

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: $V_{DD} = +12\text{ V}$, $I_{DD} = 400\text{ mA}$ @ Temperature = $+25^\circ\text{C}$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	3dB Comp. Output	Psat Output	Noise Figure	2nd Harmonics	3rd Harmonics
					K	Measure							
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)
0.01	17.9	-50.22	-23.27	-23.65	21.01	1.00	36.75	30.27	32.57	35.59	28.68	-61.02	-108.08
0.2	15.1	-66.83	-20.75	-10.35	178.66	0.92	44.06	30.39	32.02	32.96	11.04	-56.91	-104.58
0.4	14.2	-57.84	-19.13	-10.11	68.16	0.91	46.17	30.45	31.91	32.66	7.56	-55.63	-104.10
0.6	13.5	-54.95	-18.01	-9.76	51.97	0.91	44.86	30.38	31.91	32.64	6.52	-49.53	-93.41
0.8	13.1	-53.02	-16.78	-9.68	43.42	0.91	45.02	30.57	32.10	32.75	5.54	-45.26	-88.36
1.0	12.8	-52.79	-15.68	-9.91	43.70	0.92	44.52	30.66	32.13	32.73	5.09	-42.25	-82.13
1.2	12.8	-49.62	-14.07	-10.27	30.27	0.94	44.67	30.78	32.25	32.82	4.71	-42.35	-77.62
1.4	12.6	-48.90	-13.12	-10.48	28.32	0.95	44.54	30.85	32.37	32.94	4.58	-44.09	-91.22
1.6	12.5	-48.08	-12.36	-10.94	26.21	0.97	44.22	30.83	32.32	32.80	4.41	-44.33	-92.45
1.8	12.3	-47.40	-11.83	-11.35	24.55	0.99	43.97	30.99	32.58	33.21	3.95	-43.53	-90.40
2.0	12.3	-46.71	-11.54	-11.63	22.91	1.00	44.07	30.96	32.52	32.90	3.74	-42.47	-86.91
2.2	12.2	-46.11	-11.50	-11.97	21.61	1.00	44.08	30.86	32.41	32.94	3.44	-42.71	-89.88
2.4	12.2	-45.48	-11.71	-12.39	20.38	1.01	44.03	31.07	32.68	33.19	3.37	-44.21	-87.51
2.6	12.1	-44.93	-12.21	-12.30	19.27	1.00	44.11	31.09	32.77	32.96	3.24	-43.80	-78.31
2.8	12.1	-44.32	-13.05	-12.03	18.07	0.99	44.04	30.91	32.50	33.01	2.97	-40.87	-75.72
3.0	12.1	-43.80	-14.31	-11.67	17.13	0.97	43.94	31.18	32.83	33.15	2.87	-38.91	-77.29
3.2	12.1	-43.33	-16.12	-11.27	16.32	0.95	43.77	31.64	33.34	33.42	2.80	-39.71	-73.96
3.4	12.1	-42.83	-18.69	-10.76	15.46	0.93	43.73	31.25	32.81	33.09	2.74	-41.72	-71.86
3.6	12.1	-42.34	-22.43	-10.35	14.66	0.91	43.59	31.88	33.36	33.39	2.72	-42.63	-75.34
3.8	12.1	-41.97	-27.36	-9.97	14.05	0.90	43.46	31.72	33.35	33.42	2.78	-41.54	-75.77
4.0	12.0	-41.58	-27.46	-9.70	13.41	0.89	43.35	31.28	32.88	33.01	2.76	-40.43	-73.85
4.2	12.0	-41.20	-23.45	-9.63	12.87	0.89	43.28	31.44	33.10	33.31	2.80	-40.93	-75.43
4.4	11.9	-40.86	-20.70	-9.74	12.43	0.90	43.10	31.37	33.15	33.52	2.90	-41.85	-75.39
4.6	11.9	-40.51	-19.14	-9.82	11.97	0.90	42.92	31.27	33.01	33.48	2.77	-40.85	-70.67
4.8	11.9	-40.18	-18.34	-10.15	11.62	0.91	42.68	31.48	33.29	33.57	2.75	-38.04	-72.97
5.0	11.9	-39.79	-18.13	-10.80	11.27	0.93	42.15	31.23	32.94	33.31	2.83	-36.07	-74.57
