

Typical Performance Data

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: $V_s = +4.75\text{ V}$, $I_s = 128\text{mA}$ @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)			(dBm)	(dBm)	(dB)
10.0	9.4	64.8	6.3	5.1	170.7	0.8	17.8	5.9	6.8
10.5	11.0	59.9	7.2	5.3	87.2	0.8	17.1	6.2	6.1
11.0	12.6	59.6	8.4	5.6	77.0	0.8	17.0	6.7	5.5
11.5	14.1	57.2	10.0	6.1	53.6	0.8	17.2	7.3	4.9
12.0	15.5	55.4	12.1	6.7	41.0	0.8	18.3	8.0	4.3
12.5	16.7	54.6	14.6	7.6	35.1	0.9	18.4	8.8	3.9
13.0	17.5	55.3	17.0	8.6	37.1	0.9	19.2	9.3	3.5
13.5	18.2	54.4	19.1	9.7	32.5	0.9	20.1	10.1	3.2
14.0	18.7	52.9	20.4	10.8	26.4	0.9	20.2	10.7	3.0
14.5	18.9	53.8	21.1	11.7	29.2	0.9	20.7	11.3	2.8
15.0	19.0	52.9	21.5	12.4	26.3	0.9	21.4	11.7	2.6
15.5	18.9	53.5	21.6	12.9	28.7	1.0	22.0	12.3	2.5
16.0	18.9	52.3	21.7	13.1	25.1	1.0	21.6	12.3	2.4
16.5	18.9	52.9	21.8	13.1	27.0	1.0	22.2	12.7	2.3
17.0	18.8	51.7	22.2	12.9	24.0	1.0	21.8	12.9	2.3
17.5	18.7	51.6	22.4	12.8	24.0	1.0	21.9	12.6	2.3
18.0	18.5	51.6	21.0	12.6	24.6	1.0	23.5	12.8	2.4
18.5	18.2	52.4	18.5	12.2	27.4	1.0	22.8	12.8	2.4
19.0	18.1	52.5	16.0	11.6	27.8	1.0	22.9	12.8	2.5
19.5	17.8	53.0	13.6	11.0	29.7	1.0	23.8	12.8	2.6
20.0	17.5	53.5	11.8	10.4	31.8	1.0	23.4	12.8	2.6
20.5	17.0	53.1	10.5	9.9	30.5	1.0	23.9	12.9	2.6
21.0	16.6	54.5	9.5	9.3	36.1	1.0	23.4	13.2	2.7
21.5	16.4	55.2	9.0	9.1	39.5	1.0	23.5	13.3	2.7
22.0	16.1	59.5	8.8	9.0	66.5	1.0	23.4	13.3	2.7
22.5	15.9	57.1	8.7	9.0	51.2	1.0	23.6	13.7	2.7
23.0	15.9	64.1	9.0	9.2	117.6	1.0	24.6	14.0	2.6
23.5	16.0	56.3	9.4	9.6	48.7	1.0	24.7	14.6	2.7
24.0	16.1	53.5	9.8	9.7	35.5	1.0	25.4	14.9	2.6
24.5	16.0	56.4	10.3	9.6	50.4	1.0	25.2	15.1	2.6
25.0	16.0	57.7	10.6	9.5	59.2	1.0	24.5	15.4	2.7
25.5	16.0	56.2	10.7	9.4	50.3	1.0	25.7	15.4	2.8
26.0	15.9	54.7	10.7	9.4	42.3	1.0	24.8	15.8	2.9
26.5	15.9	55.5	10.7	9.3	46.8	1.0	24.9	16.0	3.0
27.0	15.9	56.4	10.8	9.5	52.1	1.0	23.7	16.4	3.1
27.5	16.0	57.4	11.0	9.9	59.2	1.0	24.3	16.3	3.2
28.0	16.0	53.4	11.2	10.5	38.1	1.0	26.1	16.3	3.2
28.5	16.1	56.2	11.5	10.9	52.6	1.0	22.5	16.6	3.3
29.0	16.2	52.3	11.9	11.2	33.7	1.0	22.4	17.8	3.3
29.5	16.2	53.3	12.2	11.2	38.3	1.0	24.9	16.5	3.4
30.0	16.2	64.1	12.4	10.9	132.7	1.0	24.9	16.3	3.4
30.5	16.2	54.0	12.1	10.5	40.8	1.0	24.1	16.8	3.5
31.0	16.1	56.1	11.5	10.2	51.9	1.0	23.6	16.9	3.5
31.5	16.0	54.3	10.8	10.1	41.9	1.0	25.4	15.7	3.7
32.0	15.9	59.0	9.9	10.0	72.0	1.0	24.8	14.9	3.6
32.5	15.9	56.0	9.3	10.4	50.9	1.0	24.4	14.5	3.7
33.0	15.8	47.4	8.3	11.0	18.7	1.1	22.9	15.8	3.8
33.5	15.5	49.0	8.3	10.4	23.2	1.0	24.4	14.5	3.8
34.0	15.3	47.7	8.1	10.0	20.3	1.0	23.3	15.4	3.9
34.5	14.8	46.9	8.3	9.1	19.2	1.0	23.7	15.1	4.0
35.0	15.2	57.1	7.4	8.8	57.0	1.0	23.5	14.2	3.7
35.5	15.3	63.6	7.8	9.4	124.8	1.0	24.5	15.2	3.9
36.0	15.2	61.0	8.2	9.8	95.4	1.0	24.1	15.6	3.7
36.5	15.2	53.7	8.9	10.1	42.7	1.0	27.0	14.2	3.4
37.0	15.4	54.0	9.6	10.7	45.8	1.0	25.5	15.1	3.6
37.5	15.5	51.7	10.3	11.8	36.3	1.0	24.1	15.2	3.7
38.0	15.7	53.9	11.0	13.2	48.4	1.0	22.6	15.9	3.5
38.5	15.8	49.1	11.9	15.1	28.9	1.0	23.5	14.6	3.4
39.0	16.0	49.6	12.5	16.9	31.6	1.0	24.3	14.7	3.2
39.5	16.1	46.0	12.8	17.5	21.3	1.0	24.7	14.5	3.2
40.0	16.0	45.0	13.1	17.1	19.7	1.0	24.5	13.3	3.1
40.5	15.7	46.0	13.4	15.8	22.5	1.0	24.6	14.0	3.2
41.0	15.2	46.6	13.3	14.5	25.0	1.0	25.6	13.2	3.3
41.5	14.8	47.7	13.2	13.7	29.0	1.0	25.5	13.3	3.8
42.0	14.5	44.5	13.3	13.2	20.6	1.0	23.1	13.9	3.6
42.5	14.3	41.5	13.5	12.9	14.8	1.0	26.9	13.6	3.8
43.0	14.2	44.2	13.4	12.8	20.4	1.0	24.0	12.6	3.9
43.5	14.0	45.3	13.0	13.5	23.7	1.0	23.1	12.2	4.1
44.0	13.5	39.7	11.9	13.3	13.0	1.0	23.5	12.3	4.2
44.5	12.5	44.9	10.4	13.2	25.6	1.0	26.5	11.1	4.4
45.0	11.4	44.1	9.3	14.4	26.6	1.1	25.9	10.7	5.0

