

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_{DD} = +5 V, I_{DD} = 64 mA, V_{EN} = +5 V @ Temperature = +25°C

FREQ (GHz)	Gain (dB)	Isolation (dB)	Input Return Loss (dB)	Output Return Loss (dB)	Stability		IP-3 Output		1dB Comp. Output (dBm)	Noise Figure (dB)
							P _{OUT} = +5 dBm/Tone (dBm)	P _{OUT} = 0 dBm/Tone (dBm)		
					K	Measure				
4.0	16.7	66.4	2.8	4.5	49.77	0.97	14.3	17.5	8.7	3.0
4.5	19.7	60.7	4.1	7.6	30.16	1.14	21.8	22.0	11.4	1.8
5.0	21.4	57.3	6.4	11.8	24.09	1.14	26.9	25.5	14.0	1.3
5.5	21.5	56.6	9.6	14.0	25.99	1.06	28.2	26.2	15.8	1.2
5.7	21.4	57.1	11.0	14.5	28.72	1.04	28.3	26.5	16.1	1.1
5.9	21.3	57.6	12.7	15.1	32.21	1.02	28.8	26.7	16.2	1.1
6.1	21.2	57.8	14.6	15.8	33.91	1.01	28.9	26.6	16.5	1.1
6.3	21.2	58.9	17.0	16.6	39.79	1.00	28.9	27.5	16.6	1.1
6.5	21.1	59.7	20.0	17.6	44.21	0.99	29.2	27.5	16.6	1.1
6.7	21.1	60.8	23.4	18.8	51.27	0.99	29.7	27.8	16.7	1.1
6.9	21.1	61.2	25.0	20.0	53.57	0.99	29.0	27.5	16.7	1.1
7.1	21.1	62.1	22.5	20.4	59.38	1.00	29.2	27.8	16.8	1.1
7.3	21.1	62.3	20.1	19.6	60.92	1.00	29.3	27.9	16.7	1.1
7.5	21.1	61.1	18.0	17.9	52.62	1.00	29.1	28.1	16.9	1.2
7.7	21.1	60.1	16.5	16.2	46.05	1.00	29.0	27.7	16.9	1.2
7.9	21.1	59.0	15.5	14.8	40.34	0.99	28.9	28.0	17.0	1.2
8.1	21.1	57.5	14.5	13.7	33.41	0.99	29.2	27.7	17.1	1.1
8.3	21.1	56.1	13.9	12.8	27.96	0.99	28.9	28.3	17.2	1.1
8.5	21.1	54.8	13.4	12.3	23.83	0.99	28.2	27.6	17.3	1.1
8.7	21.2	53.8	12.7	12.1	20.75	0.99	29.1	27.7	17.4	1.1
8.9	21.2	52.6	12.3	12.0	17.90	0.99	29.1	27.7	17.5	1.1
9.1	21.3	51.3	11.8	12.1	15.23	1.00	28.4	27.2	17.5	1.1
9.3	21.4	50.0	11.3	12.4	12.99	1.01	29.1	28.3	17.6	1.1
9.5	21.5	48.9	10.8	12.7	11.26	1.02	29.3	28.0	17.6	1.2
9.7	21.6	48.0	10.4	13.2	10.05	1.04	28.7	27.6	17.6	1.1
9.9	21.7	47.2	10.0	13.7	8.98	1.05	28.7	27.2	17.5	1.1
10.1	21.8	46.3	9.6	14.3	8.06	1.07	28.6	27.5	17.5	1.1
10.3	21.8	45.6	9.4	14.7	7.36	1.08	28.9	27.4	17.4	1.1
10.5	21.9	44.9	9.1	15.1	6.72	1.09	28.0	26.5	17.2	1.2
10.7	21.9	44.3	8.9	15.3	6.19	1.09	28.2	26.9	17.2	1.2
10.9	21.9	43.7	8.8	15.3	5.77	1.10	28.4	27.1	17.1	1.2
11.1	21.9	43.1	8.8	15.1	5.39	1.10	27.7	26.2	17.0	1.1
11.3	21.9	42.6	8.8	15.0	5.11	1.10	27.9	26.6	17.0	1.2
11.5	21.8	42.2	8.8	15.0	4.89	1.10	27.6	25.9	16.8	1.1
11.7	21.8	41.8	8.8	15.1	4.72	1.10	27.2	25.8	16.6	1.1
11.9	21.8	41.6	8.7	15.6	4.64	1.10	27.9	26.1	16.6	1.1
12.1	21.7	41.4	8.6	16.3	4.56	1.10	26.6	25.7	16.4	1.2
12.3	21.8	41.3	8.6	17.4	4.53	1.11	26.5	24.8	16.5	1.1
12.5	21.8	41.3	8.5	18.4	4.53	1.12	26.6	25.3	16.7	1.2
12.7	21.9	41.4	8.4	18.8	4.53	1.12	26.4	24.8	16.5	1.2
12.9	22.0	41.5	8.4	18.3	4.55	1.11	26.3	24.8	16.8	1.2
13.1	22.2	41.7	8.4	16.7	4.59	1.10	26.3	24.8	16.9	1.3
