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_{CC} = +6 V; V_C = +6 V; V_B = +5 V , I_{CC} = 113 mA, I_C = 7.49 mA, I_B = 11.26 mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	IP-3 Input	1dB Comp. Output	3dB Comp. Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
4.00	17.9	-55.6	-6.6	-13.7	31.0	1.2	29.3	11.4	20.6	23.2	7.1
4.50	18.2	-56.1	-8.0	-13.8	34.5	1.1	29.8	11.7	20.4	22.9	6.4
5.00	18.3	-51.8	-9.4	-13.7	22.1	1.1	29.4	11.1	20.2	22.6	5.7
5.50	18.3	-51.8	-10.7	-14.2	22.9	1.0	29.3	10.9	20.0	22.4	5.0
6.00	18.4	-50.0	-11.7	-14.8	19.0	1.0	29.4	11.0	20.0	22.4	4.5
6.50	18.5	-49.2	-12.7	-15.4	17.5	1.0	29.4	10.9	20.0	22.3	4.2
7.00	18.7	-48.4	-13.7	-15.3	16.0	1.0	29.6	10.9	20.0	22.2	4.1
7.50	18.8	-46.8	-14.6	-14.2	13.2	1.0	29.6	10.8	20.0	22.0	4.2
8.00	18.9	-46.8	-14.9	-12.6	12.9	1.0	28.7	9.8	20.0	21.8	4.3
8.50	19.0	-46.0	-14.4	-12.0	11.5	1.0	28.7	9.7	20.0	21.5	4.3
9.00	19.2	-45.1	-13.3	-11.5	10.1	1.0	29.5	10.3	20.0	21.5	4.3
9.50	19.5	-44.8	-12.5	-10.9	9.2	1.0	29.7	10.2	20.1	21.5	4.5
10.00	19.4	-43.8	-12.2	-20.7	8.9	1.0	29.7	10.3	19.9	21.2	4.1
10.50	19.3	-42.9	-12.2	-21.0	8.2	1.1	30.2	10.9	19.8	20.9	3.9
11.00	19.4	-41.9	-12.8	-19.2	7.3	1.0	29.7	10.3	19.7	20.9	3.9
11.50	19.5	-40.9	-14.1	-18.3	6.6	1.0	28.7	9.1	19.6	20.7	3.9
12.00	19.7	-40.1	-16.3	-18.4	6.0	1.0	28.7	9.0	19.4	20.5	4.1
12.50	19.7	-39.4	-18.9	-19.8	5.7	1.0	28.2	8.4	19.1	20.1	4.2
13.00	19.7	-38.6	-18.8	-24.0	5.2	1.0	28.1	8.4	18.6	19.8	4.4
13.50	19.4	-37.9	-15.3	-37.6	4.9	1.0	27.2	7.7	18.1	19.7	4.5
14.00	19.0	-37.4	-12.5	-27.5	4.8	1.0	28.4	9.4	18.0	19.7	4.6
14.50	18.6	-36.9	-11.3	-21.0	4.6	1.1	27.5	8.9	17.5	19.5	4.7
15.00	18.3	-36.6	-10.8	-17.3	4.6	1.0	26.4	8.1	17.3	19.5	4.9
15.50	18.1	-36.5	-10.6	-15.3	4.6	1.0	27.7	9.6	17.2	19.2	5.2
16.00	18.0	-36.3	-10.8	-15.1	4.6	1.0	26.6	8.6	16.8	19.0	5.3
16.50	17.8	-35.9	-12.5	-16.7	4.6	1.0	25.9	8.1	16.6	18.6	5.4
17.00	17.7	-35.8	-17.0	-19.1	4.9	1.0	25.5	7.8	16.1	18.4	5.4
17.50	17.3	-35.5	-31.5	-18.3	5.1	1.0	24.1	6.8	15.6	17.8	5.5
18.00	16.6	-35.6	-28.7	-14.7	5.4	1.0	23.4	6.8	14.6	17.2	5.6
18.50	15.7	-36.3	-40.8	-11.5	6.3	0.9	22.7	7.0	13.9	16.3	5.8
19.00	14.7	-36.5	-20.7	-9.4	6.8	0.9	21.3	6.5	13.0	15.8	6.0
19.50	13.8	-37.0	-16.4	-8.5	7.8	0.9	20.7	6.9	12.2	14.9	6.4
20.00	13.1	-37.2	-15.7	-8.9	8.8	0.9	20.2	7.1	11.3	14.5	6.9

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_{CC} = +6 V; V_C = +6 V; V_B = +5.4 V , I_{CC} = 125 mA, I_C = 7.54 mA, I_B = 12.52 mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	IP-3 Input	1dB Comp. Output	3dB Comp. Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
4.00	18.2	-57.2	-6.7	-13.7	36.3	1.2	29.8	11.6	21.0	23.5	7.2
4.50	18.4	-53.7	-8.0	-13.9	25.7	1.1	29.5	11.0	20.8	23.2	6.5
5.00	18.5	-52.7	-9.5	-13.8	23.8	1.1	29.2	10.7	20.5	22.9	5.7
5.50	18.6	-52.1	-10.7	-14.2	23.2	1.0	29.1	10.6	20.4	22.8	5.0
6.00	18.6	-50.1	-11.7	-14.9	18.8	1.0	29.2	10.5	20.4	22.8	4.6
6.50	18.8	-50.2	-12.7	-15.4	19.1	1.0	28.7	9.9	20.4	22.7	4.3
7.00	18.9	-48.7	-13.8	-15.3	16.1	1.0	29.3	10.5	20.5	22.6	4.2
7.50	19.0	-47.2	-14.6	-14.2	13.5	1.0	28.8	9.7	20.4	22.4	4.3
8.00	19.1	-46.8	-14.9	-12.6	12.5	1.0	29.3	10.2	20.4	22.2	4.3
8.50	19.3	-46.0	-14.4	-11.9	11.2	1.0	28.9	9.6	20.4	22.0	4.3
9.00	19.4	-45.3	-13.3	-11.4	10.0	1.0	29.0	9.6	20.4	22.0	4.4
9.50	19.7	-44.8	-12.6	-10.9	8.9	1.0	29.2	9.5	20.5	22.0	4.5
10.00	19.6	-43.9	-12.3	-20.3	8.8	1.0	29.3	9.7	20.3	21.7	4.2
10.50	19.5	-42.9	-12.3	-20.7	8.1	1.0	29.1	9.6	20.2	21.5	4.0