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: $V_S = +5\text{ V}$, $I_S = 136\text{mA}$ @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10.0	9.6	64.0	6.3	5.1	153.7	0.8	18.0	6.2	6.8
10.5	11.2	60.6	7.2	5.3	93.5	0.8	17.7	6.7	6.1
11.0	12.7	58.5	8.4	5.6	66.9	0.8	17.2	7.1	5.5
11.5	14.2	56.7	10.0	6.0	50.3	0.8	17.6	7.7	4.9
12.0	15.6	56.5	12.1	6.7	45.7	0.8	18.6	8.4	4.3
12.5	16.8	54.4	14.6	7.6	34.2	0.9	18.7	9.2	3.9
13.0	17.6	54.6	17.0	8.6	33.8	0.9	19.3	9.8	3.5
13.5	18.2	53.6	19.2	9.6	29.2	0.9	20.2	10.5	3.2
14.0	18.7	53.9	20.5	10.7	29.5	0.9	20.3	11.1	2.9
14.5	19.0	53.7	21.2	11.7	28.5	0.9	20.7	11.6	2.7
15.0	19.1	53.6	21.5	12.4	28.3	0.9	21.8	12.0	2.6
15.5	19.0	52.0	21.6	12.9	23.9	1.0	21.7	12.7	2.5
16.0	19.0	52.0	21.8	13.1	24.2	1.0	22.4	12.6	2.4
16.5	19.0	53.1	21.9	13.1	27.5	1.0	22.5	13.1	2.4
17.0	18.9	52.3	22.2	13.0	25.2	1.0	21.9	13.3	2.4
17.5	18.7	52.3	22.5	12.9	26.0	1.0	22.7	13.0	2.4
18.0	18.5	52.1	21.0	12.7	26.0	1.0	23.7	13.2	2.4
18.5	18.3	53.8	18.4	12.2	32.1	1.0	22.9	13.2	2.4
19.0	18.1	53.7	15.9	11.6	31.6	1.0	23.3	13.2	2.5
19.5	17.9	53.1	13.6	11.0	29.7	1.0	24.0	13.2	2.6
20.0	17.5	52.4	11.8	10.4	27.5	1.0	23.6	13.3	2.6
20.5	17.1	54.2	10.5	9.9	34.2	1.0	24.0	13.4	2.7
21.0	16.7	54.5	9.5	9.3	35.6	1.0	23.1	13.7	2.7
21.5	16.5	55.2	9.0	9.1	38.8	1.0	24.0	13.7	2.7
22.0	16.2	60.0	8.8	9.0	69.5	1.0	23.1	13.8	2.8
22.5	16.0	58.4	8.7	9.0	59.1	1.0	24.1	14.3	2.7
23.0	16.0	61.8	9.0	9.2	89.8	1.0	24.2	14.4	2.7
23.5	16.1	60.6	9.4	9.6	78.7	1.0	24.3	14.9	2.6
24.0	16.2	54.6	9.8	9.7	39.9	1.0	24.8	15.3	2.7
24.5	16.2	56.6	10.3	9.6	51.1	1.0	25.0	15.7	2.7
25.0	16.1	56.7	10.6	9.5	51.8	1.0	24.4	15.8	2.8
25.5	16.1	55.4	10.6	9.4	45.1	1.0	24.7	15.9	2.8
26.0	16.0	56.3	10.6	9.4	50.5	1.0	25.1	16.3	2.9
26.5	16.0	56.7	10.7	9.3	52.9	1.0	24.5	16.5	3.0
27.0	16.0	57.4	10.8	9.5	58.0	1.0	25.3	17.0	3.1
27.5	16.1	58.8	11.0	9.9	68.7	1.0	22.9	16.8	3.2
28.0	16.2	55.0	11.2	10.4	45.0	1.0	26.5	16.7	3.3
28.5	16.3	54.6	11.4	10.9	42.8	1.0	23.9	17.1	3.3
29.0	16.4	64.8	11.9	11.1	139.9	1.0	22.9	18.2	3.3
29.5	16.4	56.8	12.2	11.2	56.4	1.0	25.7	17.0	3.4
30.0	16.4	57.1	12.4	10.9	58.1	1.0	23.9	16.8	3.4
30.5	16.4	54.7	12.2	10.5	43.7	1.0	24.1	17.2	3.5
31.0	16.3	53.9	11.6	10.2	39.5	1.0	23.8	17.4	3.6
31.5	16.2	57.5	10.8	10.1	59.6	1.0	24.5	16.1	3.6
32.0	16.1	55.7	9.9	10.1	48.1	1.0	23.3	15.3	3.7
32.5	16.1	52.0	9.3	10.5	31.4	1.0	23.3	14.9	3.7
33.0	16.1	47.2	8.3	11.1	18.0	1.1	23.1	16.2	3.8
33.5	15.7	48.4	8.3	10.5	21.2	1.0	23.6	14.9	3.9
34.0	15.5	50.2	8.2	10.0	26.4	1.0	24.1	15.9	3.9
34.5	15.0	48.4	8.4	9.1	22.4	1.0	25.2	15.6	3.8
35.0	15.4	53.6	7.4	8.8	37.2	1.0	23.7	14.6	3.9
35.5	15.5	63.5	7.7	9.4	119.7	1.0	22.7	15.6	3.9
36.0	15.4	60.5	8.2	9.7	87.6	1.0	25.2	16.0	3.9
36.5	15.4	53.6	8.9	10.1	41.6	1.0	23.5	14.7	3.8
37.0	15.6	54.0	9.6	10.6	44.5	1.0	23.8	15.5	3.9
37.5	15.7	53.6	10.3	11.7	43.8	1.0	22.6	15.2	3.7
38.0	15.9	52.8	11.1	13.2	41.5	1.0	19.2	16.2	3.5
38.5	16.0	50.1	11.9	15.0	31.6	1.0	27.5	14.9	3.4
39.0	16.2	47.9	12.5	16.8	25.3	1.0	23.2	15.0	3.3
39.5	16.3	45.6	12.7	17.5	20.1	1.0	25.8	14.8	3.2
40.0	16.2	46.8	13.1	17.0	23.5	1.0	23.7	13.5	3.1
40.5	15.9	46.0	13.3	15.6	22.1	1.0	25.5	14.6	3.2
41.0	15.4	46.4	13.2	14.5	24.0	1.0	24.0	13.6	3.4
41.5	15.0	50.1	13.3	13.6	37.3	1.0	23.9	13.9	3.3
42.0	14.8	43.7	13.3	13.2	18.3	1.0	23.4	14.3	3.7
42.5	14.5	45.5	13.6	12.9	23.0	1.0	22.9	14.0	3.9
43.0	14.4	42.4	13.4	12.7	16.3	1.0	24.2	12.8	3.9
43.5	14.2	42.5	13.0	13.3	16.6	1.0	24.9	12.4	4.1
44.0	13.7	42.8	11.9	13.3	18.2	1.0	21.1	13.2	4.2
44.5	12.8	43.2	10.4	13.2	20.6	1.0	24.8	12.0	4.3
45.0	11.6	40.6	9.3	14.5	17.4	1.1	21.5	10.5	4.9