13.3	22.3	42.1	8.5	14.8	4.64	1.08	26.3	24.8	17.3	1.3
13.5	22.5	42.5	8.6	12.9	4.77	1.06	26.0	24.0	17.4	1.3
13.7	22.6	43.3	8.9	11.1	5.02	1.02	26.2	24.9	17.3	1.3
13.9	22.7	44.1	9.2	9.4	5.38	0.97	26.1	24.4	17.2	1.3
14.1	22.6	45.1	9.8	8.1	5.83	0.91	26.1	24.8	17.5	1.3
14.3	22.5	46.1	10.5	7.1	6.50	0.86	25.9	24.0	17.9	1.4
14.5	22.2	47.0	11.4	6.4	7.14	0.81	26.1	24.5	17.9	1.3
14.7	22.0	47.6	12.3	6.0	7.83	0.78	26.5	24.9	18.2	1.3
14.9	21.6	47.7	13.5	5.8	8.24	0.76	27.2	25.9	18.5	1.3
15.1	21.2	47.5	14.9	5.6	8.40	0.74	26.6	24.9	18.1	1.5
15.3	20.8	47.1	16.3	5.6	8.43	0.73	26.8	25.5	17.9	1.5
15.5	20.4	46.5	18.0	5.5	8.28	0.72	26.6	24.9	17.4	1.5
16.0	19.2	45.3	23.4	5.5	8.31	0.72	27.2	25.2	17.8	1.6
16.5	18.0	44.3	28.8	5.6	8.65	0.72	27.4	25.7	18.0	1.7
17.0	16.8	43.6	31.6	5.7	9.25	0.73	27.5	25.5	17.4	1.8
17.5	15.6	43.3	24.3	5.3	9.93	0.71	28.1	26.4	17.1	1.9
18.0	14.4	43.0	19.0	4.7	10.18	0.67	27.7	25.0	16.6	2.0

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_{DD} = +4.75 V, I_{DD} = 63 mA, V_{EN} = +5 V @ Temperature = +25°C

FREQ (GHz)	Gain (dB)	Isolation (dB)	Input Return Loss (dB)	Output Return Loss (dB)	Stability		IP-3 Output		1dB Comp. Output (dBm)	Noise Figure (dB)
					K	Measure	P _{OUT} = +5 dBm/Tone (dBm)	P _{OUT} = 0 dBm/Tone (dBm)		
4.0	16.7	70.2	3.1	4.8	100.73	0.99	12.8	17.0	8.0	2.9
4.5	19.5	59.9	4.4	7.8	30.70	1.13	20.4	21.4	11.2	1.8
5.0	21.0	57.5	6.6	12.1	26.84	1.14	26.5	25.0	13.9	1.3
5.5	21.1	56.9	9.5	14.9	29.10	1.07	27.8	26.1	15.6	1.1
5.7	21.0	57.1	10.9	15.3	31.20	1.05	28.1	26.6	15.9	1.0
5.9	20.9	58.0	12.4	15.6	35.96	1.03	28.3	26.9	16.1	1.0
6.1	20.8	59.2	14.1	16.2	43.36	1.01	28.6	27.0	16.3	1.1
6.3	20.8	60.0	16.4	16.7	48.73	1.00	28.9	27.1	16.3	1.1
6.5	20.8	60.1	18.9	17.5	50.76	0.99	28.8	27.3	16.2	1.0
6.7	20.8	60.7	22.1	18.9	53.97	0.99	28.9	27.9	16.3	1.0
6.9	20.8	60.4	24.9	20.3	53.66	0.99	28.3	27.3	16.2	1.1
7.1	20.8	61.8	23.5	21.1	62.94	1.00	28.5	27.6	16.2	1.1
7.3	20.8	60.9	21.1	20.5	55.62	1.00	28.7	27.8	16.1	1.0
7.5	20.8	60.6	18.5	19.1	53.36	1.00	28.6	27.6	16.2	1.1
7.7	20.8	59.6	16.8	17.3	46.35	1.00	28.3	27.4	16.2	1.1
7.9	20.8	58.6	15.7	15.8	40.96	1.00	28.1	27.4	16.2	1.1
8.1	20.8	57.5	14.6	14.8	35.70	1.00	28.0	27.4	16.3	1.1
8.3	20.8	55.7	13.9	13.9	28.48	1.00	28.2	27.3	16.2	1.1
8.5	20.9	54.4	13.5	13.2	23.99	1.00	27.7	27.1	16.3	1.1
8.7	20.9	53.7	12.9	13.0	22.04	1.00	28.2	27.8	16.5	1.1
8.9	21.0	52.0	12.4	12.9	17.70	1.00	28.5	27.8	16.6	1.2
9.1	21.1	51.3	12.1	12.7	16.06	1.01	27.8	27.3	16.8	1.2
9.3	21.2	50.1	11.6	12.9	13.85	1.01	28.1	27.6	16.8	1.2
9.5	21.3	49.2	11.1	13.2	12.30	1.03	28.9	27.4	16.9	1.1
9.7	21.3	48.4	10.7	13.4	11.10	1.04	28.4	27.3	16.9	1.2