11.00	19.6	-42.3	-12.8	-19.1	7.5	1.0	29.0	9.4	20.1	21.4	3.9
11.50	19.7	-41.2	-14.2	-18.2	6.6	1.0	29.2	9.4	20.0	21.2	3.9
12.00	19.9	-40.1	-16.3	-18.3	5.9	1.0	28.9	9.0	19.7	21.0	4.1
12.50	19.9	-39.7	-18.9	-19.7	5.7	1.0	28.2	8.3	19.4	20.6	4.3
13.00	19.9	-38.6	-18.9	-23.5	5.1	1.0	28.0	8.1	18.8	20.3	4.4
13.50	19.6	-38.2	-15.4	-35.3	5.0	1.0	26.9	7.3	18.3	20.2	4.6
14.00	19.3	-37.9	-12.6	-28.7	4.9	1.0	27.1	7.9	18.0	20.2	4.6
14.50	18.9	-37.3	-11.3	-21.6	4.7	1.1	27.0	8.1	17.6	20.0	4.8
15.00	18.6	-36.8	-10.9	-17.6	4.6	1.0	26.1	7.5	17.3	19.9	5.0
15.50	18.3	-36.5	-10.5	-15.4	4.5	1.0	27.2	8.9	17.2	19.5	5.1
16.00	18.2	-36.4	-10.7	-15.0	4.5	1.0	25.7	7.5	16.8	19.3	5.4
16.50	18.1	-36.2	-12.4	-16.5	4.7	1.0	25.2	7.2	16.6	18.9	5.4
17.00	17.9	-35.9	-16.6	-18.8	4.8	1.0	25.0	7.0	16.0	18.7	5.4
17.50	17.6	-35.8	-30.4	-18.3	5.0	1.0	24.1	6.5	15.5	18.1	5.4
18.00	16.9	-35.8	-27.3	-15.0	5.4	1.0	23.2	6.3	14.4	17.5	5.6
18.50	16.1	-36.2	-37.9	-11.7	5.9	0.9	22.3	6.2	13.8	16.5	5.8
19.00	15.1	-36.7	-21.1	-9.5	6.7	0.9	21.2	6.0	12.9	16.0	6.0
19.50	14.2	-37.1	-16.4	-8.6	7.5	0.9	20.7	6.5	12.2	15.0	6.4
20.00	13.5	-37.3	-15.6	-8.9	8.5	0.9	19.8	6.4	11.2	14.6	6.9

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_{CC} = +6 V; V_C = +6 V; V_B = +5.8 V , I_{CC} = 137 mA, I_C = 7.58 mA, I_B = 13.74 mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	IP-3 Input	1dB Comp. Output	3dB Comp. Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
4.00	18.4	-56.4	-6.7	-13.7	32.5	1.2	29.7	11.3	20.2	23.8	7.3
4.50	18.6	-53.7	-8.0	-13.9	24.8	1.1	29.8	11.2	20.1	23.5	6.6
5.00	18.7	-53.1	-9.5	-13.8	24.2	1.1	29.4	10.7	19.8	23.3	5.9
5.50	18.8	-52.5	-10.7	-14.2	23.6	1.0	29.1	10.3	19.7	23.1	5.1
6.00	18.8	-50.6	-11.7	-14.9	19.4	1.0	29.7	10.9	19.6	23.1	4.7
6.50	18.9	-50.1	-12.7	-15.4	18.4	1.0	29.3	10.3	19.6	23.1	4.4
7.00	19.1	-48.6	-13.8	-15.3	15.7	1.0	29.2	10.1	19.6	23.0	4.3
7.50	19.2	-47.8	-14.6	-14.2	14.1	1.0	29.8	10.6	19.5	22.7	4.3
8.00	19.3	-46.6	-14.9	-12.6	12.1	1.0	29.5	10.2	19.5	22.6	4.4
8.50	19.4	-46.0	-14.4	-11.9	10.9	1.0	28.7	9.3	19.5	22.4	4.4
9.00	19.5	-45.3	-13.3	-11.4	9.8	1.0	28.8	9.2	19.5	22.4	4.4
9.50	19.8	-44.9	-12.5	-10.8	8.9	1.0	29.5	9.7	19.5	22.4	4.6
10.00	19.8	-44.3	-12.3	-20.0	9.2	1.0	29.0	9.2	19.5	22.1	4.2
10.50	19.7	-43.0	-12.3	-20.4	8.0	1.0	29.7	10.0	19.3	21.9	4.0
11.00	19.8	-42.2	-12.8	-18.9	7.3	1.0	28.5	8.8	19.2	21.8	4.0
11.50	19.9	-41.5	-14.2	-18.1	6.8	1.0	28.7	8.9	19.1	21.6	4.0
12.00	20.0	-40.7	-16.3	-18.3	6.2	1.0	27.3	7.3	18.9	21.4	4.1
12.50	20.1	-39.7	-18.8	-19.5	5.6	1.0	28.3	8.2	18.7	21.0	4.3
13.00	20.0	-39.1	-18.8	-23.2	5.3	1.0	27.5	7.5	18.2	20.7	4.4
13.50	19.8	-38.4	-15.5	-33.4	5.0	1.0	26.4	6.6	17.7	20.5	4.6
14.00	19.4	-37.7	-12.7	-30.1	4.7	1.0	27.0	7.6	17.7	20.4	4.7
14.50	19.0	-37.4	-11.4	-22.1	4.7	1.1	26.3	7.3	17.3	20.2	4.8
15.00	18.7	-37.1	-10.9	-17.9	4.6	1.0	25.9	7.2	17.2	20.1	5.0
15.50	18.5	-36.8	-10.5	-15.5	4.6	1.0	26.3	7.8	17.1	19.7	5.2
16.00	18.3	-36.7	-10.7	-15.0	4.6	1.0	25.3	6.9	16.7	19.4	5.4
16.50	18.2	-36.5	-12.2	-16.4	4.7	1.0	25.4	7.2	16.5	19.0	5.4
17.00	18.1	-36.0	-16.3	-18.6	4.8	1.0	24.1	6.0	15.9	18.8	5.4
17.50	17.8	-36.0	-29.2	-18.4	5.0	1.0	23.7	5.9	15.4	18.1	5.5
18.00	17.2	-36.0	-26.5	-15.1	5.3	1.0	22.8	5.7	14.5	17.5	5.6
18.50	16.4	-36.2	-34.9	-12.0	5.8	0.9	21.8	5.5	13.9	16.6	5.8
19.00	15.4	-36.9	-21.6	-9.7	6.7	0.9	20.8	5.4	12.9	16.0	6.0
19.50	14.5	-37.1	-16.5	-8.7	7.3	0.9	20.4	5.9	12.0	15.1	6.4
20.00	13.8	-37.3	-15.6	-8.9	8.2	0.9	19.6	5.9	11.2	14.6	6.8