5.2	11.9	-39.43	-18.45	-11.28	10.91	0.94	42.02	31.33	33.04	33.42	2.77	-36.90	-72.64
5.4	11.9	-39.06	-19.35	-11.98	10.60	0.95	41.95	31.55	33.26	33.59	2.77	-39.03	-75.26
5.6	11.9	-38.72	-20.62	-12.73	10.32	0.95	41.98	31.24	32.95	33.34	2.72	-40.51	-80.86
5.8	11.9	-38.25	-21.79	-13.29	9.85	0.96	42.19	31.45	33.19	33.50	2.78	-39.99	-79.64
6.0	11.9	-37.72	-23.73	-13.73	9.35	0.96	42.18	31.48	33.26	33.52	2.89	-39.86	-79.13
6.2	11.9	-37.43	-24.92	-14.31	9.12	0.96	42.03	31.43	33.29	33.58	2.79	-40.49	-81.91
6.4	11.9	-37.19	-24.77	-14.56	8.91	0.97	41.85	31.63	33.52	33.72	2.82	-41.06	-80.03
6.6	11.8	-36.95	-23.86	-14.39	8.70	0.96	41.51	31.76	33.61	33.79	2.87	-39.80	-76.91
6.8	11.7	-36.74	-23.20	-14.00	8.51	0.96	41.09	31.72	33.61	33.75	2.93	-37.43	-82.85
7.0	11.7	-36.54	-23.23	-13.39	8.34	0.96	40.75	31.56	33.46	33.64	2.97	-37.38	-84.00
7.2	11.6	-36.35	-23.93	-13.01	8.21	0.95	40.68	31.37	33.29	33.47	3.06	-39.65	-83.34
7.4	11.5	-36.18	-25.09	-12.61	8.10	0.94	40.69	31.44	33.37	33.49	3.09	-41.15	-88.95
7.6	11.4	-35.96	-25.98	-12.17	7.95	0.94	40.64	31.26	33.20	33.37	3.19	-42.69	-101.73
7.8	11.3	-35.77	-25.38	-11.98	7.81	0.94	40.65	31.21	33.25	33.42	3.23	-43.01	-97.37
8.0	11.3	-35.63	-23.34	-12.09	7.75	0.94	40.59	31.08	33.11	33.33	3.27	-44.21	-98.91
8.2	11.2	-35.45	-20.80	-12.09	7.62	0.94	40.39	30.87	32.95	33.27	3.34	-46.33	-95.67
8.4	11.2	-35.25	-18.61	-11.98	7.44	0.94	40.11	30.78	32.88	33.17	3.39	-46.71	-100.62
8.6	11.1	-35.03	-17.07	-12.40	7.29	0.96	39.69	30.54	32.66	32.99	3.37	-44.73	-93.85
8.8	11.1	-34.79	-16.28	-12.79	7.13	0.96	39.45	30.60	32.67	32.95	3.43	-43.10	-96.23
9.0	11.0	-34.55	-16.14	-13.29	7.00	0.97	39.36	30.56	32.40	32.69	3.49	-43.14	-
9.2	11.0	-34.32	-16.63	-13.24	6.87	0.97	39.23	30.60	32.38	32.68	3.63	-44.85	-
9.4	10.9	-34.09	-18.05	-13.32	6.81	0.97	39.00	30.70	32.40	32.60	3.73	-46.78	-
9.6	10.7	-33.96	-21.29	-12.82	6.82	0.96	38.98	30.78	32.46	32.49	3.75	-47.78	-
9.8	10.5	-33.87	-24.36	-12.46	6.92	0.94	38.78	31.01	32.48	32.44	3.92	-48.29	-
10.0	10.3	-33.85	-33.06	-11.75	7.07	0.93	38.49	30.96	32.27	32.23	4.08	-50.60	-
10.5	9.5	-34.12	-16.95	-11.25	7.79	0.94	-	31.35	32.23	32.18	-	-	-
11.0	8.7	-34.44	-12.55	-11.61	8.56	0.98	-	30.74	31.62	31.56	-	-	-
11.5	8.1	-34.59	-12.51	-12.92	9.38	1.00	-	29.67	30.95	30.89	-	-	-
12.0	7.6	-34.68	-17.32	-15.19	10.75	0.99	-	28.83	30.28	30.23	-	-	-