Typical Performance Data

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: $V_s = +5.25$ V, $I_s = 143$ mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10.0	9.7	63.8	6.3	5.1	148.7	0.8	18.5	6.6	6.8
10.5	11.3	61.9	7.3	5.3	107.0	0.8	17.9	6.9	6.1
11.0	12.8	60.3	8.5	5.6	81.6	0.8	17.7	7.5	5.4
11.5	14.3	58.0	10.1	6.0	57.4	0.8	17.8	8.1	4.9
12.0	15.7	56.0	12.1	6.7	43.0	0.8	18.8	8.8	4.4
12.5	16.8	54.4	14.7	7.6	34.0	0.9	19.1	9.5	3.9
13.0	17.6	54.4	17.1	8.6	32.8	0.9	19.7	10.1	3.5
13.5	18.3	53.9	19.2	9.6	30.1	0.9	20.5	10.9	3.2
14.0	18.8	53.4	20.5	10.7	27.7	0.9	20.8	11.4	3.0
14.5	19.0	52.9	21.2	11.7	25.9	0.9	21.0	11.8	2.8
15.0	19.1	53.1	21.6	12.4	26.6	0.9	21.9	12.3	2.7
15.5	19.1	52.8	21.7	12.9	26.0	1.0	21.6	12.8	2.6
16.0	19.0	53.8	21.8	13.1	29.6	1.0	22.5	12.9	2.5
16.5	19.0	52.6	21.9	13.1	25.8	1.0	23.4	13.3	2.4
17.0	19.0	53.3	22.3	13.0	28.3	1.0	22.6	13.6	2.4
17.5	18.8	51.8	22.5	12.9	24.3	1.0	23.0	13.4	2.4
18.0	18.6	51.7	21.0	12.6	24.5	1.0	23.3	13.5	2.5
18.5	18.4	52.2	18.4	12.2	26.5	1.0	23.1	13.6	2.5
19.0	18.2	52.2	15.9	11.6	26.4	1.0	23.5	13.7	2.5
19.5	17.9	53.9	13.6	11.0	32.2	1.0	23.3	13.7	2.6
20.0	17.6	52.9	11.8	10.4	29.1	1.0	24.2	13.7	2.7
20.5	17.2	53.6	10.4	9.9	31.6	1.0	23.6	13.8	2.7
21.0	16.8	56.1	9.5	9.3	42.4	1.0	23.8	14.1	2.8
21.5	16.6	55.6	9.0	9.1	40.5	1.0	24.7	14.2	2.8
22.0	16.3	64.1	8.8	9.0	109.8	1.0	23.9	14.2	2.8
22.5	16.1	58.8	8.7	9.0	61.2	1.0	23.4	14.7	2.8
23.0	16.0	61.0	9.0	9.2	80.7	1.0	24.9	14.9	2.7
23.5	16.2	58.6	9.4	9.6	62.0	1.0	24.2	15.4	2.7
24.0	16.3	55.6	9.8	9.6	44.2	1.0	24.5	15.7	2.7
24.5	16.2	57.3	10.3	9.6	54.6	1.0	24.9	16.1	2.6
25.0	16.2	58.7	10.6	9.5	64.6	1.0	25.4	16.3	2.7
25.5	16.2	55.9	10.6	9.4	47.2	1.0	25.0	16.3	2.8
26.0	16.1	56.9	10.6	9.4	53.4	1.0	24.6	16.7	2.9
26.5	16.1	56.5	10.7	9.3	50.7	1.0	23.4	17.0	2.9
27.0	16.1	58.5	10.7	9.5	64.4	1.0	26.3	17.3	3.1
27.5	16.2	63.1	10.9	9.8	110.2	1.0	24.4	17.2	3.2
28.0	16.3	57.1	11.1	10.4	56.2	1.0	24.4	17.3	3.3
28.5	16.4	53.9	11.4	10.9	39.3	1.0	24.7	17.5	3.3
29.0	16.5	61.9	11.9	11.1	98.6	1.0	23.5	18.6	3.3
29.5	16.5	60.5	12.2	11.2	84.6	1.0	25.2	17.3	3.4
30.0	16.6	54.4	12.4	10.9	41.7	1.0	24.6	17.1	3.5
30.5	16.5	57.5	12.2	10.5	59.4	1.0	24.7	17.6	3.6
31.0	16.5	54.3	11.5	10.2	40.5	1.0	22.9	17.7	3.6
31.5	16.4	51.6	10.8	10.1	29.6	1.0	21.6	16.6	3.7
32.0	16.3	53.9	9.9	10.1	38.4	1.0	24.0	15.9	3.8
32.5	16.3	54.5	9.3	10.5	40.7	1.0	23.3	15.3	3.8
33.0	16.2	49.3	8.3	11.2	22.3	1.1	23.3	16.7	3.9
33.5	15.9	49.0	8.2	10.4	22.2	1.0	25.3	15.3	4.0
34.0	15.7	49.1	8.1	10.0	22.9	1.0	23.5	16.3	4.1
34.5	15.2	51.3	8.4	9.1	30.6	1.0	23.9	16.0	3.8
35.0	15.5	59.1	7.4	8.8	69.0	1.0	25.8	15.0	3.9
35.5	15.7	72.6	7.7	9.4	332.2	1.0	24.2	15.9	4.0
36.0	15.6	57.4	8.1	9.7	59.9	1.0	23.4	16.5	3.7
36.5	15.6	60.6	8.9	10.1	90.7	1.0	23.5	15.2	4.0
37.0	15.8	56.4	9.5	10.6	56.9	1.0	22.9	15.9	3.8
37.5	15.9	59.6	10.3	11.7	85.9	1.0	22.5	15.8	3.5
38.0	16.1	48.8	11.1	13.1	25.9	1.0	25.3	16.7	3.7
38.5	16.2	47.9	11.9	15.0	24.2	1.0	26.0	15.1	3.5
39.0	16.4	51.6	12.5	16.7	37.9	1.0	23.2	15.2	3.3
39.5	16.5	51.4	12.8	17.2	38.1	1.0	23.2	15.0	3.3
40.0	16.4	46.7	13.1	17.0	22.8	1.0	28.0	13.8	3.2
40.5	16.1	49.5	13.3	15.7	32.3	1.0	28.5	15.0	3.3
41.0	15.5	47.9	13.2	14.5	28.0	1.0	26.4	13.9	3.5
41.5	15.2	46.0	13.2	13.6	22.8	1.0	21.2	14.3	3.5
42.0	14.9	44.4	13.4	13.2	19.4	1.0	23.3	14.6	3.7
42.5	14.7	44.8	13.5	12.9	20.7	1.0	22.4	14.6	3.9
43.0	14.6	43.2	13.4	12.6	17.5	1.0	24.1	13.4	4.0
43.5	14.4	43.7	13.1	13.4	18.8	1.0	23.1	13.1	4.2
44.0	13.9	40.7	11.9	13.4	13.9	1.0	22.4	13.6	4.3
44.5	12.9	42.3	10.4	13.1	18.1	1.0	23.4	12.6	4.6
45.0	11.8	42.2	9.3	14.4	20.5	1.1	20.8	11.9	4.2