9.9	21.4	47.2	10.3	13.7	9.54	1.05	28.2	27.2	16.9	1.2
10.1	21.5	46.2	9.8	14.0	8.37	1.06	28.0	27.5	16.7	1.2
10.3	21.5	45.2	9.6	14.1	7.33	1.07	28.5	27.2	16.7	1.2
10.5	21.6	44.6	9.4	14.6	6.82	1.08	27.6	26.5	16.5	1.2
10.7	21.6	44.0	9.0	15.0	6.33	1.09	27.9	27.2	16.6	1.2
10.9	21.6	43.5	8.9	15.1	5.93	1.09	27.9	27.2	16.5	1.2
11.1	21.6	43.1	8.8	15.4	5.64	1.10	27.3	26.2	16.5	1.2
11.3	21.6	42.5	8.5	16.0	5.29	1.11	27.7	26.6	16.5	1.2
11.5	21.5	42.0	8.3	16.2	5.03	1.12	27.3	25.9	16.4	1.2
11.7	21.4	41.9	8.3	16.6	4.99	1.12	26.8	25.6	16.1	1.2
11.9	21.4	41.5	8.2	17.3	4.82	1.13	27.2	26.5	16.0	1.2
12.1	21.3	41.4	8.2	17.9	4.77	1.13	26.4	25.3	15.8	1.3
12.3	21.4	41.2	8.1	18.6	4.72	1.13	26.1	25.1	16.0	1.3
12.5	21.4	41.1	8.1	19.5	4.66	1.13	26.1	25.1	16.2	1.3
12.7	21.5	41.2	8.2	19.6	4.69	1.13	25.9	24.8	16.0	1.3
12.9	21.6	41.4	8.3	19.1	4.76	1.12	25.9	24.8	16.2	1.3
13.1	21.7	41.7	8.4	17.3	4.85	1.11	25.9	24.8	16.6	1.3
13.3	21.9	42.0	8.5	15.0	4.96	1.09	26.0	24.8	17.1	1.3
13.5	22.0	42.6	8.8	13.2	5.20	1.06	25.6	24.1	17.1	1.3
13.7	22.1	43.3	9.1	11.4	5.48	1.02	25.9	24.8	17.2	1.4
13.9	22.1	43.8	9.5	9.8	5.71	0.97	25.7	24.1	17.2	1.4
14.1	22.0	44.8	10.1	8.6	6.29	0.93	25.8	24.4	17.3	1.4
14.3	21.9	46.0	11.0	7.6	7.17	0.88	25.6	24.1	17.8	1.4
14.5	21.6	46.8	12.3	6.9	7.96	0.83	25.9	24.3	17.9	1.4
14.7	21.3	47.2	13.4	6.4	8.46	0.80	26.2	24.5	18.0	1.4
14.9	21.0	47.2	14.6	6.1	8.75	0.77	26.9	25.7	18.6	1.4
15.1	20.6	47.1	16.6	6.0	8.99	0.76	26.5	25.0	18.3	1.4
15.3	20.2	46.6	18.0	6.0	8.98	0.75	26.9	25.6	18.0	1.4
15.5	19.8	46.0	18.8	6.0	8.81	0.75	26.3	24.8	18.0	1.5
16.0	18.7	44.8	21.3	6.2	8.90	0.76	27.1	25.4	18.0	1.6
16.5	17.5	43.9	23.5	6.2	9.30	0.76	27.5	25.6	17.5	1.7
17.0	16.3	43.4	26.9	6.0	9.94	0.75	27.4	25.4	17.0	1.8
17.5	15.2	43.0	24.3	5.8	10.55	0.74	27.8	26.8	17.2	1.9
18.0	14.2	42.6	19.9	5.6	11.11	0.73	28.0	25.8	16.7	2.0

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_{DD} = +5.25 V, I_{DD} = 65 mA, V_{EN} = +5 V @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output		1dB Comp. Output	Noise Figure
							P _{OUT} = +5	P _{OUT} = 0		
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	dBm/Tone	dBm/Tone	(dBm)	(dB)
4.0	16.7	67.1	3.3	4.7	69.86	0.97	14.5	17.0	8.7	2.9
4.5	19.5	61.2	4.6	7.8	36.04	1.12	21.0	21.3	12.2	1.7
5.0	21.1	58.0	6.7	12.1	28.19	1.13	25.8	25.2	14.9	1.3
5.5	21.2	57.3	9.6	14.8	30.04	1.07	27.4	25.7	16.5	1.1
5.7	21.1	57.3	10.9	15.3	31.88	1.05	27.6	26.4	16.7	1.1
5.9	21.0	58.0	12.4	15.6	36.36	1.03	28.0	26.5	16.9	1.0
6.1	20.9	57.9	14.2	16.1	36.72	1.01	28.3	27.1	17.1	1.1
6.3	20.9	58.0	16.4	16.7	37.81	1.00	28.7	27.1	17.0	1.0