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_{CC} = +6 V; V_C = +6 V; V_B = +5 V , I_{CC} = 109 mA, I_C = 7.39 mA, I_B = 11.10 mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	IP-3 Input	1dB Comp. Output	3dB Comp. Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
4.00	18.9	-57.6	-6.6	-13.9	34.6	1.2	30.3	11.5	20.7	23.3	6.1
4.50	19.1	-53.1	-7.9	-14.1	21.5	1.1	30.0	10.8	20.6	22.8	5.4
5.00	19.2	-52.8	-9.2	-13.7	21.9	1.1	30.5	11.3	20.2	22.5	4.7
5.50	19.3	-51.3	-10.5	-14.0	19.1	1.0	30.1	10.9	20.1	22.4	4.0
6.00	19.3	-50.5	-11.5	-14.8	17.8	1.0	29.9	10.6	20.1	22.4	3.6
6.50	19.5	-49.4	-12.6	-15.5	15.7	1.0	29.3	9.9	20.0	22.3	3.3
7.00	19.6	-48.7	-13.7	-15.3	14.5	1.0	29.6	9.9	20.0	22.1	3.2
7.50	19.8	-47.3	-14.6	-14.1	12.3	1.0	29.8	10.0	20.0	21.9	3.2
8.00	19.9	-46.6	-15.3	-12.6	11.0	1.0	29.8	9.9	19.9	21.7	3.3
8.50	20.1	-45.9	-14.9	-11.7	9.9	1.0	29.2	9.1	20.0	21.5	3.4
9.00	20.2	-44.8	-13.6	-11.6	8.4	1.0	31.1	11.0	20.0	21.4	3.3
9.50	20.5	-44.3	-12.2	-10.7	7.5	1.0	29.4	8.9	20.1	21.4	3.5
10.00	20.4	-44.4	-11.4	-20.4	8.3	1.1	30.0	9.7	20.0	21.2	3.3
10.50	20.3	-43.0	-11.2	-21.6	7.2	1.1	30.5	10.3	20.0	21.1	3.0
11.00	20.4	-42.0	-12.1	-19.0	6.4	1.0	30.4	10.0	20.0	21.1	2.9
11.50	20.5	-41.2	-14.2	-17.8	5.9	1.0	30.0	9.5	19.7	20.6	2.9
12.00	20.6	-40.4	-16.8	-18.0	5.5	1.0	29.5	8.8	19.3	20.4	3.0
12.50	20.7	-39.8	-20.3	-19.0	5.1	1.0	28.9	8.1	19.1	20.0	3.1
13.00	20.7	-38.8	-20.2	-22.5	4.7	1.0	28.4	7.7	18.8	19.8	3.3
13.50	20.4	-38.1	-15.1	-34.8	4.4	1.0	28.4	8.0	18.3	19.6	3.4
14.00	19.9	-37.8	-11.8	-28.1	4.3	1.1	28.9	8.9	18.3	19.7	3.6
14.50	19.5	-37.2	-10.5	-20.9	4.1	1.1	28.6	9.1	17.9	19.7	3.7
15.00	19.2	-37.0	-9.8	-17.1	4.1	1.1	27.2	8.0	17.7	19.7	3.8
15.50	19.0	-36.5	-9.6	-15.4	4.0	1.1	28.8	9.9	17.8	19.6	4.0
16.00	18.8	-36.4	-10.1	-15.2	4.0	1.0	28.0	9.2	17.4	19.3	4.1
16.50	18.7	-36.2	-11.7	-16.4	4.2	1.0	28.3	9.6	17.3	19.1	4.1
17.00	18.5	-36.0	-15.0	-18.6	4.3	1.0	26.7	8.2	16.8	18.8	4.1
17.50	18.2	-35.9	-23.4	-18.9	4.6	1.0	26.7	8.4	16.4	18.2	4.2
18.00	17.7	-35.8	-24.4	-15.5	4.8	1.0	25.1	7.4	15.5	17.8	4.3
18.50	16.9	-36.1	-27.9	-12.1	5.2	0.9	24.0	7.1	14.9	17.1	4.5
19.00	15.9	-36.8	-22.0	-9.4	6.0	0.9	22.7	6.9	14.0	16.5	4.7
19.50	15.0	-37.1	-16.2	-8.2	6.6	0.9	22.0	7.0	13.2	15.5	4.9
20.00	14.4	-37.2	-15.6	-8.7	7.3	0.9	21.5	7.1	12.0	15.1	5.2

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_{CC} = +6 V; V_C = +6 V; V_B = +5.4 V , I_{CC} = 121 mA, I_C = 7.43 mA, I_B = 12.38 mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	IP-3 Input	1dB Comp. Output	3dB Comp. Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
4.00	19.4	-57.3	-6.4	-13.9	31.1	1.2	30.4	11.1	21.0	23.6	6.2
4.50	19.6	-53.3	-7.7	-14.1	20.6	1.1	29.9	10.3	20.9	23.2	5.5
5.00	19.7	-53.8	-9.0	-13.8	22.9	1.1	30.1	10.4	20.6	22.9	4.8
5.50	19.8	-52.0	-10.3	-14.1	19.3	1.0	30.0	10.3	20.5	22.8	4.1
6.00	19.8	-51.4	-11.4	-14.8	18.5	1.0	29.7	9.9	20.5	22.8	3.6
6.50	20.0	-48.8	-12.4	-15.5	13.9	1.0	28.9	9.0	20.4	22.7	3.4
7.00	20.1	-48.2	-13.5	-15.3	13.0	1.0	29.9	9.8	20.5	22.6	3.2
7.50	20.2	-47.5	-14.5	-14.1	11.9	1.0	30.2	9.9	20.5	22.4	3.3
8.00	20.4	-46.9	-15.1	-12.5	10.9	1.0	29.1	8.8	20.4	22.2	3.3
8.50	20.5	-46.0	-14.6	-11.7	9.5	1.0	29.0	8.5	20.4	22.0	3.4
9.00	20.6	-45.3	-13.5	-11.5	8.6	1.0	30.6	10.0	20.4	21.9	3.4
9.50	20.9	-45.0	-12.1	-10.6	7.7	1.0	29.4	8.5	20.6	22.0	3.5
10.00	20.8	-44.4	-11.2	-20.2	7.9	1.1	29.8	9.0	20.5	21.8	3.2
10.50	20.6	-43.1	-11.1	-21.3	6.9	1.1	30.2	9.5	20.5	21.7	3.0
11.00	20.7	-42.5	-12.0	-18.8	6.5	1.0	29.8	9.1	20.4	21.7	2.9