Typical Performance Data

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: $V_S = +4.75\text{ V}$, $I_S = 129\text{mA}$ @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10.0	10.4	62.4	6.0	4.9	109.5	0.8	18.5	5.9	5.8
10.5	12.0	60.6	6.8	5.0	80.8	0.8	17.8	6.3	5.1
11.0	13.5	62.1	7.9	5.3	87.8	0.8	17.6	6.8	4.5
11.5	15.0	56.2	9.3	5.7	40.8	0.8	17.9	7.5	4.0
12.0	16.4	54.9	11.3	6.3	33.0	0.8	19.3	8.1	3.5
12.5	17.6	55.3	13.7	7.0	32.4	0.8	19.1	8.8	3.0
13.0	18.6	53.4	16.2	8.0	25.0	0.9	19.8	9.4	2.6
13.5	19.2	53.7	18.4	9.0	25.2	0.9	20.7	10.2	2.4
14.0	19.8	53.0	19.7	10.2	22.7	0.9	20.8	10.9	2.1
14.5	20.2	53.1	20.7	11.4	23.0	0.9	21.2	11.5	2.0
15.0	20.3	54.1	21.5	12.3	25.9	0.9	22.4	12.1	1.9
15.5	20.3	53.3	22.1	13.0	23.8	1.0	21.9	12.9	1.8
16.0	20.2	52.6	22.0	13.2	22.0	1.0	22.4	12.8	1.8
16.5	20.3	52.7	21.5	13.1	22.3	1.0	23.1	13.2	1.6
17.0	20.2	52.4	21.2	12.9	21.8	1.0	22.8	13.4	1.6
17.5	20.1	52.2	21.6	12.7	21.5	1.0	23.3	13.1	1.6
18.0	19.9	52.4	20.9	12.4	22.6	0.9	24.3	13.3	1.6
18.5	19.7	53.4	18.7	12.1	25.7	1.0	23.8	13.2	1.7
19.0	19.5	52.4	16.2	11.5	23.0	1.0	23.0	13.3	1.8
19.5	19.2	53.5	13.9	11.0	26.4	1.0	24.0	13.2	1.8
20.0	18.9	52.1	12.2	10.4	22.6	1.0	24.3	13.3	1.9
20.5	18.5	52.5	10.7	9.9	23.8	1.0	24.9	13.4	1.9
21.0	18.0	55.4	9.6	9.2	33.3	1.0	23.8	13.7	1.9
21.5	17.8	56.4	9.0	8.9	37.6	1.0	25.2	13.6	1.9
22.0	17.5	60.7	8.5	8.8	62.2	1.0	24.8	13.8	2.0
22.5	17.2	57.6	8.2	8.7	44.4	1.0	24.9	14.1	2.0
23.0	17.1	64.8	8.3	8.7	104.4	1.0	24.6	14.2	1.9
23.5	17.2	59.0	8.6	9.2	54.1	1.0	25.7	14.8	1.9
24.0	17.3	56.3	9.1	9.3	40.3	1.0	25.2	15.2	1.8
24.5	17.3	57.0	9.7	9.3	45.0	1.0	25.6	15.4	1.9
25.0	17.3	56.6	10.2	9.2	43.4	1.0	26.4	15.7	1.8
25.5	17.2	55.8	10.2	9.1	39.6	1.0	26.7	15.7	1.9
26.0	17.2	55.8	10.1	8.9	39.6	1.0	26.5	16.1	1.9
26.5	17.1	57.3	10.0	8.8	46.9	1.0	25.6	16.2	2.1
27.0	17.1	54.5	10.0	9.0	34.5	1.0	25.5	16.7	2.2
27.5	17.2	53.7	10.3	9.3	32.0	1.0	25.4	16.6	2.3
28.0	17.2	55.8	10.8	9.8	41.8	1.0	23.9	16.5	2.4
28.5	17.3	58.4	11.6	10.2	57.6	1.0	23.7	16.8	2.5
29.0	17.3	54.6	12.3	10.4	37.4	1.0	25.3	17.9	2.5
29.5	17.3	57.2	12.4	10.5	51.2	1.0	23.7	16.7	2.6
30.0	17.3	62.0	12.0	10.4	87.9	1.0	27.5	16.5	2.6
30.5	17.3	56.5	11.2	10.0	45.5	1.0	24.5	17.2	2.7
31.0	17.3	58.3	10.6	9.6	55.2	1.0	29.4	17.1	2.8
31.5	17.3	55.5	10.3	9.5	39.9	1.0	25.5	16.0	2.8
32.0	17.3	54.9	10.0	9.5	37.0	1.0	25.5	15.2	2.7
32.5	17.4	57.2	9.8	9.9	48.0	1.0	26.6	14.9	2.8
33.0	17.4	48.4	8.8	10.8	17.2	1.0	24.6	15.9	2.8
33.5	17.0	49.2	7.9	10.8	19.6	1.1	25.8	14.6	2.9
34.0	16.8	51.9	7.5	10.6	26.6	1.1	25.8	15.6	2.9
34.5	16.3	49.4	7.7	9.6	20.9	1.0	24.9	15.5	2.9
35.0	16.4	49.1	6.6	8.4	18.1	1.1	26.1	14.4	2.8
35.5	16.8	71.2	6.7	9.2	232.2	1.1	27.6	15.7	2.9
36.0	16.9	61.6	7.2	9.4	79.8	1.1	28.1	15.9	2.6
36.5	16.8	64.1	8.1	9.4	111.4	1.0	24.2	14.7	1.6
37.0	16.9	58.1	9.0	9.8	57.4	1.0	23.7	15.4	2.8
37.5	17.1	55.0	9.8	10.8	41.7	1.0	28.7	15.5	2.7
38.0	17.3	53.3	10.3	12.0	35.3	1.0	25.7	16.2	2.6
38.5	17.5	52.2	11.0	14.0	32.3	1.0	24.1	15.8	2.4
39.0	17.8	47.7	11.6	15.7	19.8	1.0	25.1	15.6	2.3
39.5	18.0	47.9	12.4	16.5	20.6	1.0	24.6	15.0	2.0
40.0	18.0	49.6	13.0	16.2	25.8	1.0	24.5	14.4	2.0
40.5	17.6	49.0	12.5	14.8	24.5	1.0	26.2	14.6	2.1
41.0	17.0	47.1	11.6	13.6	20.1	1.0	27.1	13.6	2.4
41.5	16.6	44.4	11.1	12.6	15.0	1.0	24.2	14.2	2.6
42.0	16.4	47.6	11.4	12.3	22.0	1.0	28.6	14.3	2.6
42.5	16.3	44.5	12.6	12.3	15.8	1.0	23.4	14.2	2.6
43.0	16.4	47.6	14.2	12.7	22.8	1.0	23.0	13.4	2.7
43.5	16.6	42.1	16.2	14.0	12.3	1.0	22.9	13.0	2.7
44.0	16.5	41.2	15.7	14.9	11.3	1.0	24.9	13.4	2.8
44.5	15.7	45.2	12.3	14.1	18.8	1.0	24.0	12.4	3.0
45.0	14.5	43.3	9.6	13.5	16.3	1.1	22.8	11.8	3.4

Typical Performance Data

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: $V_s = +5\text{ V}$, $I_s = 137\text{ mA}$ @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)			(dBm)	(dBm)	(dB)
10.0	10.4	61.6	6.0	4.8	99.2	0.8	19.3	6.4	5.9
10.5	12.0	59.5	6.8	5.0	70.7	0.8	18.2	6.8	5.1
11.0	13.6	57.9	7.9	5.3	53.4	0.8	18.0	7.3	4.6
11.5	15.1	57.0	9.4	5.7	44.3	0.8	18.3	7.8	4.0
12.0	16.5	56.1	11.3	6.3	37.3	0.8	19.2	8.5	3.5
12.5	17.7	52.9	13.8	6.9	24.7	0.8	19.4	9.4	3.1
13.0	18.6	54.8	16.2	7.8	29.2	0.9	20.2	9.8	2.7
13.5	19.2	53.0	18.4	8.8	23.4	0.9	21.3	10.8	2.5
14.0	19.8	53.7	19.6	10.1	24.5	0.9	21.1	11.3	2.2
14.5	20.2	53.2	20.7	11.4	23.1	0.9	21.4	12.0	2.0
15.0	20.3	53.2	21.7	12.4	23.2	0.9	22.5	12.6	1.9
15.5	20.3	52.8	22.4	13.1	22.4	1.0	22.2	13.3	1.8
16.0	20.2	51.7	22.3	13.3	20.0	1.0	23.0	13.2	1.7
16.5	20.2	52.5	21.8	13.1	21.9	1.0	22.8	13.7	1.6
17.0	20.2	52.6	21.4	12.8	22.3	1.0	22.8	13.9	1.6
17.5	20.0	52.5	21.7	12.5	22.3	0.9	23.1	13.7	1.6
18.0	19.8	52.1	20.8	12.2	21.9	0.9	24.1	13.9	1.7
18.5	19.6	53.6	18.5	11.8	26.2	0.9	22.6	13.8	1.7
19.0	19.5	52.3	16.0	11.2	22.9	0.9	23.9	13.8	1.8
19.5	19.2	53.3	13.7	10.8	25.7	1.0	24.1	13.9	1.9
20.0	18.9	53.3	12.1	10.4	25.7	1.0	24.4	13.9	1.9
20.5	18.5	52.9	10.7	9.9	24.9	1.0	25.0	14.0	2.0
21.0	18.1	54.6	9.6	9.3	30.5	1.0	25.1	14.3	2.0
21.5	17.8	56.4	8.9	9.0	37.5	1.0	25.2	14.2	2.0
22.0	17.5	59.9	8.5	8.8	56.6	1.0	24.4	14.3	2.0
22.5	17.2	58.0	8.2	8.5	46.3	1.0	25.1	14.8	2.0
23.0	17.0	62.2	8.3	8.5	76.9	1.0	25.0	14.8	1.9
23.5	17.2	57.4	8.6	8.9	44.7	1.0	24.9	15.3	2.0
24.0	17.3	56.4	9.1	9.1	40.9	1.0	26.3	15.8	1.9
24.5	17.3	57.8	9.7	9.2	48.8	1.0	26.8	16.0	1.9
25.0	17.3	57.3	10.2	9.2	46.5	1.0	25.7	16.3	1.9
25.5	17.3	54.1	10.2	9.0	32.5	1.0	26.9	16.3	2.0
26.0	17.2	56.4	10.1	8.9	42.1	1.0	27.3	16.6	2.0
26.5	17.2	56.7	9.9	8.8	43.7	1.0	25.2	16.8	2.2
27.0	17.2	54.7	10.0	9.0	35.0	1.0	25.6	17.2	2.3
27.5	17.2	57.0	10.3	9.4	46.4	1.0	26.8	17.2	2.3
28.0	17.3	59.3	10.8	9.8	61.9	1.0	30.1	17.0	2.4
28.5	17.3	57.2	11.7	9.9	49.7	1.0	23.9	17.2	2.5
29.0	17.3	56.0	12.3	10.0	43.7	1.0	28.6	18.5	2.5
29.5	17.3	59.8	12.4	10.2	68.2	1.0	26.1	17.2	2.6
30.0	17.4	58.4	11.9	10.2	57.2	1.0	27.7	17.1	2.7
30.5	17.4	57.3	11.1	10.0	49.2	1.0	22.9	17.6	2.8
31.0	17.4	54.8	10.5	9.7	36.5	1.0	26.3	17.6	2.8
31.5	17.4	50.3	10.3	9.5	21.4	1.0	26.9	16.4	2.8
32.0	17.4	56.9	10.0	9.4	45.8	1.0	29.7	15.7	2.8
32.5	17.5	56.1	9.9	9.8	41.8	1.0	27.3	15.3	2.8
33.0	17.5	49.5	8.8	10.7	19.3	1.0	26.2	16.6	2.9
33.5	17.0	46.4	7.9	10.8	14.1	1.1	27.2	15.2	3.0
34.0	16.9	51.5	7.4	10.8	25.2	1.1	24.6	16.2	3.1
34.5	16.4	48.3	7.6	9.7	18.1	1.0	29.8	16.0	3.1
35.0	16.5	48.0	6.4	8.4	15.7	1.1	24.4	15.0	3.0
35.5	16.9	54.5	6.6	9.0	33.2	1.1	25.5	16.1	3.0
36.0	16.9	57.8	7.1	8.8	49.9	1.0	22.1	16.1	2.9
36.5	16.8	58.1	8.1	8.8	54.8	1.0	24.6	14.9	2.3
37.0	16.9	53.8	9.0	9.2	34.4	1.0	28.7	15.9	2.7
37.5	17.1	61.0	9.8	10.4	81.8	1.0	22.5	16.0	2.9
38.0	17.3	55.3	10.3	11.9	43.8	1.0	28.3	16.6	2.6
38.5	17.6	51.4	10.9	14.5	29.3	1.0	19.7	16.2	2.4
39.0	17.9	52.7	11.6	16.8	34.6	1.0	23.9	16.4	2.3
39.5	18.1	50.3	12.4	17.3	27.0	1.0	23.9	15.3	2.1
40.0	18.0	48.8	13.0	15.9	23.2	1.0	24.5	15.0	2.1
40.5	17.6	50.8	12.3	13.7	29.6	1.0	22.9	15.0	2.2
41.0	17.0	45.5	11.3	12.5	16.5	1.0	23.9	14.0	2.4
41.5	16.5	48.1	11.0	11.6	22.4	1.0	21.2	14.1	2.5
42.0	16.4	46.8	11.3	11.6	19.6	1.0	26.5	14.8	2.7
42.5	16.4	46.1	12.6	12.2	18.8	1.0	25.4	14.7	2.8
43.0	16.4	44.2	14.4	13.6	15.5	1.0	26.3	14.0	2.8
43.5	16.7	40.8	16.7	16.0	10.6	1.0	22.4	13.7	2.7
44.0	16.6	42.6	15.8	17.2	13.3	1.0	24.0	13.9	2.8
44.5	15.8	41.3	12.3	14.6	12.0	1.0	21.9	13.0	3.1
45.0	14.5	41.8	9.4	12.6	13.7	1.1	23.3	12.3	3.1