6.5	20.9	59.9	18.9	17.4	47.77	0.99	28.8	27.9	17.0	1.1
6.7	20.9	61.2	22.0	18.7	56.65	0.99	29.0	28.1	17.1	1.0
6.9	20.9	61.3	24.7	20.0	57.48	0.99	28.5	27.2	17.0	1.1
7.1	20.9	62.7	23.3	20.7	67.89	1.00	28.7	27.6	17.0	1.1
7.3	20.9	63.5	21.1	20.1	75.34	1.00	29.0	28.0	16.8	1.1
7.5	20.9	61.0	18.6	18.8	55.53	1.00	28.8	28.0	16.9	1.1
7.7	20.8	59.9	16.9	17.1	48.46	1.00	28.5	27.9	16.9	1.1
7.9	20.8	58.3	15.8	15.6	39.35	1.00	28.4	27.7	16.8	1.1
8.1	20.8	57.2	14.8	14.6	35.17	1.00	28.4	27.4	16.9	1.1
8.3	20.8	56.6	14.1	13.7	31.71	1.00	28.5	28.5	16.7	1.1
8.5	20.9	55.7	13.7	13.1	28.43	0.99	28.1	27.5	16.8	1.1
8.7	20.9	54.5	13.2	12.9	24.16	0.99	28.5	27.9	17.0	1.2
8.9	21.0	52.5	12.6	12.7	18.84	1.00	28.7	28.2	17.0	1.1
9.1	21.1	51.2	12.3	12.6	16.06	1.00	28.1	27.7	17.2	1.2
9.3	21.2	50.4	11.9	12.8	14.49	1.01	28.6	27.7	17.2	1.2
9.5	21.2	49.5	11.3	13.1	12.78	1.02	28.9	28.1	17.3	1.2
9.7	21.3	48.4	11.0	13.2	11.12	1.03	28.4	27.4	17.3	1.2
9.9	21.4	47.3	10.5	13.5	9.71	1.04	28.4	27.3	17.3	1.2
10.1	21.5	46.8	10.1	13.8	9.03	1.05	28.1	27.1	17.1	1.2
10.3	21.5	45.9	9.8	14.0	8.06	1.06	28.5	27.1	17.0	1.2
10.5	21.6	45.2	9.6	14.5	7.36	1.07	27.6	26.4	16.8	1.2
10.7	21.6	44.3	9.2	14.8	6.56	1.08	27.8	27.1	16.9	1.2
10.9	21.6	43.9	9.1	14.9	6.22	1.09	27.9	26.8	16.8	1.2
11.1	21.6	43.3	8.9	15.3	5.82	1.09	27.2	26.7	16.8	1.2
11.3	21.6	42.9	8.6	15.9	5.57	1.11	27.5	26.6	16.7	1.2
11.5	21.5	42.4	8.5	16.1	5.25	1.11	27.3	26.1	16.6	1.2
11.7	21.5	42.1	8.4	16.5	5.14	1.12	26.7	25.5	16.4	1.2
11.9	21.4	41.8	8.3	17.2	4.97	1.12	27.2	26.1	16.3	1.2
12.1	21.4	41.7	8.3	17.8	4.92	1.13	26.3	25.5	16.1	1.2
12.3	21.4	41.5	8.2	18.5	4.86	1.13	26.2	24.7	16.2	1.2
12.5	21.5	41.5	8.2	19.3	4.87	1.13	26.1	25.2	16.5	1.3
12.7	21.6	41.5	8.3	19.3	4.84	1.12	25.9	24.8	16.3	1.3
12.9	21.7	41.7	8.4	18.8	4.91	1.12	25.8	24.7	16.4	1.3
13.1	21.8	41.9	8.4	17.1	4.98	1.10	25.8	24.8	16.8	1.3
13.3	22.0	42.1	8.6	14.8	4.99	1.08	25.8	24.6	17.3	1.4
13.5	22.1	42.7	8.9	13.0	5.23	1.05	25.4	24.1	17.4	1.3
13.7	22.2	43.3	9.1	11.2	5.46	1.02	25.7	24.4	17.6	1.4
13.9	22.2	44.3	9.6	9.6	5.95	0.97	25.5	23.9	17.6	1.4
14.1	22.1	45.0	10.2	8.4	6.38	0.92	25.7	24.4	17.7	1.4
14.3	22.0	46.1	11.1	7.5	7.21	0.87	25.4	23.8	18.2	1.4
14.5	21.7	47.1	12.4	6.8	8.12	0.82	25.6	24.2	18.2	1.4
14.7	21.4	47.6	13.5	6.3	8.78	0.79	26.0	24.8	18.4	1.4
14.9	21.0	47.5	14.7	6.0	8.86	0.76	26.7	25.6	19.0	1.4
15.1	20.7	47.4	16.7	5.9	9.23	0.75	26.3	24.6	18.7	1.5
15.3	20.3	47.1	18.1	5.9	9.38	0.75	26.7	25.2	18.5	1.5
15.5	19.8	46.5	18.9	5.8	9.17	0.74	26.1	24.6	18.5	1.5
16.0	18.7	45.1	21.4	6.1	9.13	0.76	26.9	25.4	18.5	1.6
16.5	17.5	44.5	23.4	6.1	9.82	0.75	27.1	25.5	18.1	1.7
17.0	16.3	43.8	26.1	5.9	10.36	0.74	27.3	25.4	17.5	1.8