11.50	20.9	-41.5	-13.9	-17.7	5.8	1.0	29.0	8.2	20.2	21.2	2.9
12.00	21.0	-40.7	-16.7	-17.8	5.4	1.0	29.6	8.6	19.7	20.9	3.0
12.50	21.1	-39.8	-20.1	-18.9	4.9	1.0	29.5	8.4	19.5	20.5	3.2
13.00	21.0	-39.0	-20.0	-22.3	4.6	1.0	28.4	7.4	19.0	20.3	3.3
13.50	20.8	-38.5	-14.9	-32.9	4.4	1.0	27.6	6.9	18.5	20.1	3.4
14.00	20.3	-37.7	-11.8	-29.5	4.1	1.1	28.9	8.6	18.5	20.2	3.6
14.50	19.9	-37.3	-10.3	-21.4	4.0	1.1	28.5	8.6	18.1	20.2	3.7
15.00	19.5	-37.0	-9.6	-17.3	4.0	1.1	26.6	7.0	17.8	20.2	3.8
15.50	19.3	-36.8	-9.5	-15.5	3.9	1.1	28.3	9.0	17.9	20.0	4.0
16.00	19.2	-36.6	-9.9	-15.2	4.0	1.0	27.5	8.3	17.4	19.7	4.1
16.50	19.0	-36.4	-11.4	-16.2	4.1	1.0	28.2	9.2	17.3	19.5	4.2
17.00	18.9	-36.2	-14.7	-18.4	4.2	1.0	26.3	7.4	16.9	19.2	4.2
17.50	18.6	-36.0	-22.3	-18.9	4.4	1.0	26.1	7.5	16.4	18.6	4.2
18.00	18.1	-36.1	-23.6	-15.7	4.7	1.0	24.9	6.9	15.5	18.1	4.3
18.50	17.3	-36.3	-25.7	-12.3	5.1	0.9	23.9	6.6	14.9	17.4	4.4
19.00	16.4	-36.7	-22.8	-9.5	5.6	0.9	22.9	6.5	14.0	16.7	4.7
19.50	15.5	-37.3	-16.0	-8.3	6.4	0.9	22.0	6.6	13.3	15.8	5.0
20.00	14.9	-37.2	-15.5	-8.8	6.9	0.9	21.2	6.4	12.2	15.3	5.2

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_{CC} = +6 V; V_C = +6 V; V_B = +5.8 V , I_{CC} = 133 mA, I_C = 7.47 mA, I_B = 13.58 mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	IP-3 Input	1dB Comp. Output	3dB Comp. Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
4.00	19.5	-56.0	-6.5	-13.9	26.5	1.2	30.9	11.4	20.4	23.9	6.3
4.50	19.7	-53.5	-7.9	-14.1	21.2	1.1	29.9	10.1	20.2	23.5	5.6
5.00	19.8	-52.9	-9.2	-13.8	20.5	1.1	30.2	10.4	19.8	23.2	4.9
5.50	19.8	-53.1	-10.4	-14.1	21.7	1.0	29.4	9.5	19.7	23.1	4.2
6.00	19.9	-50.4	-11.5	-14.8	16.4	1.0	30.4	10.4	19.6	23.2	3.8
6.50	20.0	-48.8	-12.6	-15.5	13.9	1.0	29.3	9.3	19.5	23.1	3.4
7.00	20.2	-49.2	-13.6	-15.3	14.4	1.0	30.6	10.4	19.5	23.0	3.3
7.50	20.3	-48.1	-14.6	-14.1	12.7	1.0	30.2	9.9	19.5	22.8	3.3
8.00	20.4	-46.4	-15.2	-12.6	10.2	1.0	30.7	10.2	19.3	22.6	3.4
8.50	20.6	-46.0	-14.8	-11.6	9.5	1.0	28.4	7.9	19.4	22.5	3.4
9.00	20.7	-45.5	-13.5	-11.5	8.6	1.0	30.4	9.7	19.4	22.4	3.4
9.50	21.0	-45.1	-12.2	-10.6	7.8	1.0	29.9	9.0	19.5	22.4	3.5
10.00	20.9	-45.0	-11.3	-19.9	8.4	1.1	30.1	9.2	19.4	22.2	3.3
10.50	20.7	-43.4	-11.2	-21.0	7.1	1.1	30.1	9.3	19.5	22.1	3.0
11.00	20.8	-42.3	-12.0	-18.7	6.3	1.0	29.7	8.9	19.4	22.1	3.0
11.50	21.0	-41.5	-14.1	-17.6	5.8	1.0	29.2	8.3	19.1	21.7	2.9
12.00	21.1	-40.9	-16.7	-17.8	5.5	1.0	29.4	8.3	18.7	21.4	3.0
12.50	21.2	-39.9	-20.1	-18.8	5.0	1.0	29.0	7.8	18.6	20.9	3.2
13.00	21.1	-39.3	-20.2	-21.9	4.7	1.0	28.6	7.5	18.3	20.7	3.3
13.50	20.8	-38.4	-15.2	-31.5	4.3	1.0	27.6	6.8	17.8	20.5	3.5
14.00	20.4	-37.9	-11.9	-30.9	4.2	1.0	28.4	8.0	17.9	20.5	3.6
14.50	20.0	-37.5	-10.5	-21.9	4.1	1.1	28.2	8.2	17.6	20.6	3.8
15.00	19.6	-37.4	-9.7	-17.6	4.1	1.1	26.3	6.6	17.5	20.5	3.9
15.50	19.4	-36.9	-9.5	-15.7	4.0	1.1	27.5	8.1	17.5	20.2	4.0
16.00	19.3	-36.8	-9.9	-15.3	4.0	1.0	27.8	8.5	17.2	19.9	4.1
16.50	19.1	-36.7	-11.4	-16.1	4.1	1.0	27.5	8.4	17.0	19.7	4.2
17.00	19.0	-36.5	-14.4	-18.2	4.3	1.0	26.1	7.1	16.6	19.4	4.2
17.50	18.7	-36.1	-21.7	-18.8	4.4	1.0	25.1	6.3	16.1	18.8	4.2
18.00	18.2	-36.3	-22.6	-15.8	4.8	1.0	24.5	6.3	15.3	18.3	4.3
18.50	17.5	-36.2	-24.8	-12.5	5.0	0.9	23.8	6.3	14.7	17.5	4.5
19.00	16.6	-36.8	-23.5	-9.7	5.6	0.9	22.2	5.7	13.7	16.8	4.8
19.50	15.7	-37.4	-16.2	-8.4	6.4	0.9	22.0	6.4	12.9	15.8	4.9
20.00	15.1	-37.5	-15.4	-8.8	7.0	0.9	21.3	6.2	11.8	15.3	5.2