Typical Performance Data

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: $V_s = +5.25$ V, $I_s = 145$ mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)			(dBm)	(dBm)	(dB)
10.0	10.5	62.9	6.0	4.8	113.7	0.8	19.2	6.9	5.9
10.5	12.1	61.2	6.8	5.0	84.9	0.8	18.6	7.4	5.2
11.0	13.7	59.4	7.9	5.3	62.6	0.8	18.3	7.8	4.6
11.5	15.2	56.9	9.4	5.7	43.7	0.8	18.7	8.4	4.1
12.0	16.6	55.4	11.3	6.3	34.1	0.8	19.3	9.0	3.6
12.5	17.7	55.6	13.8	6.9	33.2	0.8	19.9	9.8	3.2
13.0	18.6	54.6	16.2	7.8	28.5	0.9	20.1	10.4	2.8
13.5	19.3	54.5	18.4	8.7	27.6	0.9	21.0	11.2	2.5
14.0	19.8	52.9	19.7	10.0	22.4	0.9	21.6	11.8	2.3
14.5	20.2	53.2	20.7	11.3	23.1	0.9	21.5	12.4	2.0
15.0	20.3	52.9	21.8	12.4	22.5	0.9	22.6	13.0	1.9
15.5	20.3	53.4	22.5	13.2	24.0	1.0	22.0	13.6	1.9
16.0	20.3	51.8	22.4	13.3	20.2	1.0	22.8	13.6	1.7
16.5	20.3	52.3	21.9	13.1	21.2	1.0	23.4	14.0	1.7
17.0	20.2	52.3	21.5	12.7	21.3	1.0	23.3	14.4	1.7
17.5	20.1	52.5	21.7	12.4	22.2	0.9	23.7	14.1	1.7
18.0	19.9	52.7	20.8	12.1	23.4	0.9	24.8	14.3	1.7
18.5	19.6	52.4	18.4	11.7	22.7	0.9	24.7	14.3	1.7
19.0	19.5	54.2	15.9	11.1	28.2	0.9	23.5	14.3	1.8
19.5	19.2	52.7	13.6	10.7	23.9	1.0	23.6	14.4	1.9
20.0	18.9	52.3	12.0	10.4	23.0	1.0	24.7	14.4	1.9
20.5	18.5	53.5	10.6	9.9	26.7	1.0	24.4	14.5	2.0
21.0	18.1	55.9	9.6	9.4	35.3	1.0	25.2	14.8	2.0
21.5	17.9	57.8	8.9	9.0	43.7	1.0	25.5	14.8	2.0
22.0	17.5	59.7	8.5	8.8	55.3	1.0	24.8	14.9	2.0
22.5	17.3	57.5	8.2	8.4	43.1	1.0	24.4	15.2	2.0
23.0	17.1	61.6	8.2	8.4	71.3	1.0	25.7	15.3	1.9
23.5	17.2	56.4	8.6	8.8	39.6	1.0	24.8	15.9	2.0
24.0	17.3	56.1	9.1	9.1	39.1	1.0	25.9	16.2	1.9
24.5	17.4	56.2	9.7	9.2	40.4	1.0	25.6	16.5	1.9
25.0	17.4	55.8	10.2	9.2	38.8	1.0	25.5	16.7	1.9
25.5	17.3	58.0	10.2	9.0	50.0	1.0	26.5	16.8	2.1
26.0	17.3	56.7	10.1	8.8	43.2	1.0	26.5	17.2	2.1
26.5	17.3	56.4	9.9	8.8	41.6	1.0	26.2	17.3	2.2
27.0	17.3	56.3	9.9	9.0	41.5	1.0	27.7	17.7	2.3
27.5	17.3	57.1	10.3	9.4	46.8	1.0	26.0	17.7	2.4
28.0	17.3	56.3	10.9	9.8	43.5	1.0	27.4	17.5	2.5
28.5	17.4	54.2	11.7	9.9	34.7	1.0	25.2	17.7	2.5
29.0	17.4	54.5	12.3	9.9	36.1	0.9	26.9	18.9	2.6
29.5	17.4	55.6	12.3	10.1	41.2	1.0	25.5	17.5	2.6
30.0	17.5	57.1	11.9	10.1	48.6	1.0	26.0	17.4	2.7
30.5	17.5	57.8	11.0	10.0	51.7	1.0	23.8	18.2	2.8
31.0	17.5	52.8	10.5	9.6	28.5	1.0	25.3	18.1	2.9
31.5	17.5	51.2	10.3	9.4	23.3	1.0	27.4	16.9	2.9
32.0	17.6	56.6	10.1	9.3	43.6	1.0	27.1	16.3	2.8
32.5	17.6	55.0	9.9	9.8	36.3	1.0	24.2	15.9	2.8
33.0	17.7	49.7	8.8	10.8	19.4	1.0	24.5	17.0	2.9
33.5	17.2	50.4	7.9	10.9	22.0	1.1	23.4	15.7	3.0
34.0	17.0	49.2	7.4	10.8	19.0	1.1	24.3	16.6	3.2
34.5	16.5	47.5	7.6	9.7	16.2	1.0	29.0	16.5	3.1
35.0	16.6	49.4	6.4	8.4	18.1	1.1	25.8	15.3	3.2
35.5	17.0	62.4	6.6	9.0	80.8	1.1	25.5	16.6	3.2
36.0	17.0	68.5	7.2	8.6	168.0	1.0	24.7	16.7	3.0
36.5	16.8	62.5	8.1	8.6	88.5	1.0	23.4	15.5	-0.4
37.0	17.0	56.1	9.1	9.0	43.8	1.0	26.7	16.2	3.1
37.5	17.2	53.9	9.8	10.3	35.8	1.0	26.3	16.3	2.9
38.0	17.4	57.3	10.3	11.9	54.4	1.0	26.0	17.0	2.7
38.5	17.7	53.4	10.9	14.7	36.4	1.0	27.9	16.6	2.6
39.0	18.0	48.1	11.6	17.1	20.4	1.0	27.5	16.6	2.4
39.5	18.3	46.3	12.4	17.3	16.8	1.0	23.6	16.0	2.0
40.0	18.2	47.9	13.0	15.5	20.8	1.0	24.0	15.3	2.1
40.5	17.7	49.1	12.3	13.4	24.2	1.0	26.8	15.3	2.2
41.0	17.1	50.3	11.3	12.1	28.3	1.0	24.9	14.6	2.4
41.5	16.6	46.4	11.1	11.3	18.3	1.0	23.8	14.8	2.3
42.0	16.4	44.7	11.3	11.4	15.3	1.0	22.5	15.3	2.7
42.5	16.5	45.5	12.6	12.2	17.2	1.0	24.1	15.2	2.8
43.0	16.6	42.8	14.4	14.0	13.1	1.0	26.6	14.6	2.9
43.5	16.8	41.6	16.6	16.9	11.5	1.0	23.6	14.2	3.0
44.0	16.7	42.0	15.8	18.0	12.3	1.0	30.4	14.6	2.9
44.5	15.8	42.9	12.4	14.4	14.3	1.0	24.0	13.5	3.0
45.0	14.6	43.8	9.4	12.0	16.9	1.0	21.6	12.5	3.5