17.5	15.2	43.3	24.0	5.7	10.87	0.73	27.8	25.9	17.8	1.9
18.0	14.2	43.1	20.0	5.5	11.63	0.72	27.8	25.2	17.3	2.0

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_{DD} = +5 V, I_{DD} = 69 mA, V_{EN} = +5 V @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output		1dB Comp. Output	Noise Figure
							P _{OUT} = +5	P _{OUT} = 0		
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	dBm/Tone	dBm/Tone	(dBm)	(dB)
4.0	17.9	68.6	2.8	4.5	54.9	1.0	15.8	18.8	9.1	2.2
4.5	20.8	60.9	4.0	7.3	26.4	1.1	23.3	23.4	11.5	1.3
5.0	22.5	57.6	6.3	11.1	21.4	1.1	28.9	27.4	13.8	0.8
5.5	22.7	56.9	9.4	13.1	22.8	1.1	31.4	28.7	15.3	0.7
5.7	22.6	57.0	10.9	13.5	24.6	1.0	31.9	29.5	15.7	0.7
5.9	22.5	57.0	12.7	14.1	25.8	1.0	31.9	28.4	16.0	0.7
6.1	22.5	57.5	14.8	15.0	28.2	1.0	32.3	29.7	16.3	0.7
6.3	22.4	58.6	17.6	16.1	33.0	1.0	32.5	29.5	16.4	0.7
6.5	22.4	59.4	21.5	17.6	37.0	1.0	31.9	30.4	16.5	0.7
6.7	22.3	60.5	27.5	19.4	42.6	1.0	32.0	30.5	16.7	0.7
6.9	22.3	61.4	31.8	21.3	47.6	1.0	31.1	29.7	16.7	0.7
7.1	22.3	61.9	24.5	22.0	50.8	1.0	30.8	29.3	16.8	0.7
7.3	22.3	62.2	21.0	20.9	52.0	1.0	31.3	29.4	16.8	0.7
7.5	22.3	61.7	18.5	19.0	49.1	1.0	31.0	29.5	16.9	0.7
7.7	22.3	60.5	16.9	17.3	42.2	1.0	30.5	29.8	16.9	0.7
7.9	22.3	59.5	15.7	15.8	37.2	1.0	30.6	30.0	16.9	0.7
8.1	22.3	58.4	14.7	14.6	32.3	1.0	30.4	29.4	17.1	0.7
8.3	22.3	56.8	13.9	13.6	26.3	1.0	30.3	29.4	17.1	0.7
8.5	22.3	55.4	13.4	12.8	22.1	1.0	29.6	29.0	17.3	0.7
8.7	22.4	54.4	12.8	12.4	19.3	1.0	29.7	29.1	17.3	0.8
8.9	22.4	53.1	12.3	12.2	16.6	1.0	30.4	29.5	17.3	0.7
9.1	22.5	51.9	11.9	12.3	14.3	1.0	29.7	29.0	17.3	0.7
9.3	22.6	50.5	11.5	12.7	12.0	1.0	30.3	30.4	17.4	0.8
9.5	22.7	49.5	11.0	13.4	10.5	1.0	30.9	30.6	17.3	0.7
9.7	22.8	48.7	10.6	14.3	9.5	1.0	30.6	29.0	17.3	0.7
9.9	22.9	47.6	10.2	15.3	8.3	1.1	30.5	29.8	17.3	0.7
10.1	22.9	46.8	9.7	16.3	7.5	1.1	30.7	29.8	17.2	0.7
10.3	23.0	46.0	9.4	16.9	6.8	1.1	31.0	29.1	17.4	0.7
10.5	23.0	45.3	9.1	17.1	6.2	1.1	29.5	29.1	17.1	0.7
10.7	23.0	44.6	8.8	17.0	5.6	1.1	30.3	28.7	17.0	0.7
10.9	23.0	43.9	8.8	16.5	5.2	1.1	30.2	29.8	17.0	0.7
11.1	23.0	43.3	8.8	16.1	4.8	1.1	29.7	29.5	16.8	0.7
11.3	23.0	42.8	8.7	16.0	4.5	1.1	30.2	28.3	16.7	0.7
11.5	23.0	42.3	8.8	15.9	4.3	1.1	30.2	28.9	16.6	0.7
11.7	23.0	41.9	8.9	15.9	4.1	1.1	29.6	28.0	16.5	0.7
11.9	22.9	41.6	8.9	16.2	4.1	1.1	30.4	28.8	16.6	0.7
12.1	22.9	41.4	8.9	16.9	4.0	1.1	29.0	28.5	16.5	0.8
12.3	22.9	41.3	8.8	17.9	4.0	1.1	28.7	27.5	16.5	0.8
12.5	23.0	41.2	8.8	19.1	3.9	1.1	28.9	27.8	16.4	0.8
12.7	23.0	41.2	8.9	19.8	3.9	1.1	28.6	27.6	16.5	0.8
12.9	23.2	41.3	8.9	19.5	3.9	1.1	28.9	26.8	16.4	0.8
13.1	23.3	41.4	9.0	17.8	3.9	1.1	28.8	27.8	16.8	0.9