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_{CC} = +6 V; V_C = +6 V; V_B = +5 V , I_{CC} = 116 mA, I_C = 7.58 mA, I_B = 11.41 mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	IP-3 Input	1dB Comp. Output	3dB Comp. Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
4.00	16.9	-56.1	-6.7	-13.7	37.6	1.2	30.4	13.5	20.6	23.2	7.8
4.50	17.1	-54.8	-8.1	-13.7	33.8	1.1	28.5	11.4	20.4	22.7	7.0
5.00	17.2	-52.4	-9.5	-13.4	26.9	1.1	29.0	11.7	20.1	22.5	6.2
5.50	17.3	-51.2	-10.8	-14.1	24.2	1.0	28.9	11.6	20.0	22.4	5.5
6.00	17.4	-50.1	-11.9	-14.8	21.8	1.0	28.5	11.2	20.0	22.4	5.1
6.50	17.5	-48.9	-12.7	-15.2	19.3	1.0	27.9	10.4	20.0	22.2	4.9
7.00	17.6	-48.5	-13.5	-15.2	18.3	1.0	29.0	11.4	20.0	22.1	4.9
7.50	17.7	-47.4	-14.1	-14.3	16.0	1.0	28.8	11.1	20.1	21.9	4.9
8.00	17.9	-46.3	-14.3	-12.8	13.8	1.0	28.3	10.4	19.9	21.7	5.0
8.50	18.0	-45.7	-14.0	-12.1	12.6	1.0	27.6	9.6	20.0	21.5	5.1
9.00	18.1	-44.5	-13.3	-11.7	10.7	1.0	28.2	10.1	20.0	21.4	5.1
9.50	18.5	-44.9	-12.7	-11.5	10.7	1.0	28.8	10.3	20.1	21.3	5.3
10.00	18.3	-43.6	-12.5	-20.6	10.1	1.0	28.8	10.5	19.9	21.1	4.9
10.50	18.3	-42.5	-12.7	-20.7	9.0	1.0	28.3	10.0	19.9	21.0	4.7
11.00	18.4	-41.3	-13.3	-19.5	7.9	1.0	28.1	9.8	19.9	21.0	4.8
11.50	18.5	-40.6	-14.8	-19.0	7.2	1.0	28.5	10.0	19.7	20.7	4.8
12.00	18.6	-39.7	-16.7	-19.5	6.6	1.0	27.9	9.3	19.2	20.4	5.0
12.50	18.6	-39.1	-18.0	-21.0	6.3	1.0	27.2	8.5	18.9	19.9	5.2
13.00	18.5	-38.3	-17.3	-24.7	5.8	1.0	26.4	7.9	18.2	19.7	5.3
13.50	18.3	-37.6	-14.6	-39.8	5.5	1.0	26.4	8.1	17.8	19.5	5.5
14.00	17.9	-37.0	-12.4	-24.9	5.2	1.0	27.2	9.3	17.3	19.4	5.7
14.50	17.6	-36.6	-11.7	-20.7	5.2	1.0	26.1	8.6	17.0	19.3	5.8
15.00	17.3	-36.3	-11.7	-17.4	5.1	1.0	26.2	8.9	16.7	19.1	6.0
15.50	17.1	-36.1	-11.5	-15.3	5.1	1.0	25.6	8.5	16.4	18.7	6.1
16.00	16.9	-35.9	-11.8	-15.2	5.1	1.0	25.0	8.0	16.0	18.4	6.3
16.50	16.8	-35.6	-14.2	-17.2	5.2	1.0	24.8	8.0	15.7	18.1	6.5
17.00	16.5	-35.2	-19.2	-19.7	5.4	1.0	23.5	6.9	15.0	17.7	6.6
17.50	16.0	-35.4	-30.6	-18.1	5.8	1.0	23.1	7.1	14.4	17.0	6.8
18.00	15.2	-35.6	-33.8	-13.9	6.4	1.0	22.2	7.0	13.4	16.4	7.0
18.50	14.2	-36.1	-28.5	-10.7	7.3	0.9	21.4	7.2	12.8	15.6	7.3
19.00	13.1	-36.4	-19.0	-9.1	8.2	0.9	19.8	6.7	11.8	14.9	7.5
19.50	12.2	-37.1	-16.5	-8.8	9.7	0.9	19.2	7.0	11.0	14.1	7.9
20.00	11.4	-37.1	-15.7	-9.5	10.8	0.9	19.2	7.8	10.3	13.5	8.4

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_{CC} = +6 V; V_C = +6 V; V_B = +5.4 V , I_{CC} = 129 mA, I_C = 7.63 mA, I_B = 12.90 mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	IP-3 Input	1dB Comp. Output	3dB Comp. Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
4.00	17.1	-56.5	-6.8	-13.7	38.3	1.2	28.5	11.4	21.0	23.5	7.9
4.50	17.3	-54.7	-8.1	-13.7	32.5	1.1	29.4	12.1	20.8	23.0	7.1
5.00	17.4	-52.4	-9.5	-13.5	26.2	1.1	29.1	11.7	20.5	22.8	6.4
5.50	17.5	-51.9	-10.8	-14.1	25.6	1.0	28.9	11.4	20.4	22.7	5.7
6.00	17.6	-50.1	-11.9	-14.8	21.4	1.0	28.8	11.2	20.5	22.7	5.2
6.50	17.7	-49.1	-12.7	-15.2	19.1	1.0	27.9	10.2	20.4	22.6	4.9
7.00	17.8	-48.5	-13.5	-15.2	17.9	1.0	28.6	10.8	20.4	22.5	5.0
7.50	17.9	-47.2	-14.1	-14.3	15.3	1.0	28.1	10.2	20.5	22.3	5.0
8.00	18.0	-46.0	-14.3	-12.8	13.1	1.0	28.5	10.5	20.4	22.1	5.1
8.50	18.1	-45.3	-14.0	-12.0	11.8	1.0	27.4	9.3	20.4	21.9	5.1
9.00	18.3	-45.2	-13.3	-11.6	11.4	1.0	28.9	10.7	20.4	21.9	5.1
9.50	18.6	-44.8	-12.7	-11.4	10.4	1.0	28.3	9.6	20.4	21.8	5.4
10.00	18.5	-43.8	-12.5	-20.3	10.2	1.0	28.7	10.3	20.2	21.6	4.9
10.50	18.4	-42.4	-12.7	-20.5	8.7	1.0	28.4	9.9	20.3	21.5	4.8
11.00	18.5	-41.7	-13.3	-19.4	8.0	1.0	27.7	9.2	20.2	21.5	4.8
