-12.1	-16.9	77.9	1.0	10.4	12.9	2.0	22.2
17.1	22.3	-66.5	-12.2	-16.9	76.9	1.0	10.5	12.9	1.9	22.3
17.4	22.3	-66.7	-12.6	-16.8	81.4	1.0	10.7	13.1	1.9	22.1
17.7	22.4	-66.5	-13.1	-16.7	76.1	1.0	10.5	13.0	1.9	21.6
18.0	22.5	-68.9	-13.4	-16.8	107.1	1.0	10.5	13.0	1.9	22.1
18.3	22.6	-68.4	-13.5	-17.5	97.3	1.0	10.5	13.0	1.9	22.2
18.6	22.6	-65.7	-13.9	-17.9	68.7	1.0	10.6	13.0	1.9	23.0
18.9	22.8	-66.5	-14.4	-18.1	105.1	1.0	10.7	13.1	1.9	22.7
19.2	22.9	-69.2	-14.7	-18.8	181.1	1.0	10.5	13.0	1.9	23.2
19.5	22.9	-62.9	-15.2	-19.5	49.2	1.0	10.7	13.1	1.9	23.0
19.8	23.0	-61.1	-15.8	-20.2	39.2	1.0	10.5	13.0	1.9	23.1
20.1	23.2	-60.8	-16.2	-20.9	37.0	1.0	10.6	13.1	1.9	22.1
20.4	23.3	-58.6	-16.6	-21.9	28.4	1.0	10.6	13.1	1.9	21.9
20.7	23.4	-57.0	-16.7	-23.1	24.2	1.0	10.5	13.1	1.9	21.5
21.0	23.5	-57.1	-16.7	-25.2	23.6	1.0	10.7	13.3	1.9	22.1
21.3	23.5	-57.5	-16.8	-27.5	24.9	1.0	10.6	13.2	1.9	22.2
21.6	23.6	-57.3	-16.9	-29.5	24.0	1.0	10.4	13.2	1.9	22.2
21.9	23.6	-57.2	-17.0	-30.1	23.5	1.0	10.1	13.0	2.0	22.3
22.2	23.6	-56.7	-17.0	-28.3	22.2	1.0	9.9	12.9	1.9	21.8
22.5	23.6	-57.5	-16.8	-25.8	24.2	1.0	9.6	12.6	2.0	21.8
22.8	23.7	-56.8	-16.7	-23.7	22.2	1.0	9.6	12.6	1.9	21.3
23.1	23.7	-55.7	-16.6	-22.0	19.7	1.0	9.4	12.4	1.9	21.6
23.4	23.8	-54.8	-16.3	-20.6	17.3	1.0	9.3	12.4	2.0	20.7
23.7	23.8	-53.8	-15.8	-19.2	15.2	1.0	9.2	12.3	2.0	20.9
24.0	23.8	-52.6	-15.4	-18.0	13.1	1.0	9.0	12.1	2.0	20.9
24.3	23.8	-52.9	-15.2	-17.2	13.6	1.0	9.1	12.5	2.0	20.4
24.6	23.7	-51.5	-15.3	-16.7	11.7	1.0	9.0	12.2	2.1	20.5
24.9	23.8	-51.7	-15.4	-16.4	11.9	1.0	8.9	12.1	2.2	20.2
25.2	23.9	-52.9	-15.1	-15.5	13.4	1.0	8.8	11.7	2.2	20.7
25.5	24.1	-53.3	-14.7	-14.6	13.6	1.0	9.0	11.9	2.1	21.3
25.8	24.2	-53.4	-14.8	-14.0	13.5	1.0	8.7	11.3	2.1	20.9
26.1	24.3	-53.1	-14.9	-13.4	13.0	1.0	8.6	11.1	2.1	21.0
26.4	24.4	-52.7	-15.2	-13.0	12.1	1.0	8.5	11.1	2.1	20.7
26.7	24.5	-53.1	-15.9	-12.7	12.4	1.0	8.1	10.5	2.2	20.3
27.0	24.6	-53.0	-16.3	-12.3	12.3	1.0	8.2	10.7	2.2	20.4

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain = S21 (dB)

Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{D1} = V_{D2} = V_{D3} = +5\text{ V}$, $I_{D1} = 15.0\text{ mA}$, $I_{D2} = 20.5\text{ mA}$, $I_{D3} = 37.3\text{ mA}$ @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	3dB Comp. Output	Noise Figure	IP-3 Output
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)	(dBm)
6.0	24.5	-68.8	-20.6	-8.8	72.0	0.9	10.7	12.8	1.9	20.6
6.3	24.6	-67.4	-21.6	-8.9	61.9	0.9	10.8	12.7	1.9	20.2
6.6	24.6	-76.3	-20.6	-9.1	178.8	0.9	11.0	12.7	1.8	21.4
6.9	24.7	-75.0	-19.4	-9.3	151.5	0.9	11.1	12.5	1.7	22.0
7.2	24.6	-69.0	-18.1	-9.4	72.6	0.9	11.5	12.6	1.7	21.7
7.5	24.5	-67.7	-16.8	-9.5	64.3	0.9	11.4	12.5	1.7	22.5
7.8	24.4	-73.6	-15.7	-9.7	140.6	0.9	11.7	12.8	1.7	22.3
8.1	24.2	-71.0	-14.9	-9.9	116.1	0.9	11.7	12.9	1.7	23.0
8.4	24.0	-69.2	-14.3	-9.9	88.9	0.9	11.8	13.1	1.7	22.4
8.7	23.8	-68.5	-13.6	-10.1	76.0	0.9	11.8	13.3	1.7	23.7
9.0	23.7	-70.4	-13.0	-10.3	99.0	1.0	12.2	13.6	1.7	23.4
9.3	23.5	-71.1	-12.6	-10.5	121.6	1.0	11.9	13.8	1.6	24.3
9.6	23.4	-75.2	-12.2	-10.7	208.7	1.0	12.1	14.0	1.6	23.8
9.9	23.3	-70.2	-12.0	-10.9	111.7	1.0	12.0	14.1	1.6	24.1
10.2	23.2	-73.0	-11.8	-11.2	138.6	1.0	12.3	14.4	1.6	23.8
10.5	23.2	-68.3	-11.7	-11.4	84.1	1.0	12.4	14.6	1.6	24.2
10.8	23.2	-70.6	-11.5	-11.8	105.6	1.0	12.3	14.5	1.6	24.8
11.1	23.2	-68.7	-11.3	-12.1	97.8	1.0	12.3	14.5	1.7	24.5
11.4	23.3	-64.6	-11.1	-12.5	52.3	1.0	12.0	14.3	1.7	24.7
11.7	23.5	-62.6	-10.8	-12.9	39.5	1.0	12.2	14.3	1.7	24.7
12.0	23.6	-61.4	-10.7	-13.2	34.1	1.0	12.3	14.3	1.7	24.9
12.3	23.7	-63.5	-10.8	-13.5	43.8	1.0	12.4	14.3	1.7	25.3
12.6	23.8	-63.2	-10.7	-13.8	42.8	1.0	12.3	14.3	1.7	25.1
12.9	23.8	-61.4	-10.8	-14.1	33.6	1.0	12.5	14.6	1.8	25.3
13.2	23.9	-59.9	-10.9	-14.4	28.4	1.0	12.3	14.7	1.8	24.6
13.5	24.0	-59.2	-11.1	-14.5	25.9	1.0	12.1	14.7	1.8	24.4
13.8	24.0	-59.7	-11.6	-14.6	27.6	1.0	12.1	14.8	1.8	24.5
14.1	24.0	-61.4	-11.8	-14.8	33.6	1.0	12.2	14.8	1.8	24.1
14.4	24.0	-61.9	-11.9	-14.9	36.0	1.0	12.3	14.8	1.8	23.5
14.7	24.0	-63.6	-12.1	-15.2	44.8	1.0	12.5	15.0	1.8	24.5
15.0	24.0	-63.2	-12.3	-15.2	42.2	1.0	12.5	15.0	1.8	24.9
15.3	23.9	-66.4	-12.3	-15.4	61.8	1.0	13.1	15.2	1.8	24.9
15.6	23.9	-65.1	-12.6	-15.4	53.7	1.0	13.3	15.2	1.8	24.9