13.3	23.5	41.6	9.1	15.7	3.9	1.1	29.0	27.5	17.0	0.8
13.5	23.7	42.1	9.2	13.8	4.04	1.05	28.9	26.7	17.0	0.8
13.7	23.9	42.7	9.3	12.0	4.15	1.02	29.0	27.5	17.2	0.8
13.9	24.1	43.4	9.5	10.3	4.36	0.98	29.2	26.5	17.2	0.9
14.1	24.1	44.4	9.8	8.9	4.68	0.94	29.1	27.3	17.3	0.8
14.3	24.0	45.4	10.3	7.7	5.11	0.88	28.6	26.8	17.3	0.9
14.5	23.9	46.6	11.0	6.8	5.79	0.83	29.0	27.2	17.4	0.8
14.7	23.6	47.7	11.8	6.2	6.53	0.79	29.9	27.8	17.5	0.9
14.9	23.2	48.2	12.8	5.9	7.16	0.76	29.8	28.3	17.6	0.9
15.1	22.9	48.3	14.1	5.7	7.54	0.75	29.4	27.4	17.7	1.0
15.3	22.5	47.9	15.4	5.7	7.53	0.74	30.1	27.8	17.7	1.0
15.5	22.1	47.2	16.9	5.8	7.42	0.74	29.4	27.4	17.5	1.0
16.0	20.9	45.7	21.5	6.0	7.31	0.74	30.8	28.4	17.2	1.1
16.5	19.6	44.6	26.8	5.8	7.44	0.73	31.7	29.7	17.6	1.2
17.0	18.4	44.0	33.3	5.7	7.90	0.72	30.1	28.2	17.3	1.3
17.5	17.2	43.3	25.7	5.5	8.25	0.72	30.9	28.4	16.8	1.3
18.0	16.1	42.9	19.4	4.9	8.36	0.68	30.8	28.4	16.4	1.4

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: $V_{DD} = +5\text{ V}$, $I_{DD} = 58\text{ mA}$, $V_{EN} = +5\text{ V}$ @ Temperature = +85°C

FREQ (GHz)	Gain (dB)	Isolation (dB)	Input Return Loss (dB)	Output Return Loss (dB)	Stability		IP-3 Output		1dB Comp. Output (dBm)	Noise Figure (dB)
							$P_{OUT} = +5$ dBm/Tone (dBm)	$P_{OUT} = 0$ dBm/Tone (dBm)		
					K	Measure				
4.0	15.3	67.1	2.9	4.8	69.3	1.0	10.8	15.2	7.4	3.8
4.5	18.4	60.2	4.1	8.1	34.1	1.2	18.5	20.2	11.0	2.4
5.0	20.1	57.3	6.4	12.3	28.4	1.2	25.2	24.4	13.9	1.8
5.5	20.3	57.1	9.6	14.5	32.2	1.1	27.2	25.5	15.4	1.6
5.7	20.2	57.2	11.1	15.0	34.0	1.0	27.6	25.7	15.7	1.6
5.9	20.1	58.1	12.8	15.6	39.8	1.0	27.9	26.3	15.9	1.5
6.1	20.0	58.6	14.6	16.3	43.3	1.0	28.6	26.7	15.9	1.5
6.3	19.9	59.4	16.7	17.1	49.2	1.0	29.0	27.3	15.9	1.5
6.5	19.9	60.5	18.7	18.0	56.3	1.0	28.7	27.1	15.9	1.5
6.7	19.8	61.5	20.3	18.9	64.8	1.0	28.8	27.6	15.9	1.5
6.9	19.8	62.5	20.4	19.5	72.2	1.0	28.0	27.1	15.9	1.5
7.1	19.8	62.8	19.2	19.1	75.4	1.0	28.0	27.3	15.8	1.5
7.3	19.8	62.3	17.9	18.0	70.8	1.0	28.4	28.1	15.8	1.5
7.5	19.8	61.2	16.6	16.4	61.7	1.0	27.9	27.3	15.8	1.5
7.7	19.7	59.9	15.6	14.9	52.5	1.0	27.7	27.1	15.8	1.5
7.9	19.7	58.4	14.8	13.7	44.0	1.0	27.4	27.6	15.8	1.6
8.1	19.7	57.3	14.1	12.8	38.2	1.0	27.2	27.0	15.8	1.6
8.3	19.7	55.9	13.5	12.1	32.0	1.0	27.4	26.9	15.8	1.5
8.5	19.7	54.6	13.1	11.7	27.3	1.0	26.5	26.3	15.9	1.6
8.7	19.8	53.4	12.5	11.5	23.3	1.0	27.4	27.1	16.0	1.6
8.9	19.8	52.5	12.0	11.5	20.8	1.0	27.6	27.3	16.0	1.5
9.1	19.9	51.2	11.6	11.6	17.6	1.0	26.8	27.0	16.1	1.6
9.3	20.0	50.0	11.0	11.8	15.2	1.0	27.1	26.7	16.1	1.6
9.5	20.1	49.0	10.6	12.1	13.2	1.0	28.1	27.8	16.2	1.6
9.7	20.2	48.2	10.2	12.5	12.0	1.0	27.3	27.0	16.0	1.6