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Input Return Loss = S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +14\text{ V}$, $I_{DD} = 400\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	3dB Comp. Output	Psat Output	Noise Figure	2nd Harmonics	3rd Harmonics
					K	Measure							
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)
0.01	17.72	-57.14	-23.23	-24.17	51.55	1.00	38.74	30.64	35.34	36.22	28.75	-60.14	-111.77
0.2	14.97	-67.15	-20.72	-10.93	187.14	0.93	39.36	31.19	33.22	34.09	11.10	-56.80	-105.35
0.4	14.10	-59.10	-19.09	-10.68	84.31	0.93	45.85	31.30	33.13	33.77	7.57	-55.89	-103.46
0.6	13.40	-55.36	-18.05	-10.03	56.41	0.91	46.47	31.23	33.15	33.73	6.49	-49.68	-95.69
0.8	12.95	-53.46	-16.83	-9.90	46.77	0.92	45.56	31.44	33.35	33.80	5.55	-45.79	-92.58
1.0	12.67	-52.72	-15.75	-10.11	44.27	0.93	45.21	31.65	33.40	33.79	5.09	-42.62	-83.05
1.2	12.65	-49.75	-14.16	-10.51	31.42	0.94	44.96	31.78	33.52	33.88	4.75	-42.79	-76.54
1.4	12.47	-49.12	-13.21	-10.67	29.68	0.96	45.21	31.88	33.64	33.93	4.60	-44.54	-90.21
1.6	12.32	-48.16	-12.47	-11.01	26.96	0.97	45.04	31.88	33.60	33.74	4.44	-44.64	-99.07
1.8	12.20	-47.07	-11.95	-11.60	24.24	0.99	44.70	32.06	33.90	34.15	3.99	-43.66	-90.10
2.0	12.12	-46.42	-11.67	-11.75	22.63	1.00	44.40	32.03	33.84	33.77	3.77	-42.65	-82.46
2.2	12.06	-45.94	-11.62	-11.95	21.59	1.00	44.32	31.94	33.72	33.83	3.44	-42.82	-85.90
2.4	12.01	-45.84	-11.83	-12.51	21.69	1.01	44.47	32.11	33.96	34.04	3.33	-44.26	-85.17
2.6	11.99	-44.70	-12.34	-12.22	19.10	1.00	44.49	32.11	33.84	33.77	3.22	-43.72	-77.58
2.8	11.99	-44.28	-13.19	-11.97	18.33	0.98	44.55	31.90	33.78	33.85	2.99	-40.73	-74.99
3.0	11.98	-43.63	-14.45	-11.65	17.14	0.97	44.36	32.12	34.01	33.97	2.92	-38.84	-77.12
3.2	11.99	-43.39	-16.25	-11.18	16.74	0.95	44.38	32.56	34.29	34.18	2.86	-39.67	-73.51
3.4	11.98	-43.00	-18.83	-10.74	16.06	0.93	44.27	32.29	34.03	33.93	2.79	-41.64	-71.98
3.6	11.95	-42.16	-22.58	-10.09	14.54	0.91	44.08	32.98	34.24	34.14	2.72	-42.34	-75.43
3.8	11.91	-42.12	-27.40	-9.94	14.57	0.90	43.87	32.84	34.23	34.13	2.82	-41.26	-76.20
4.0	11.85	-41.83	-27.31	-9.58	14.03	0.89	43.85	32.33	33.84	33.74	2.76	-40.26	-73.92
4.2	11.80	-40.92	-23.38	-9.42	12.64	0.89	43.66	32.97	34.52	34.05	2.81	-40.78	-75.86
4.4	11.75	-40.55	-20.68	-9.45	12.13	0.89	43.66	32.89	34.47	34.11	2.92	-41.84	-75.93
4.6	11.72	-40.31	-19.09	-9.83	11.93	0.90	43.48	32.79	34.36	34.48	2.79	-40.68	-71.55
4.8	11.69	-39.94	-18.30	-9.82	11.44	0.91	43.33	33.01	34.56	34.59	2.81	-37.87	-74.06
5.0	11.67	-39.80	-18.10	-10.56	11.45	0.92	43.03	32.7	34.2	34.3	2.88	-35.94	-75.61
5.2	11.69	-39.25	-18.48	-10.84	10.81	0.93	42.51	32.8	34.37	34.40	2.78	-36.73	-73.59