15.9	23.9	-66.3	-12.7	-15.6	66.0	1.0	13.6	15.2	1.8	24.6
16.2	23.8	-66.7	-12.9	-15.8	68.2	1.0	13.5	15.1	1.8	25.2
16.5	23.8	-62.3	-13.1	-15.9	38.9	1.0	13.4	15.1	1.8	25.2
16.8	23.8	-66.9	-13.4	-15.9	67.2	1.0	13.6	15.1	1.8	24.9
17.1	23.9	-69.8	-13.5	-15.8	103.4	1.0	13.6	15.2	1.8	24.9
17.4	23.9	-67.6	-14.0	-15.6	73.2	1.0	13.9	15.4	1.8	25.6
17.7	24.0	-68.7	-14.6	-15.4	83.6	1.0	13.7	15.3	1.8	24.1
18.0	24.2	-69.2	-14.9	-15.5	86.0	1.0	13.8	15.3	1.8	24.6
18.3	24.2	-68.9	-14.9	-16.2	81.6	1.0	13.7	15.3	1.8	24.1
18.6	24.2	-66.7	-15.6	-16.5	67.0	1.0	13.7	15.3	1.8	24.9
18.9	24.4	-65.4	-16.3	-16.6	56.0	1.0	13.9	15.4	1.8	24.1
19.2	24.5	-68.6	-16.7	-17.1	96.5	1.0	13.7	15.3	1.8	24.6
19.5	24.5	-64.2	-17.3	-17.7	50.3	1.0	13.9	15.4	1.7	25.6
19.8	24.7	-60.7	-18.2	-18.1	31.1	1.0	13.7	15.3	1.7	25.3
20.1	24.8	-62.2	-18.7	-18.8	38.6	1.0	13.8	15.4	1.7	24.2
20.4	24.9	-58.9	-19.4	-19.6	25.5	1.0	13.8	15.5	1.7	24.1
20.7	25.1	-57.9	-19.4	-20.8	21.5	1.0	13.8	15.5	1.8	23.6
21.0	25.1	-56.6	-19.4	-22.7	18.6	1.0	13.9	15.6	1.8	23.4
21.3	25.2	-56.3	-19.4	-25.0	17.7	1.0	13.7	15.5	1.8	24.0
21.6	25.2	-57.5	-19.5	-27.9	20.4	1.0	13.7	15.5	1.8	24.0
21.9	25.3	-56.8	-19.7	-31.2	18.7	1.0	13.3	15.4	1.8	23.7
22.2	25.3	-57.1	-19.6	-32.7	19.4	1.0	13.2	15.3	1.8	23.6
22.5	25.3	-56.5	-19.4	-29.7	18.0	1.0	13.0	15.1	1.8	24.3
22.8	25.3	-57.0	-19.3	-26.3	19.3	1.0	12.9	15.1	1.8	23.8
23.1	25.4	-55.2	-19.1	-23.8	15.4	1.0	12.8	15.0	1.8	23.9
23.4	25.4	-54.9	-18.7	-21.9	14.7	1.0	12.7	14.9	1.8	22.8
23.7	25.5	-53.9	-17.9	-20.1	13.0	1.0	12.5	14.8	1.9	23.8
24.0	25.5	-52.8	-17.3	-18.5	11.3	1.0	12.4	14.6	1.9	22.8
24.3	25.4	-52.9	-17.1	-17.5	11.5	1.0	12.5	15.0	1.9	23.2
24.6	25.3	-51.6	-17.2	-16.9	9.9	1.0	12.4	14.7	2.0	23.3
24.9	25.4	-51.6	-17.2	-16.5	9.8	1.0	12.3	14.8	2.1	23.3
25.2	25.6	-53.5	-16.6	-15.4	11.9	1.0	12.3	14.4	2.1	23.6
25.5	25.7	-53.1	-16.0	-14.4	11.0	1.0	12.5	14.6	2.0	24.7
25.8	25.8	-53.3	-16.0	-13.7	11.1	1.0	12.2	14.1	2.0	24.0
26.1	26.0	-53.3	-15.8	-13.0	10.9	1.0	12.1	13.9	2.0	24.1
26.4	26.2	-52.7	-16.0	-12.5	9.8	1.0	12.1	14.0	2.0	24.4
26.7	26.4	-54.1	-16.7	-12.1	11.2	1.0	11.7	13.4	2.0	23.1
27.0	26.5	-52.5	-16.9	-11.6	9.3	0.9	12.0	13.7	2.0	23.4