Typical Performance Data

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: $V_s = +4.75$ V, $I_s = 130$ mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10.0	8.6	66.6	6.6	5.2	242.9	0.9	17.4	5.4	7.7
10.5	10.2	59.5	7.6	5.5	96.6	0.8	16.4	5.9	6.9
11.0	11.8	57.0	8.8	5.8	66.0	0.8	16.5	6.3	6.2
11.5	13.3	57.7	10.5	6.4	65.7	0.8	16.8	7.0	5.6
12.0	14.6	55.9	12.5	7.1	49.9	0.8	17.9	7.6	5.0
12.5	15.8	55.9	15.1	8.0	47.0	0.9	18.0	8.4	4.6
13.0	16.6	54.4	17.5	9.0	38.0	0.9	18.8	8.8	4.2
13.5	17.2	54.4	19.7	10.0	36.9	0.9	19.8	9.6	3.9
14.0	17.7	52.7	21.1	11.1	29.7	0.9	20.2	10.1	3.6
14.5	17.9	53.3	21.5	11.9	31.5	0.9	20.5	10.5	3.4
15.0	18.0	53.1	21.5	12.5	31.0	1.0	21.2	10.9	3.3
15.5	17.9	52.9	21.2	13.0	30.6	1.0	21.1	11.4	3.1
16.0	17.9	53.0	21.1	13.1	31.1	1.0	22.2	11.3	3.0
16.5	17.9	52.5	21.1	13.1	29.7	1.0	22.4	11.7	3.0
17.0	17.8	52.4	21.3	13.0	29.7	1.0	22.2	12.0	3.0
17.5	17.6	53.1	21.1	13.0	32.9	1.0	22.5	11.8	3.0
18.0	17.4	53.4	19.7	12.7	34.6	1.0	23.2	12.0	3.0
18.5	17.2	53.7	17.4	12.3	36.5	1.0	22.8	12.1	3.1
19.0	17.0	52.4	15.2	11.7	31.6	1.0	22.5	12.2	3.2
19.5	16.7	53.0	13.2	11.0	34.1	1.0	23.1	12.1	3.2
20.0	16.4	52.3	11.7	10.5	31.4	1.0	22.9	12.1	3.3
20.5	16.1	54.8	10.6	10.0	42.4	1.0	23.6	12.3	3.3
21.0	15.7	55.9	9.9	9.5	48.6	1.0	22.7	12.6	3.3
21.5	15.5	56.3	9.6	9.4	51.3	1.0	23.6	12.7	3.3
22.0	15.3	60.3	9.4	9.3	84.4	1.0	23.0	12.8	3.3
22.5	15.1	56.0	9.4	9.4	52.3	1.0	23.5	13.2	3.3
23.0	15.1	59.4	9.7	9.6	79.3	1.0	23.9	13.4	3.2
23.5	15.2	56.1	10.1	10.0	54.4	1.0	24.9	14.0	3.2
24.0	15.3	56.1	10.6	10.0	55.3	1.0	24.2	14.3	3.2
24.5	15.3	55.6	11.0	10.0	52.9	1.0	24.1	14.6	3.3
25.0	15.2	58.7	11.0	9.8	75.4	1.0	23.9	14.8	3.4
25.5	15.2	54.7	10.8	9.7	47.7	1.0	24.6	14.9	3.4
26.0	15.2	53.6	10.6	9.6	41.6	1.0	25.0	15.2	3.5
26.5	15.2	56.5	10.5	9.5	58.0	1.0	24.9	15.5	3.6
27.0	15.3	54.5	10.6	9.8	46.3	1.0	25.4	15.9	3.6
27.5	15.4	54.6	11.0	10.2	47.3	1.0	23.3	15.9	3.7
28.0	15.5	60.5	11.3	10.9	94.9	1.0	25.0	15.9	3.7
28.5	15.6	54.7	11.7	11.5	49.1	1.0	23.2	16.2	3.7
29.0	15.7	55.3	12.3	11.7	52.9	1.0	23.1	17.4	3.8
29.5	15.6	54.5	12.7	11.7	48.5	1.0	24.2	16.1	3.9
30.0	15.6	51.5	12.8	11.4	34.2	1.0	25.1	15.9	4.0
30.5	15.6	54.6	12.5	10.9	48.8	1.0	23.1	16.4	4.1
31.0	15.5	54.8	11.7	10.6	50.1	1.0	24.3	16.3	4.2
31.5	15.4	52.9	10.8	10.4	39.7	1.0	25.7	15.6	4.3
32.0	15.3	52.6	9.9	10.3	38.2	1.0	22.2	14.6	4.4
32.5	15.2	51.4	9.1	10.4	32.9	1.0	24.7	14.4	4.5
33.0	15.0	48.1	8.3	10.5	22.9	1.0	22.1	15.6	4.6
33.5	14.5	48.6	8.3	9.8	25.3	1.0	22.1	14.1	4.7
34.0	14.2	51.0	8.2	9.6	34.1	1.0	26.2	15.0	4.7
34.5	13.8	54.7	8.2	9.2	54.4	1.0	21.2	14.6	4.6
35.0	14.2	56.8	7.6	9.4	65.1	1.0	21.7	14.2	4.8
35.5	14.5	65.5	8.1	10.1	179.6	1.0	22.3	15.0	4.7
36.0	14.6	58.4	8.6	10.5	81.5	1.0	23.8	15.4	4.4
36.5	14.6	61.5	9.5	10.9	121.0	1.0	27.5	14.3	6.6
37.0	14.7	50.1	10.3	11.4	33.5	1.0	21.9	14.9	4.5
37.5	14.8	51.5	11.3	12.6	41.3	1.0	16.9	14.7	4.3
38.0	14.9	52.6	12.2	14.3	48.7	1.0	17.4	15.7	4.4
38.5	15.0	49.7	13.1	16.4	36.0	1.0	24.0	13.8	4.0
39.0	15.2	47.1	13.6	18.1	27.8	1.0	24.9	13.8	4.1
39.5	15.2	48.5	13.7	18.3	33.5	1.0	22.8	13.5	3.9
40.0	15.0	46.3	13.7	17.4	26.7	1.0	22.3	12.2	4.0
40.5	14.5	45.4	13.5	15.7	24.8	1.0	24.1	13.7	4.2
41.0	14.0	47.1	13.0	14.7	31.0	1.0	22.1	12.5	4.4
41.5	13.6	46.0	12.9	13.8	28.1	1.0	22.6	12.7	4.6
42.0	13.3	46.6	13.0	13.5	30.8	1.0	25.7	13.3	4.7
42.5	13.0	48.9	13.1	13.0	41.5	1.0	21.5	12.9	4.9
43.0	12.8	43.7	12.9	12.9	23.1	1.0	21.8	11.8	5.1
43.5	12.5	42.5	12.4	13.5	20.9	1.0	23.1	11.9	5.1
44.0	11.8	42.3	11.3	13.3	21.8	1.0	22.1	11.8	5.3
44.5	10.8	43.6	10.3	13.8	28.0	1.0	21.2	11.0	5.4
45.0	9.6	40.9	9.5	15.0	24.0	1.1	21.1	9.8	5.4