5.4	11.71	-39.05	-19.34	-11.70	10.74	0.94	42.45	33.1	34.57	34.49	2.78	-38.97	-76.70
5.6	11.73	-38.94	-20.62	-12.42	10.74	0.95	42.32	32.7	34.27	34.23	2.79	-40.45	-81.49
5.8	11.76	-38.41	-22.08	-13.03	10.17	0.95	42.49	32.9	34.45	34.41	2.81	-39.91	-80.69
6.0	11.75	-38.00	-24.86	-14.04	9.85	0.96	42.59	33.1	34.5	34.4	2.81	-39.79	-79.58
6.2	11.72	-37.42	-26.72	-13.96	9.25	0.96	42.58	33.0	34.60	34.52	2.84	-40.47	-83.11
6.4	11.71	-37.23	-26.03	-14.33	9.09	0.96	42.43	33.3	34.76	34.68	2.89	-40.99	-80.52
6.6	11.66	-36.88	-24.18	-14.28	8.77	0.96	42.16	33.4	34.82	34.76	2.94	-39.71	-78.43
6.8	11.60	-36.78	-22.86	-14.31	8.72	0.96	41.84	33.4	34.77	34.70	2.95	-37.36	-84.89
7.0	11.54	-36.47	-22.36	-13.68	8.41	0.96	41.41	33.2	34.7	34.6	3.03	-37.31	-85.65
7.2	11.45	-36.35	-22.67	-13.24	8.34	0.95	41.14	33.0	34.48	34.41	3.11	-39.60	-84.70
7.4	11.35	-36.05	-23.80	-13.06	8.15	0.95	41.05	33.1	34.50	34.45	3.16	-41.05	-91.10
7.6	11.30	-36.34	-25.80	-12.30	8.40	0.94	41.04	32.9	34.44	34.39	3.22	-42.70	-98.70
7.8	11.23	-35.92	-27.25	-12.30	8.09	0.94	40.96	32.9	34.48	34.42	3.25	-43.03	-99.68
8.0	11.16	-35.53	-25.38	-12.15	7.77	0.94	40.94	32.8	34.3	34.3	3.32	-44.23	-100.11
8.2	11.12	-35.43	-21.94	-12.39	7.72	0.94	40.85	32.6	34.29	34.24	3.37	-46.36	-94.43
8.4	11.04	-35.28	-19.09	-11.93	7.57	0.94	40.73	32.5	34.19	34.14	3.40	-46.74	-100.37
8.6	11.00	-34.98	-17.12	-12.68	7.38	0.96	40.36	32.3	34.00	33.97	3.40	-44.63	-92.64
8.8	10.95	-34.67	-15.85	-12.80	7.12	0.97	39.99	32.4	33.98	33.95	3.46	-43.15	-90.30
9.0	10.88	-34.58	-15.23	-13.13	7.09	0.98	39.61	32.4	33.7	33.7	3.54	-43.11	-
9.2	10.80	-34.36	-15.32	-13.30	6.99	0.98	39.44	32.4	33.69	33.66	3.68	-44.89	-
9.4	10.70	-34.15	-16.20	-13.02	6.91	0.97	39.32	32.5	33.60	33.56	3.75	-46.88	-
9.6	10.55	-33.74	-18.08	-12.88	6.75	0.96	39.24	32.6	33.49	33.44	3.82	-48.08	-
9.8	10.37	-33.87	-21.77	-11.96	6.98	0.94	39.29	32.8	33.45	33.41	3.95	-48.42	-
10.0	10.13	-33.80	-27.57	-11.59	7.12	0.93	39.06	32.7	33.2	33.1	4.13	-50.65	-
10.5	9.25	-33.94	-16.30	-10.75	7.74	0.93	38.74	33.15	33.16	33.11	-	-	-
11.0	8.41	-34.44	-11.52	-10.93	8.59	0.98	-	32.45	32.46	32.39	-	-	-
11.5	7.88	-34.63	-11.32	-12.52	9.48	1.01	-	31.81	31.87	31.80	-	-	-
12.0	7.41	-34.51	-16.33	-14.26	10.62	0.98	-	31.01	31.19	31.14	-	-	-

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Reverse Isolation = S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +16\text{ V}$, $I_{DD} = 400\text{ mA}$ @ Temperature = $+25^\circ\text{C}$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	3dB Comp. Output	Psat Output	Noise Figure	2nd Harmonics	3rd Harmonics