11.50	18.7	-40.6	-14.8	-18.9	7.2	1.0	27.5	8.8	20.0	21.1	4.9
12.00	18.8	-39.8	-16.7	-19.4	6.6	1.0	27.2	8.4	19.4	20.8	5.1
12.50	18.8	-39.2	-17.9	-20.8	6.2	1.0	26.9	8.1	19.1	20.4	5.2
13.00	18.7	-38.6	-17.3	-24.3	5.9	1.0	26.0	7.3	18.4	20.1	5.4
13.50	18.5	-37.8	-14.7	-40.1	5.5	1.0	25.6	7.2	17.9	19.9	5.6
14.00	18.1	-37.3	-12.5	-25.7	5.3	1.0	26.2	8.1	17.4	19.8	5.7
14.50	17.8	-36.8	-11.8	-21.2	5.2	1.0	25.6	7.8	17.1	19.7	5.9
15.00	17.5	-36.5	-11.7	-17.6	5.1	1.0	25.8	8.3	16.7	19.4	6.0
15.50	17.3	-36.2	-11.4	-15.3	5.1	1.0	24.8	7.5	16.4	19.0	6.2
16.00	17.1	-36.1	-11.7	-15.2	5.1	1.0	24.6	7.5	16.0	18.7	6.4
16.50	17.0	-35.6	-14.0	-17.1	5.1	1.0	24.7	7.7	15.6	18.3	6.6
17.00	16.8	-35.5	-18.9	-19.7	5.4	1.0	22.8	6.1	14.9	17.9	6.6
17.50	16.3	-35.3	-31.8	-18.3	5.6	1.0	22.5	6.2	14.4	17.1	6.8
18.00	15.5	-35.7	-33.9	-14.1	6.3	1.0	21.9	6.4	13.2	16.5	7.0
18.50	14.5	-36.2	-29.7	-10.9	7.1	0.9	20.7	6.2	12.7	15.7	7.3
19.00	13.5	-36.8	-19.2	-9.2	8.2	0.9	19.7	6.2	11.7	15.0	7.6
19.50	12.6	-37.0	-16.5	-8.8	9.3	0.9	19.1	6.5	11.1	14.2	7.9
20.00	11.8	-37.3	-15.8	-9.4	10.5	0.9	19.2	7.4	10.2	13.6	8.4

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_{CC} = +6 V; V_C = +6 V; V_B = +5.8 V , I_{CC} = 141 mA, I_C = 7.69 mA, I_B = 14.15 mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	IP-3 Input	1dB Comp. Output	3dB Comp. Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
4.00	17.2	-57.3	-6.8	-13.7	41.5	1.2	29.5	12.2	20.2	23.7	8.0
4.50	17.5	-53.4	-8.1	-13.7	27.7	1.1	28.7	11.2	20.0	23.3	7.2
5.00	17.6	-52.2	-9.5	-13.5	25.0	1.1	29.2	11.7	19.7	23.1	6.4
5.50	17.6	-52.2	-10.8	-14.1	26.1	1.0	29.2	11.5	19.6	23.0	5.8
6.00	17.7	-50.5	-11.9	-14.8	22.0	1.0	29.7	12.1	19.5	23.1	5.2
6.50	17.8	-49.6	-12.7	-15.2	20.0	1.0	28.1	10.3	19.5	22.9	5.1
7.00	17.9	-48.4	-13.5	-15.2	17.6	1.0	28.8	10.8	19.5	22.8	5.0
7.50	18.0	-47.0	-14.0	-14.3	14.8	1.0	28.7	10.7	19.5	22.6	5.1
8.00	18.1	-47.3	-14.2	-12.8	15.0	1.0	28.8	10.7	19.5	22.4	5.1
8.50	18.2	-46.1	-13.9	-12.0	12.7	1.0	27.8	9.5	19.5	22.3	5.2
9.00	18.4	-44.9	-13.3	-11.6	10.8	1.0	28.7	10.4	19.5	22.2	5.2
9.50	18.7	-44.8	-12.7	-11.4	10.3	1.0	27.8	9.2	19.6	22.2	5.4
10.00	18.6	-43.3	-12.6	-20.1	9.5	1.0	27.9	9.4	19.4	21.9	5.0
10.50	18.5	-42.9	-12.7	-20.3	9.1	1.0	27.9	9.3	19.5	21.9	4.9
11.00	18.6	-41.7	-13.3	-19.3	8.0	1.0	27.1	8.5	19.4	21.9	4.9
11.50	18.7	-41.1	-14.8	-18.8	7.5	1.0	27.5	8.8	19.2	21.5	5.0
12.00	18.8	-40.2	-16.6	-19.4	6.9	1.0	27.2	8.3	18.8	21.2	5.1
12.50	18.9	-39.3	-17.8	-20.7	6.2	1.0	26.7	7.9	18.5	20.7	5.3
13.00	18.8	-38.5	-17.2	-24.0	5.8	1.0	25.9	7.2	17.9	20.4	5.5
13.50	18.5	-37.9	-14.8	-39.5	5.5	1.0	25.4	6.8	17.5	20.1	5.6
14.00	18.2	-37.5	-12.6	-26.4	5.4	1.0	25.7	7.5	17.2	19.9	5.8
14.50	17.8	-37.0	-11.8	-21.6	5.2	1.0	25.2	7.4	16.8	19.8	5.9
15.00	17.6	-36.6	-11.7	-17.9	5.2	1.0	25.3	7.7	16.6	19.5	6.1
15.50	17.4	-36.4	-11.4	-15.4	5.1	1.0	24.3	6.9	16.3	19.1	6.3
16.00	17.2	-36.1	-11.6	-15.1	5.1	1.0	23.8	6.6	16.0	18.8	6.4
16.50	17.1	-35.9	-13.8	-17.0	5.2	1.0	24.1	7.0	15.6	18.4	6.6
17.00	16.9	-35.7	-18.7	-19.5	5.4	1.0	22.5	5.6	14.9	18.0	6.7
17.50	16.4	-35.7	-32.3	-18.4	5.8	1.0	22.3	5.9	14.4	17.2	6.9
18.00	15.7	-35.9	-33.8	-14.3	6.3	1.0	21.3	5.6	13.4	16.5	7.1
18.50	14.7	-36.2	-31.1	-11.1	7.0	0.9	20.6	5.8	12.8	15.6	7.3
19.00	13.7	-36.7	-19.4	-9.3	8.0	0.9	19.4	5.7	11.8	15.0	7.6
19.50	12.8	-37.1	-16.5	-8.8	9.1	0.9	18.8	6.0	10.9	14.2	7.9
20.00	12.0	-37.1	-15.8	-9.4	10.1	0.9	18.8	6.7	10.3	13.6	8.4