9.9	20.3	47.2	9.9	12.9	10.6	1.0	27.4	26.7	16.1	1.6
10.1	20.4	46.3	9.6	13.3	9.4	1.1	27.2	26.9	16.0	1.6
10.3	20.4	45.6	9.3	13.5	8.6	1.1	27.2	27.0	15.8	1.6
10.5	20.5	45.0	9.2	13.8	8.0	1.1	26.2	25.7	15.6	1.6
10.7	20.5	44.3	9.0	13.9	7.3	1.1	26.4	25.7	15.6	1.6
10.9	20.5	43.8	8.9	13.9	6.8	1.1	26.5	26.4	15.5	1.6
11.1	20.6	43.3	8.9	13.9	6.4	1.1	25.8	25.4	15.4	1.6
11.3	20.5	42.7	8.9	13.9	6.1	1.1	26.4	25.5	15.5	1.6
11.5	20.5	42.4	8.8	14.0	5.8	1.1	25.9	25.5	15.3	1.6
11.7	20.5	42.0	8.8	14.2	5.6	1.1	25.2	24.6	15.1	1.6
11.9	20.5	41.8	8.7	14.8	5.5	1.1	25.8	25.5	15.0	1.6
12.1	20.5	41.7	8.6	15.4	5.4	1.1	24.8	24.3	14.8	1.7
12.3	20.5	41.6	8.5	16.3	5.4	1.1	24.6	24.0	15.0	1.7
12.5	20.6	41.6	8.3	17.0	5.4	1.1	24.7	24.0	15.2	1.7
12.7	20.7	41.7	8.3	17.0	5.4	1.1	24.6	24.0	15.0	1.7
12.9	20.8	41.9	8.2	16.5	5.4	1.1	24.7	24.0	15.3	1.7
13.1	20.9	42.2	8.2	15.2	5.5	1.1	24.9	24.3	15.5	1.7
13.3	21.1	42.6	8.3	13.6	5.7	1.1	24.9	23.8	15.9	1.8
13.5	21.2	43.2	8.5	11.9	5.90	1.05	24.6	23.4	16.1	1.8
13.7	21.3	43.9	8.8	10.3	6.28	1.01	24.9	24.1	16.2	1.8
13.9	21.2	44.8	9.2	8.9	6.74	0.96	24.6	23.4	16.3	1.8
14.1	21.1	45.7	9.8	7.7	7.39	0.90	24.9	23.8	16.6	1.8
14.3	20.9	46.5	10.6	6.9	8.12	0.85	24.6	23.4	16.9	1.8
14.5	20.7	47.3	11.6	6.2	8.89	0.80	25.0	23.6	17.1	1.9
14.7	20.3	47.7	12.6	5.9	9.56	0.77	25.6	24.4	17.4	1.9
14.9	19.9	47.7	13.8	5.6	9.95	0.75	26.1	25.1	17.6	1.9
15.1	19.6	47.4	15.2	5.5	10.03	0.73	25.8	24.6	17.4	2.0
15.3	19.1	46.9	16.7	5.5	9.99	0.72	26.2	25.2	17.3	2.0
15.5	18.7	46.4	18.4	5.4	9.98	0.72	25.6	24.6	17.0	2.0
16.0	17.5	45.3	23.4	5.5	10.20	0.72	26.5	24.7	17.1	2.1
16.5	16.4	44.4	27.7	5.7	10.73	0.73	26.7	25.2	17.1	2.2
17.0	15.3	43.8	26.8	5.7	11.49	0.73	26.9	25.1	16.5	2.3
17.5	14.1	43.5	22.4	5.3	12.31	0.71	27.9	26.0	16.1	2.5
18.0	12.9	43.2	18.9	4.7	12.64	0.67	27.7	25.2	15.5	2.6

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_{DD} = +5 V, I_{DD} = 56 mA, V_{EN} = +5 V @ Temperature = +105°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output		1dB Comp. Output	Noise Figure
							P _{OUT} = +5	P _{OUT} = 0		
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	dBm/Tone	dBm/Tone	(dBm)	(dB)
4.0	14.8	66.1	2.9	4.9	64.4	1.0	9.0	14.0	6.6	4.0
4.5	18.0	60.0	4.1	8.2	35.4	1.2	17.0	19.6	10.6	2.6
5.0	19.7	57.3	6.4	12.5	29.5	1.2	24.2	24.1	13.6	1.9
5.5	19.9	57.0	9.6	14.6	33.0	1.1	26.6	25.4	15.1	1.7
5.7	19.8	57.4	11.1	15.1	36.6	1.0	27.3	25.8	15.3	1.7
5.9	19.7	57.9	12.7	15.7	40.7	1.0	27.4	26.2	15.5	1.6
6.1	19.6	58.5	14.4	16.4	45.0	1.0	28.3	26.7	15.5	1.7
6.3	19.5	59.5	16.4	17.2	51.8	1.0	28.5	27.1	15.5	1.7
6.5	19.5	61.0	18.1	18.0	62.5	1.0	28.1	27.7	15.4	1.6