Typical Performance Data

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: $V_s = +5\text{ V}$, $I_s = 137\text{ mA}$ @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)			(dBm)	(dBm)	(dB)
10.0	8.7	61.9	6.6	5.3	140.7	0.9	17.6	5.8	7.6
10.5	10.3	60.4	7.6	5.5	105.5	0.8	16.7	6.2	6.9
11.0	11.9	60.7	8.9	5.9	99.4	0.8	17.0	6.7	6.3
11.5	13.4	56.5	10.5	6.4	56.3	0.8	17.3	7.3	5.6
12.0	14.7	56.6	12.5	7.1	53.5	0.8	18.2	7.9	5.0
12.5	15.8	57.0	15.1	8.0	53.0	0.9	18.3	8.6	4.6
13.0	16.6	53.8	17.5	9.0	35.4	0.9	19.1	9.2	4.2
13.5	17.3	54.1	19.7	10.0	35.2	0.9	20.2	9.9	3.9
14.0	17.7	54.9	21.1	11.1	37.7	0.9	20.7	10.3	3.7
14.5	18.0	53.0	21.6	11.9	30.3	0.9	20.8	10.8	3.4
15.0	18.0	54.1	21.6	12.6	34.4	1.0	21.6	11.1	3.3
15.5	18.0	53.2	21.3	13.0	31.4	1.0	21.3	11.6	3.2
16.0	18.0	53.6	21.2	13.2	33.1	1.0	22.0	11.6	3.1
16.5	17.9	52.6	21.2	13.2	29.8	1.0	22.5	12.0	3.0
17.0	17.9	52.2	21.3	13.1	28.8	1.0	22.1	12.4	3.0
17.5	17.7	52.6	21.1	13.0	30.8	1.0	22.7	12.1	3.0
18.0	17.5	52.9	19.6	12.8	32.6	1.0	23.1	12.3	3.0
18.5	17.3	52.8	17.4	12.3	32.4	1.0	23.1	12.5	3.1
19.0	17.1	53.3	15.2	11.7	34.7	1.0	22.4	12.5	3.2
19.5	16.8	52.7	13.2	11.1	32.4	1.0	23.8	12.5	3.2
20.0	16.5	52.8	11.7	10.6	32.9	1.0	24.1	12.5	3.3
20.5	16.2	53.5	10.6	10.1	36.1	1.0	23.2	12.6	3.3
21.0	15.8	55.5	9.9	9.6	46.4	1.0	23.3	13.0	3.3
21.5	15.6	57.2	9.6	9.4	56.3	1.0	23.3	13.0	3.3
22.0	15.4	60.7	9.4	9.4	86.9	1.0	22.9	13.2	3.3
22.5	15.2	59.1	9.4	9.4	73.6	1.0	23.9	13.6	3.3
23.0	15.2	59.9	9.7	9.6	82.3	1.0	24.6	13.8	3.2
23.5	15.4	57.3	10.1	10.0	62.1	1.0	23.8	14.3	3.2
24.0	15.4	55.0	10.6	10.0	48.3	1.0	24.5	14.7	3.2
24.5	15.4	55.4	11.0	10.0	51.0	1.0	25.1	14.9	3.3
25.0	15.3	57.1	11.0	9.8	62.2	1.0	23.8	15.2	3.3
25.5	15.3	57.9	10.8	9.7	68.0	1.0	25.1	15.3	3.4
26.0	15.3	56.1	10.5	9.6	55.1	1.0	25.3	15.7	3.5
26.5	15.3	55.9	10.5	9.5	53.3	1.0	24.5	15.9	3.6
27.0	15.4	59.0	10.6	9.8	76.1	1.0	23.6	16.4	3.7
27.5	15.5	58.7	10.9	10.2	74.5	1.0	23.5	16.3	3.7
28.0	15.7	61.6	11.3	11.0	105.4	1.0	26.3	16.3	3.8
28.5	15.8	54.7	11.7	11.5	48.3	1.0	24.2	16.6	3.8
29.0	15.8	54.1	12.3	11.8	45.4	1.0	28.1	17.7	3.8
29.5	15.8	56.8	12.7	11.7	62.3	1.0	24.1	16.4	4.0
30.0	15.8	53.7	12.8	11.4	43.4	1.0	23.6	16.3	4.0
30.5	15.8	58.1	12.5	10.9	71.6	1.0	24.1	16.7	4.1
31.0	15.7	60.9	11.7	10.6	98.0	1.0	22.7	16.8	4.3
31.5	15.6	53.5	10.8	10.5	41.9	1.0	21.9	15.9	4.4
32.0	15.5	56.4	9.9	10.4	58.2	1.0	25.7	15.0	4.4
32.5	15.4	50.4	9.1	10.4	28.8	1.0	24.2	14.9	4.5
33.0	15.2	52.3	8.3	10.6	36.2	1.0	24.7	15.9	4.6
33.5	14.8	51.1	8.3	9.9	33.0	1.0	24.2	14.4	4.7
34.0	14.4	48.6	8.2	9.7	25.3	1.0	23.2	15.3	4.8
34.5	14.0	50.6	8.2	9.2	33.1	1.0	24.2	15.1	4.6
35.0	14.4	59.1	7.6	9.5	83.3	1.0	22.8	14.4	4.7
35.5	14.7	60.1	8.1	10.2	94.0	1.0	23.3	15.5	4.8
36.0	14.8	65.6	8.6	10.6	181.9	1.0	25.3	15.6	4.5
36.5	14.8	62.3	9.5	10.9	129.5	1.0	22.9	14.5	4.1
37.0	14.9	56.1	10.3	11.4	65.4	1.0	19.4	15.2	4.5
37.5	15.0	51.2	11.3	12.6	38.7	1.0	16.1	15.1	4.5
38.0	15.1	48.3	12.2	14.2	28.9	1.0	24.6	16.1	4.4
38.5	15.3	51.6	13.1	16.3	44.0	1.0	24.1	14.0	4.2
39.0	15.4	48.2	13.8	18.3	30.5	1.0	23.7	14.1	4.1
39.5	15.4	53.0	13.7	18.4	55.0	1.0	23.2	13.8	4.0
40.0	15.2	46.0	13.7	17.3	25.3	1.0	23.9	12.5	3.8
40.5	14.7	46.3	13.5	15.6	26.7	1.0	22.8	14.2	4.2
41.0	14.2	45.6	13.1	14.5	25.6	1.0	21.4	13.0	4.4
41.5	13.8	45.2	13.1	13.7	25.0	1.0	22.9	13.3	4.9
42.0	13.5	50.6	13.1	13.4	47.5	1.0	21.2	13.5	4.7
42.5	13.3	42.5	13.2	13.1	19.3	1.0	22.0	13.5	4.9
43.0	13.0	44.0	13.1	13.2	23.3	1.0	22.3	12.4	4.9
43.5	12.8	42.0	12.5	13.7	19.3	1.0	21.7	12.0	5.2
44.0	12.1	45.1	11.5	13.6	29.5	1.0	22.6	12.1	5.4
44.5	11.1	44.4	10.3	13.8	29.9	1.0	23.6	11.3	5.7
45.0	9.8	42.7	9.6	15.4	28.6	1.1	25.1	9.9	5.9