					K	Measure							
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)
0.01	17.53	-55.26	-23.14	-24.22	51.94	1.00	40.03	31.33	33.39	37.70	28.79	-59.85	-111.87
0.2	14.86	-68.10	-20.71	-11.37	271.45	0.93	45.31	32.09	35.11	35.01	11.16	-56.81	-100.48
0.4	14.00	-58.76	-19.07	-11.09	81.96	0.93	46.11	32.15	34.27	34.70	7.62	-55.46	-103.15
0.6	13.37	-55.33	-18.08	-10.27	55.94	0.92	45.58	32.06	34.29	34.63	6.58	-49.67	-91.59
0.8	12.91	-53.63	-16.84	-10.18	48.14	0.92	45.37	32.21	34.51	34.65	5.59	-45.82	-86.98
1.0	12.61	-53.02	-15.72	-10.37	46.41	0.93	45.20	32.43	34.59	34.65	5.14	-42.88	-82.65
1.2	12.59	-49.98	-14.10	-10.67	32.60	0.95	45.74	32.59	34.67	34.73	4.76	-43.02	-78.11
1.4	12.39	-49.27	-13.14	-10.86	30.56	0.96	45.43	32.71	34.79	34.72	4.65	-44.67	-87.87
1.6	12.23	-48.41	-12.38	-11.25	28.11	0.98	45.23	32.75	34.55	34.49	4.51	-44.85	-88.87
1.8	12.11	-47.87	-11.86	-11.57	26.74	0.99	44.97	32.91	34.97	34.90	4.01	-43.95	-91.53
2.0	12.00	-47.19	-11.58	-11.87	25.03	1.00	44.94	32.90	34.50	34.43	3.83	-42.62	-83.29
2.2	11.93	-46.50	-11.55	-12.12	23.36	1.00	45.11	32.76	34.57	34.52	3.52	-42.85	-86.84
2.4	11.88	-45.88	-11.79	-12.35	22.02	1.00	44.96	32.86	34.75	34.69	3.37	-44.18	-84.66
2.6	11.86	-45.34	-12.31	-12.22	20.85	1.00	44.99	32.89	34.39	34.32	3.26	-43.51	-77.71
2.8	11.86	-44.74	-13.17	-12.02	19.62	0.98	44.85	32.60	34.52	34.47	3.04	-40.69	-75.63
3.0	11.85	-44.23	-14.47	-11.63	18.63	0.97	44.76	32.78	34.59	34.53	2.96	-38.68	-77.42
3.2	11.85	-43.71	-16.35	-11.19	17.64	0.95	44.64	33.15	34.75	34.65	2.88	-39.41	-73.96
3.4	11.84	-43.26	-19.02	-10.73	16.81	0.93	44.46	33.02	34.59	34.48	2.79	-41.42	-71.67
3.6	11.81	-42.85	-22.88	-10.29	16.07	0.91	44.25	33.66	34.70	34.60	2.76	-42.07	-75.13
3.8	11.77	-42.43	-27.71	-9.92	15.32	0.90	44.06	33.61	34.71	34.61	2.83	-41.11	-75.43
4.0	11.72	-41.97	-26.87	-9.74	14.54	0.89	43.99	33.17	34.33	34.23	2.81	-40.13	-73.18
4.2	11.67	-41.61	-23.00	-9.57	13.94	0.89	43.93	33.84	35.47	34.75	2.87	-40.62	-75.60
4.4	11.61	-41.29	-20.46	-9.74	13.53	0.90	43.73	33.67	35.35	35.09	2.94	-41.66	-75.21
4.6	11.57	-40.90	-19.03	-9.83	12.98	0.91	43.66	33.64	35.23	35.16	2.82	-40.47	-70.80
4.8	11.55	-40.52	-18.33	-10.16	12.54	0.92	43.43	33.83	35.35	35.27	2.80	-37.61	-73.13
5.0	11.53	-40.19	-18.26	-10.67	12.22	0.93	42.89	33.55	35.05	35.01	2.90	-35.75	-74.53
5.2	11.53	-39.82	-18.72	-11.19	11.84	0.94	42.91	33.66	35.13	35.10	2.86	-36.56	-72.16