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_{CC} = +6 V; V_C = +6 V; V_B = +5 V , I_{CC} = 117 mA, I_C = 7.61 mA, I_B = 11.52 mA @ Temperature = +105°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	IP-3 Input	1dB Comp. Output	3dB Comp. Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
4.00	15.9	-57.3	-7.4	-13.6	49.6	1.1	29.2	13.3	20.8	23.1	8.1
4.50	16.3	-53.0	-8.6	-13.6	31.1	1.1	28.6	12.3	20.5	22.7	7.2
5.00	16.4	-52.0	-10.0	-13.4	28.3	1.0	29.2	12.8	20.2	22.5	6.5
5.50	16.6	-50.7	-11.2	-14.2	25.1	1.0	28.1	11.6	20.1	22.3	5.8
6.00	16.6	-49.7	-12.2	-14.9	22.7	1.0	28.5	11.8	20.1	22.3	5.4
6.50	16.8	-48.9	-13.1	-15.3	21.1	1.0	27.6	10.9	20.0	22.2	5.2
7.00	16.9	-48.1	-13.8	-15.3	19.1	1.0	28.7	11.8	20.1	22.0	5.2
7.50	17.0	-47.0	-14.2	-14.4	16.6	1.0	29.3	12.3	20.1	21.8	5.2
8.00	17.1	-46.3	-14.5	-12.8	15.1	1.0	28.2	11.1	20.0	21.6	5.3
8.50	17.2	-45.6	-14.3	-12.1	13.7	1.0	28.3	11.1	20.0	21.5	5.4
9.00	17.4	-44.8	-13.5	-11.7	12.0	1.0	29.3	11.8	20.0	21.4	5.4
9.50	17.8	-44.4	-13.0	-11.7	11.0	1.0	28.0	10.3	20.1	21.3	5.6
10.00	17.7	-42.9	-13.1	-20.3	10.2	1.0	28.2	10.6	19.9	21.1	5.2
10.50	17.7	-42.4	-13.2	-20.1	9.6	1.0	28.2	10.6	19.9	21.0	5.1
11.00	17.8	-41.3	-13.6	-19.4	8.4	1.0	27.9	10.2	19.8	21.0	5.1
11.50	17.9	-40.4	-15.2	-19.3	7.7	1.0	27.8	9.9	19.6	20.6	5.2
12.00	17.9	-39.8	-16.7	-19.8	7.2	1.0	28.2	10.2	19.1	20.3	5.4
12.50	18.0	-39.0	-17.8	-21.1	6.7	1.0	26.9	8.9	18.7	19.8	5.5
13.00	17.9	-38.2	-17.5	-25.0	6.2	1.0	25.9	8.0	18.1	19.6	5.8
13.50	17.6	-37.5	-14.9	-38.1	5.8	1.0	26.3	8.6	17.6	19.4	6.0
14.00	17.3	-37.1	-12.7	-24.7	5.7	1.0	26.5	9.2	17.1	19.3	6.0
14.50	17.0	-36.5	-12.2	-20.5	5.5	1.0	25.7	8.7	16.8	19.2	6.2
15.00	16.7	-36.3	-12.2	-17.2	5.5	1.0	25.7	9.0	16.5	18.9	6.4
15.50	16.5	-36.0	-11.9	-15.2	5.4	1.0	25.0	8.5	16.1	18.5	6.6
16.00	16.3	-35.7	-12.5	-15.1	5.4	1.0	24.6	8.3	15.7	18.2	6.8
16.50	16.1	-35.4	-14.8	-17.2	5.5	1.0	23.9	7.8	15.4	17.8	7.0
17.00	15.8	-35.4	-19.7	-19.5	5.9	1.0	23.3	7.5	14.6	17.4	7.1
17.50	15.3	-35.4	-29.5	-17.7	6.4	1.0	22.2	6.9	14.1	16.6	7.3
18.00	14.4	-35.7	-34.9	-13.6	7.1	1.0	21.7	7.3	13.0	16.0	7.6
18.50	13.4	-36.1	-26.0	-10.6	8.0	0.9	20.8	7.4	12.5	15.2	7.7
19.00	12.3	-36.6	-18.7	-9.0	9.2	0.9	19.5	7.2	11.5	14.5	8.1
19.50	11.4	-37.0	-16.7	-8.8	10.6	0.9	18.9	7.5	10.7	13.7	8.5
20.00	10.6	-37.3	-15.8	-9.6	12.2	0.9	18.8	8.2	9.9	13.1	9.0

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_{CC} = +6 V; V_C = +6 V; V_B = +5.4 V , I_{CC} = 130 mA, I_C = 7.67 mA, I_B = 12.91 mA @ Temperature = +105°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	IP-3 Input	1dB Comp. Output	3dB Comp. Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
4.00	16.5	-57.5	-6.9	-13.7	46.2	1.2	28.9	12.3	21.2	23.5	8.1
4.50	16.8	-53.7	-8.2	-13.6	31.1	1.1	28.9	12.1	20.9	23.0	7.4
5.00	16.9	-52.9	-9.7	-13.4	29.8	1.1	29.6	12.8	20.6	22.8	6.6
5.50	16.9	-50.8	-11.0	-14.2	24.3	1.0	29.1	12.2	20.5	22.7	5.9
6.00	17.0	-50.2	-12.0	-14.9	23.3	1.0	28.5	11.5	20.6	22.7	5.5
6.50	17.1	-49.0	-12.8	-15.3	20.2	1.0	27.4	10.3	20.5	22.6	5.3
7.00	17.2	-48.0	-13.5	-15.3	18.2	1.0	28.4	11.1	20.5	22.4	5.3
7.50	17.4	-47.5	-14.0	-14.4	17.0	1.0	29.2	11.9	20.6	22.2	5.3
8.00	17.4	-46.5	-14.2	-12.8	14.8	1.0	28.4	11.0	20.4	22.0	5.4
8.50	17.5	-45.8	-13.9	-12.1	13.4	1.0	27.7	10.1	20.5	21.9	5.5
9.00	17.7	-44.7	-13.3	-11.7	11.6	1.0	28.5	10.8	20.4	21.8	5.5
9.50	18.0	-44.5	-12.8	-11.7	10.8	1.0	28.3	10.3	20.5	21.7	5.7
10.00	17.9	-43.1	-12.8	-20.3	10.1	1.0	27.6	9.7	20.2	21.5	5.3
10.50	17.9	-42.1	-13.1	-20.2	9.1	1.0	28.3	10.4	20.3	21.4	5.2