Typical Performance Data

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: $V_s = +5\text{ V}$, $I_s = 144\text{ mA}$ @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)			(dBm)	(dBm)	(dB)
10.0	8.8	61.3	6.7	5.3	129.7	0.9	17.9	5.9	7.7
10.5	10.4	63.5	7.6	5.5	150.2	0.8	17.2	6.5	6.9
11.0	12.0	60.6	8.9	5.9	97.7	0.8	17.2	6.9	6.3
11.5	13.5	55.2	10.5	6.4	48.3	0.8	17.6	7.5	5.6
12.0	14.8	56.1	12.6	7.1	50.0	0.8	18.7	8.2	5.1
12.5	15.9	56.1	15.1	7.9	47.3	0.9	18.7	8.9	4.6
13.0	16.7	53.8	17.5	9.0	35.1	0.9	19.3	9.5	4.2
13.5	17.3	54.6	19.7	10.0	37.3	0.9	20.1	10.1	3.9
14.0	17.8	53.4	21.1	11.1	31.4	0.9	20.7	10.5	3.6
14.5	18.0	54.3	21.7	11.9	34.7	0.9	21.1	11.0	3.5
15.0	18.1	54.2	21.7	12.6	34.7	1.0	21.5	11.4	3.3
15.5	18.1	53.2	21.4	13.0	31.1	1.0	21.7	11.8	3.2
16.0	18.0	53.0	21.3	13.2	30.7	1.0	22.5	11.8	3.1
16.5	18.0	53.1	21.2	13.2	31.0	1.0	23.0	12.2	3.0
17.0	17.9	52.9	21.3	13.1	30.7	1.0	22.6	12.5	3.0
17.5	17.8	52.1	21.1	13.0	28.6	1.0	22.9	12.3	3.0
18.0	17.6	53.1	19.6	12.8	33.1	1.0	24.2	12.6	3.0
18.5	17.3	54.1	17.3	12.3	37.3	1.0	23.5	12.7	3.1
19.0	17.2	53.6	15.2	11.7	35.5	1.0	23.1	12.8	3.2
19.5	16.9	54.0	13.2	11.1	37.2	1.0	23.7	12.7	3.2
20.0	16.6	54.2	11.7	10.6	38.8	1.0	23.9	12.8	3.3
20.5	16.2	54.2	10.6	10.1	39.2	1.0	23.8	13.0	3.3
21.0	15.9	55.3	9.9	9.6	44.9	1.0	22.8	13.2	3.3
21.5	15.7	57.2	9.6	9.4	56.1	1.0	24.2	13.2	3.3
22.0	15.5	59.7	9.4	9.4	77.2	1.0	23.7	13.4	3.3
22.5	15.3	59.1	9.4	9.4	73.1	1.0	24.1	13.9	3.3
23.0	15.3	64.6	9.8	9.7	141.6	1.0	24.2	14.1	3.3
23.5	15.4	56.5	10.2	10.0	56.0	1.0	24.2	14.6	3.2
24.0	15.5	56.4	10.6	10.0	56.0	1.0	24.4	15.1	3.3
24.5	15.5	57.6	11.0	10.0	64.4	1.0	25.1	15.3	3.3
25.0	15.4	58.2	11.0	9.9	69.4	1.0	24.4	15.6	3.4
25.5	15.4	56.4	10.8	9.7	56.2	1.0	24.9	15.7	3.5
26.0	15.4	56.9	10.5	9.6	59.6	1.0	25.5	16.0	3.6
26.5	15.4	58.5	10.5	9.5	71.4	1.0	25.2	16.3	3.6
27.0	15.5	53.9	10.6	9.8	41.9	1.0	25.3	16.8	3.7
27.5	15.7	56.6	10.9	10.2	58.0	1.0	27.3	16.8	3.8
28.0	15.8	54.0	11.3	11.0	43.2	1.0	22.3	16.7	3.8
28.5	15.9	58.2	11.8	11.5	71.2	1.0	24.5	16.9	3.8
29.0	16.0	59.3	12.3	11.8	80.9	1.0	24.5	18.1	3.9
29.5	16.0	50.3	12.8	11.7	29.1	1.0	26.0	16.8	3.9
30.0	16.0	54.2	12.9	11.4	45.3	1.0	23.5	16.7	4.0
30.5	15.9	59.2	12.5	11.0	80.2	1.0	22.6	17.1	4.2
31.0	15.9	53.2	11.7	10.6	39.9	1.0	24.3	17.3	4.3
31.5	15.8	57.9	10.9	10.5	68.1	1.0	24.0	16.2	4.3
32.0	15.7	53.2	9.9	10.4	39.2	1.0	26.4	15.3	4.5
32.5	15.6	53.1	9.1	10.5	38.4	1.0	21.8	15.1	4.6
33.0	15.4	48.4	8.3	10.7	22.6	1.0	22.5	16.3	4.7
33.5	14.9	51.2	8.3	10.0	32.7	1.0	24.9	14.8	4.7
34.0	14.5	53.1	8.2	9.7	41.9	1.0	25.8	15.8	4.6
34.5	14.2	52.8	8.2	9.2	42.2	1.0	22.1	15.4	5.0
35.0	14.6	59.3	7.6	9.5	83.2	1.0	23.3	14.8	5.0
35.5	14.9	58.2	8.0	10.2	73.6	1.0	22.7	15.7	4.7
36.0	15.0	68.5	8.6	10.6	248.9	1.0	24.3	16.1	4.7
36.5	15.0	60.2	9.5	10.9	99.3	1.0	23.5	14.8	6.0
37.0	15.1	56.4	10.3	11.4	66.0	1.0	20.9	15.5	4.5
37.5	15.2	54.6	11.3	12.5	55.7	1.0	17.6	15.6	4.5
38.0	15.3	50.4	12.2	14.2	36.0	1.0	22.2	16.3	4.4
38.5	15.5	54.4	13.1	16.3	59.2	1.0	23.4	14.2	4.3
39.0	15.6	46.8	13.7	18.2	25.4	1.0	21.1	14.3	4.2
39.5	15.6	42.8	13.7	18.4	16.5	1.0	24.0	14.0	4.0
40.0	15.4	48.1	13.6	17.3	31.3	1.0	23.9	12.7	4.1
40.5	14.9	45.0	13.4	15.6	22.4	1.0	22.4	14.3	4.2
41.0	14.4	49.1	13.0	14.4	37.3	1.0	23.6	13.4	4.4
41.5	14.0	42.6	13.0	13.5	18.1	1.0	20.6	13.5	4.3
42.0	13.7	47.0	13.1	13.4	31.0	1.0	22.0	14.0	4.8
42.5	13.5	48.0	13.3	13.1	35.3	1.0	24.2	13.9	4.8
43.0	13.2	43.3	13.1	13.1	21.2	1.0	22.7	12.7	5.1
43.5	13.0	44.8	12.5	13.8	25.8	1.0	20.0	12.2	5.3
44.0	12.3	44.2	11.4	13.6	25.9	1.0	22.0	12.6	5.3
44.5	11.3	42.1	10.3	14.0	22.4	1.1	23.1	11.7	5.4
45.0	10.0	42.4	9.6	15.6	27.3	1.1	23.7	10.4	5.9