5.4	11.54	-39.45	-19.82	-11.86	11.51	0.94	42.86	34.03	35.28	35.23	2.83	-38.77	-75.21
5.6	11.55	-39.13	-21.31	-12.58	11.23	0.95	42.87	33.71	34.96	34.93	2.79	-40.28	-80.67
5.8	11.55	-38.51	-22.66	-13.20	10.57	0.96	43.01	33.85	35.04	35.03	2.85	-39.77	-79.35
6.0	11.54	-38.07	-24.72	-13.68	10.14	0.96	42.91	34.03	35.12	35.11	2.84	-39.52	-79.29
6.2	11.52	-37.79	-25.76	-14.21	9.88	0.96	42.79	34.08	35.27	35.21	2.86	-40.27	-81.78
6.4	11.49	-37.55	-24.92	-14.33	9.66	0.96	42.57	34.33	35.43	35.36	2.93	-40.84	-80.37
6.6	11.43	-37.27	-23.27	-14.20	9.40	0.96	42.23	34.56	35.52	35.45	2.96	-39.53	-77.79
6.8	11.37	-37.04	-22.33	-13.90	9.18	0.96	41.85	34.63	35.49	35.40	3.02	-37.24	-83.20
7.0	11.29	-36.86	-22.40	-13.40	9.03	0.96	41.62	34.46	35.39	35.31	3.08	-37.11	-83.81
7.2	11.21	-36.69	-23.42	-12.93	8.90	0.95	41.44	34.24	35.23	35.15	3.14	-39.40	-83.94
7.4	11.11	-36.45	-25.76	-12.50	8.72	0.94	41.46	34.35	35.24	35.22	3.18	-40.88	-90.61
7.6	11.01	-36.22	-28.30	-12.09	8.56	0.94	41.31	34.19	35.19	35.13	3.23	-42.39	-94.32
7.8	10.93	-36.02	-26.80	-11.80	8.41	0.93	41.33	34.14	35.19	35.12	3.28	-42.74	-98.65
8.0	10.86	-35.88	-23.73	-11.83	8.33	0.93	41.27	34.04	35.03	34.98	3.37	-43.98	-100.38
8.2	10.79	-35.72	-20.69	-11.75	8.20	0.94	41.04	33.83	34.97	34.92	3.43	-46.20	-100.79
8.4	10.73	-35.47	-18.30	-11.85	7.99	0.94	40.77	33.91	34.88	34.82	3.45	-46.57	-98.92
8.6	10.68	-35.27	-16.68	-12.21	7.85	0.95	40.38	33.78	34.72	34.67	3.46	-44.43	-99.10
8.8	10.63	-35.02	-15.80	-12.61	7.66	0.97	40.08	34.13	34.73	34.67	3.50	-42.93	-92.27
9.0	10.57	-34.77	-15.56	-13.08	7.53	0.97	39.91	34.06	34.51	34.44	3.58	-42.90	-
9.2	10.50	-34.53	-15.93	-13.12	7.38	0.97	39.84	34.08	34.44	34.39	3.72	-44.87	-
9.4	10.39	-34.30	-17.04	-13.24	7.33	0.97	39.79	34.17	34.37	34.31	3.82	-46.75	-
9.6	10.25	-34.13	-19.33	-12.69	7.32	0.96	39.84	34.29	34.28	34.21	3.85	-47.94	-
9.8	10.04	-34.03	-23.91	-12.40	7.44	0.94	39.56	34.33	34.30	34.23	4.02	-48.37	-
10.0	9.78	-34.02	-28.12	-11.70	7.62	0.93	39.24	34.03	34.00	33.94	4.17	-50.68	-
10.5	8.93	-34.32	-16.56	-10.76	8.38	0.93	-	33.88	33.86	33.80	-	-	-
11.0	8.07	-34.72	-11.87	-11.12	9.31	0.98	-	33.03	33.01	32.94	-	-	-
11.5	7.55	-34.77	-11.80	-12.57	10.12	1.01	-	32.55	32.53	32.47	-	-	-
12.0	7.08	-34.74	-16.84	-14.72	11.40	0.99	-	31.89	31.87	31.82	-	-	-

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: $V_{DD} = +12\text{ V}$, $I_{DD} = 400\text{ mA}$ @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	3dB Comp. Output	Psat Output	Noise Figure
					K	Measure					