11.00	17.9	-41.6	-13.6	-19.4	8.6	1.0	27.9	10.0	20.2	21.4	5.2
11.50	18.1	-40.7	-15.0	-19.2	7.7	1.0	27.8	9.7	19.9	21.1	5.3
12.00	18.1	-39.8	-16.6	-19.8	7.1	1.0	27.6	9.5	19.4	20.7	5.5
12.50	18.2	-39.0	-17.7	-21.2	6.5	1.0	26.5	8.3	19.0	20.3	5.7
13.00	18.1	-38.4	-17.1	-24.9	6.2	1.0	25.6	7.6	18.3	20.0	5.8
13.50	17.8	-37.8	-14.7	-38.9	5.9	1.0	25.9	8.1	17.8	19.8	6.0
14.00	17.4	-37.3	-12.7	-25.3	5.7	1.0	25.8	8.3	17.2	19.6	6.1
14.50	17.1	-36.8	-12.2	-20.9	5.6	1.0	25.3	8.2	16.9	19.5	6.3
15.00	16.9	-36.4	-12.1	-17.5	5.5	1.0	25.1	8.3	16.5	19.2	6.5
15.50	16.7	-36.1	-11.9	-15.3	5.4	1.0	24.5	7.8	16.2	18.8	6.7
16.00	16.5	-36.1	-12.3	-15.1	5.5	1.0	24.0	7.6	15.7	18.5	6.8
16.50	16.3	-35.6	-14.6	-17.1	5.5	1.0	23.8	7.4	15.3	18.0	7.0
17.00	16.0	-35.4	-19.6	-19.6	5.8	1.0	22.5	6.5	14.5	17.6	7.2
17.50	15.5	-35.5	-29.9	-17.9	6.3	1.0	21.9	6.4	14.0	16.8	7.3
18.00	14.7	-35.6	-33.8	-13.8	6.9	1.0	21.2	6.6	12.9	16.2	7.6
18.50	13.6	-36.4	-27.5	-10.7	8.1	0.9	20.3	6.7	12.3	15.3	7.8
19.00	12.6	-36.7	-19.0	-9.1	9.1	0.9	19.2	6.6	11.3	14.7	8.1
19.50	11.7	-37.0	-16.5	-8.9	10.3	0.9	18.7	7.0	10.6	13.8	8.5
20.00	10.9	-37.3	-15.7	-9.7	11.9	0.9	18.7	7.8	9.7	13.3	9.0

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_{CC} = +6 V; V_C = +6 V; V_B = +5.8 V , I_{CC} = 142 mA, I_C = 7.73 mA, I_B = 14.26 mA @ Temperature = +105°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	IP-3 Input	1dB Comp. Output	3dB Comp. Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
4.00	16.5	-56.4	-7.1	-13.7	41.7	1.1	29.9	13.5	20.3	23.7	8.3
4.50	16.7	-53.2	-8.3	-13.6	29.8	1.1	28.4	11.7	20.0	23.3	7.5
5.00	16.8	-52.4	-9.8	-13.5	28.2	1.1	30.0	13.2	19.7	23.1	6.7
5.50	16.9	-51.6	-11.1	-14.2	26.5	1.0	29.8	12.9	19.6	23.0	6.0
6.00	17.0	-51.1	-12.1	-14.9	25.7	1.0	29.4	12.4	19.6	23.1	5.5
6.50	17.1	-49.5	-12.9	-15.2	21.6	1.0	28.4	11.3	19.5	22.9	5.4
7.00	17.2	-48.4	-13.6	-15.3	19.0	1.0	29.9	12.6	19.5	22.8	5.3
7.50	17.3	-47.2	-14.0	-14.4	16.4	1.0	28.6	11.2	19.5	22.6	5.4
8.00	17.4	-46.6	-14.2	-12.8	15.0	1.0	28.7	11.3	19.4	22.4	5.5
8.50	17.5	-45.2	-14.0	-12.1	12.7	1.0	28.9	11.4	19.5	22.3	5.6
9.00	17.6	-45.1	-13.3	-11.7	12.2	1.0	28.4	10.8	19.5	22.2	5.6
9.50	18.0	-45.2	-12.9	-11.6	11.8	1.0	27.9	9.9	19.6	22.1	5.7
10.00	17.8	-43.7	-12.9	-20.2	10.9	1.0	27.2	9.4	19.3	21.9	5.3
10.50	17.8	-42.1	-13.1	-20.1	9.1	1.0	27.4	9.6	19.4	21.8	5.3
11.00	17.9	-41.7	-13.6	-19.3	8.7	1.0	27.5	9.6	19.3	21.8	5.3
11.50	18.0	-40.9	-15.2	-19.1	8.0	1.0	27.3	9.3	19.1	21.4	5.4
12.00	18.1	-40.1	-16.6	-19.8	7.4	1.0	26.5	8.5	18.7	21.1	5.6
12.50	18.1	-39.2	-17.6	-21.1	6.7	1.0	25.9	7.8	18.4	20.6	5.7
13.00	18.0	-38.6	-17.1	-24.7	6.4	1.0	25.4	7.4	17.8	20.4	5.9
13.50	17.8	-37.9	-14.8	-39.8	6.0	1.0	25.5	7.7	17.4	20.0	6.1
14.00	17.4	-37.3	-12.7	-25.7	5.8	1.0	25.7	8.3	17.0	19.8	6.3
14.50	17.1	-36.8	-12.2	-21.3	5.6	1.0	25.0	7.9	16.6	19.7	6.4
15.00	16.9	-36.7	-12.2	-17.7	5.7	1.0	24.9	8.0	16.3	19.4	6.5
15.50	16.6	-36.4	-11.9	-15.4	5.6	1.0	23.7	7.0	16.0	18.9	6.7
16.00	16.5	-36.0	-12.3	-15.1	5.5	1.0	23.5	7.0	15.6	18.6	6.9
16.50	16.3	-35.9	-14.5	-17.0	5.7	1.0	24.0	7.6	15.3	18.1	7.1
17.00	16.1	-35.7	-19.4	-19.5	5.9	1.0	22.2	6.1	14.6	17.7	7.2
17.50	15.6	-35.6	-30.6	-18.1	6.4	1.0	21.6	6.0	14.0	16.9	7.4
18.00	14.8	-35.7	-34.4	-14.0	6.9	1.0	21.0	6.2	13.1	16.2	7.7
18.50	13.7	-36.4	-27.9	-10.8	8.0	0.9	20.1	6.4	12.5	15.4	7.9
19.00	12.7	-36.7	-18.9	-9.2	8.9	0.9	18.9	6.2	11.4	14.7	8.3
19.50	11.8	-36.9	-16.5	-8.9	10.1	0.9	18.5	6.7	10.6	13.8	8.6
20.00	11.0	-37.4	-15.7	-9.7	11.8	0.9	18.3	7.3	9.9	13.3	9.1