6.7	19.5	61.7	19.3	18.8	68.9	1.0	27.7	27.3	15.3	1.7
6.9	19.4	62.4	19.4	19.3	75.2	1.0	27.0	27.2	15.3	1.7
7.1	19.4	62.3	18.3	18.7	74.1	1.0	26.8	27.0	15.2	1.7
7.3	19.4	62.4	17.3	17.5	75.1	1.0	27.2	27.6	15.2	1.7
7.5	19.4	61.0	16.1	16.0	63.0	1.0	27.0	27.3	15.2	1.7
7.7	19.3	59.6	15.2	14.6	53.4	1.0	26.5	26.9	15.2	1.7
7.9	19.3	58.3	14.5	13.4	45.2	1.0	26.3	27.2	15.1	1.7
8.1	19.3	57.0	13.8	12.6	38.6	1.0	26.2	26.4	15.1	1.7
8.3	19.3	55.8	13.3	12.0	33.1	1.0	26.1	26.6	15.1	1.7
8.5	19.3	54.5	12.9	11.6	28.1	1.0	25.2	25.8	15.1	1.7
8.7	19.4	53.5	12.3	11.4	24.5	1.0	26.3	26.8	15.2	1.7
8.9	19.4	52.4	11.8	11.4	21.6	1.0	26.6	26.8	15.2	1.7
9.1	19.5	51.1	11.4	11.4	18.2	1.0	25.8	25.9	15.2	1.7
9.3	19.6	49.9	10.9	11.6	15.6	1.0	26.3	26.3	15.3	1.8
9.5	19.7	48.8	10.5	11.9	13.6	1.0	27.2	26.8	15.4	1.8
9.7	19.8	48.1	10.2	12.3	12.3	1.0	26.6	26.5	15.3	1.7
9.9	19.9	47.3	9.8	12.6	11.1	1.0	26.7	26.4	15.4	1.7
10.1	20.0	46.4	9.5	13.0	9.9	1.1	26.4	26.4	15.3	1.8
10.3	20.1	45.7	9.3	13.2	9.1	1.1	26.4	26.5	15.1	1.8
10.5	20.1	45.0	9.2	13.5	8.3	1.1	25.3	25.7	14.9	1.8
10.7	20.2	44.4	9.0	13.6	7.6	1.1	25.8	25.5	15.0	1.7
10.9	20.2	43.8	8.9	13.6	7.1	1.1	25.7	25.9	14.8	1.8
11.1	20.2	43.2	8.9	13.6	6.7	1.1	25.1	25.2	14.7	1.7
11.3	20.2	42.8	8.8	13.6	6.4	1.1	26.0	25.7	14.8	1.7
11.5	20.2	42.4	8.8	13.8	6.1	1.1	25.3	24.7	14.6	1.7
11.7	20.2	42.1	8.8	14.0	5.9	1.1	24.4	24.4	14.4	1.7
11.9	20.2	41.8	8.7	14.6	5.7	1.1	25.2	25.0	14.4	1.8
12.1	20.2	41.7	8.6	15.2	5.7	1.1	24.2	24.1	14.2	1.8
12.3	20.2	41.6	8.4	16.1	5.7	1.1	24.0	23.9	14.3	1.8
12.5	20.3	41.6	8.3	16.7	5.6	1.1	24.0	23.7	14.5	1.8
12.7	20.4	41.8	8.2	16.7	5.7	1.1	23.9	23.5	14.3	1.9
12.9	20.5	42.0	8.1	16.2	5.7	1.1	24.4	23.8	14.7	1.9
13.1	20.6	42.3	8.1	14.9	5.8	1.1	24.5	23.8	14.9	1.9
13.3	20.7	42.8	8.2	13.3	6.0	1.1	24.6	23.8	15.2	1.9
13.5	20.8	43.3	8.4	11.6	6.22	1.05	24.3	23.1	15.5	1.9
13.7	20.9	44.1	8.7	10.1	6.62	1.01	24.7	23.6	15.6	2.0
13.9	20.9	45.0	9.2	8.7	7.19	0.95	24.4	23.2	15.7	2.0
14.1	20.7	45.9	9.9	7.6	7.86	0.90	24.7	23.7	16.0	2.0
14.3	20.5	46.7	10.7	6.8	8.64	0.84	24.3	23.4	16.4	2.0
14.5	20.2	47.4	11.6	6.1	9.49	0.80	25.0	23.7	16.6	2.0
14.7	19.9	47.6	12.6	5.8	9.96	0.77	25.4	24.3	16.8	2.1
14.9	19.5	47.7	13.8	5.6	10.39	0.74	25.9	24.7	17.0	2.1
15.1	19.1	47.4	15.2	5.4	10.52	0.73	25.8	24.3	16.9	2.2
15.3	18.7	46.9	16.7	5.4	10.47	0.72	26.2	24.9	16.8	2.1
15.5	18.3	46.4	18.3	5.3	10.44	0.71	25.8	24.6	16.6	2.2
16.0	17.1	45.3	23.3	5.4	10.70	0.71	26.6	24.7	16.6	2.3
16.5	16.0	44.4	27.5	5.6	11.28	0.72	26.8	24.8	16.5	2.4
17.0	14.9	43.9	26.2	5.7	12.25	0.73	27.2	25.4	16.0	2.6
17.5	13.7	43.5	22.1	5.3	12.96	0.71	27.5	25.7	15.5	2.7
18.0	12.6	43.4	18.9	4.7	13.52	0.67	26.6	25.5	14.9	2.9