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
0.0	18.83	-56.36	-24.14	-24.85	39.31	1.00	40.72	30.27	31.35	35.50	26.12
0.2	15.61	-63.26	-20.94	-10.75	109.80	0.92	47.26	30.50	31.93	32.94	10.13
0.4	14.70	-59.16	-19.24	-10.40	75.70	0.92	45.54	30.17	31.62	32.55	6.63
0.6	14.05	-54.62	-18.19	-9.76	47.09	0.91	44.88	30.08	31.60	32.55	5.75
0.8	13.57	-53.64	-16.81	-9.70	44.26	0.91	44.58	30.38	31.89	32.72	4.67
1.0	13.26	-53.49	-15.64	-9.88	44.98	0.92	43.90	30.61	32.02	32.75	4.26
1.2	13.28	-50.29	-13.94	-10.13	30.79	0.94	43.42	30.74	32.14	32.84	3.94
1.4	13.09	-49.69	-12.89	-10.31	29.16	0.95	43.38	30.95	32.34	33.02	3.68
1.6	12.96	-48.52	-12.10	-10.62	25.78	0.97	43.51	30.96	32.31	32.90	3.45
1.8	12.85	-48.02	-11.57	-11.10	24.66	0.98	43.40	31.14	32.58	33.32	3.25
2.0	12.79	-47.12	-11.28	-11.71	22.50	1.00	43.56	31.19	32.60	33.04	3.01
2.2	12.75	-46.66	-11.25	-12.32	21.60	1.01	43.81	31.07	32.48	33.09	2.84
2.4	12.74	-46.06	-11.44	-12.75	20.38	1.01	43.55	31.32	32.77	33.37	2.62
2.6	12.74	-45.36	-11.85	-12.94	18.96	1.01	43.41	31.46	32.92	33.18	2.51
2.8	12.74	-44.99	-12.70	-12.77	18.35	1.00	43.39	31.23	32.61	33.21	2.23
3.0	12.75	-44.25	-13.87	-12.32	16.92	0.98	43.22	31.47	32.91	33.32	2.12
3.2	12.75	-43.63	-15.67	-11.70	15.84	0.96	43.01	32.01	33.44	33.60	2.02
3.4	12.75	-43.21	-18.27	-10.91	15.07	0.93	42.88	31.55	32.90	33.25	1.99
3.6	12.71	-42.80	-22.09	-10.20	14.36	0.91	42.69	32.18	33.46	33.59	1.99
3.8	12.67	-42.35	-27.92	-9.62	13.57	0.89	42.53	32.13	33.51	33.68	2.01
4.0	12.62	-41.77	-29.76	-9.20	12.63	0.88	42.31	31.67	33.01	33.23	1.97
4.2	12.59	-41.77	-24.91	-9.09	12.60	0.88	42.04	32.08	33.41	33.98	2.01
4.4	12.57	-41.22	-21.71	-9.28	11.90	0.88	41.77	32.10	33.52	34.07	2.06
4.6	12.55	-41.03	-19.73	-9.61	11.72	0.90	41.59	31.94	33.32	33.89	2.06
4.8	12.54	-40.55	-18.51	-9.99	11.18	0.91	41.45	32.16	33.65	34.04	2.06
5.0	12.52	-40.19	-17.94	-10.43	10.85	0.92	41.25	31.90	33.29	33.70	2.06
5.2	12.50	-40.00	-17.92	-10.85	10.72	0.93	40.95	31.92	33.33	33.82	2.08
5.4	12.51	-39.40	-18.52	-11.34	10.11	0.94	40.75	32.13	33.62	33.99	2.00
5.6	12.52	-39.30	-19.59	-11.78	10.08	0.94	40.58	31.84	33.34	33.81	2.03
5.8	12.53	-38.78	-20.59	-12.15	9.57	0.95	40.49	32.01	33.54	33.96	1.98
6.0	12.53	-38.28	-22.82	-12.61	9.13	0.95	40.53	32.09	33.64	33.94	1.97
6.2	12.53	-38.12	-24.43	-13.06	9.03	0.95	40.55	32.14	33.71	34.03	2.02
6.4	12.52	-37.62	-24.63	-13.51	8.58	0.96	40.43	32.37	33.93	34.16	2.05
6.6	12.50	-37.39	-24.04	-13.92	8.42	0.96	40.33	32.59	34.09	34.26	2.03
6.8	12.47	-37.09	-23.04	-14.15	8.17	0.96	40.23	32.67	34.16	34.27	2.12
7.0	12.43	-36.66	-22.34	-14.24	7.81	0.96	40.10	32.53	34.02	34.18	2.16
7.2	12.37	-36.45	-22.07	-14.08	7.67	0.96	39.88	32.36	33.82	34.02	2.20
7.4	12.30	-36.43	-22.40	-13.94	7.69	0.96	39.78	32.51	33.91	34.09	2.23
7.6	12.25	-36.29	-23.21	-13.70	7.60	0.96	39.63	32.28	33.65	33.91	2.27
7.8	12.21	-36.12	-23.87	-13.48	7.49	0.95	39.53	32.28	33.72	33.99	2.30
8.0	12.16	-35.96	-23.87	-13.29	7.38	0.95	39.41	32.20	33.68	33.95	2.34
8.2	12.13	-35.78	-22.29	-13.23	7.25	0.95	39.51	31.90	33.42	33.81	2.31
8.4	12.09	-35.43	-20.10	-13.31	6.98	0.96	39.25	31.95	33.45	33.81	2.41
8.6	12.04	-35.29	-18.09	-13.49	6.88	0.96	38.96	31.75	33.27	33.68	2.44
8.8	12.02	-34.88	-16.63	-13.83	6.57	0.97	38.91	31.72	33.18	33.53	2.44
9.0	11.97	-34.74	-15.79	-14.07	6.48	0.98	38.86	31.81	33.04	33.37	2.51
9.2	11.92	-34.40	-15.62	-14.13	6.26	0.98	38.83	31.70	32.91	33.26	2.51
9.4	11.84	-34.28	-16.17	-13.83	6.23	0.98	38.60	31.64	32.85	33.16	2.56
9.6	11.72	-34.12	-17.63	-13.27	6.19	0.97	38.51	31.70	32.91	33.09	2.61
9.8	11.59	-33.94	-20.55	-12.56	6.16	0.95	38.44	31.79	32.97	33.07	2.71
10.0	11.39	-33.94	-26.31	-11.85	6.27	0.93	38.12	31.65	32.81	32.84	2.82
10.5	10.66	-34.14	-18.80	-10.46	6.75	0.91	-	32.03	32.88	32.84	-
11.0	9.75	-34.77	-11.89	-9.95	7.55	0.95	-	31.75	32.39	32.35	-
11.5	9.09	-35.09	-10.52	-10.97	8.37	1.00	-	30.79	31.73	31.68	-
12.0	8.76	-35.00	-14.80	-13.60	9.46	0.99	-	29.59	30.82	30.87	-

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: $V_{DD} = +12\text{ V}$, $I_{DD} = 400\text{ mA}$ @ Temperature = $+85^\circ\text{C}$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	3dB Comp. Output	Psat Output	Noise Figure
					K	Measure					
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
0.01	17.32	-55.02	-22.57	-22.38	37.91	1.00	41.39	29.01	32.27	34.52	29.55
0.2	14.44	-64.83	-20.44	-10.37	172.49	0.92	44.81	30.60	31.97	32.68	11.57
0.4	13.58	-56.48	-19.23	-10.20	62.88	0.91	46.00	30.60	31.88	32.41	8.07
0.6	12.87	-54.31	-18.45	-9.71	52.54	0.90	46.17	30.46	31.83	32.36	7.07
0.8	12.46	-52.55	-17.23	-9.55	44.32	0.90	45.80	30.54	31.94	32.36	6.11
1.0	12.23	-51.43	-16.02	-9.83	39.95	0.92	45.68	30.56	31.92	32.32	5.70
1.2	12.21	-49.03	-14.34	-10.21	30.29	0.94	46.59	30.66	32.05	32.45	5.36
1.4	12.05	-48.20	-13.29	-10.61	28.00	0.95	46.05	30.67	32.12	32.50	5.09
1.6	11.93	-47.19	-12.47	-11.02	25.23	0.97	46.04	30.60	32.05	32.37	4.86
1.8	11.81	-46.45	-11.91	-11.43	23.49	0.99	45.90	30.72	32.29	32.75	4.57
2.0	11.73	-45.43	-11.60	-11.76	21.06	1.00	46.26	30.62	32.21	32.44	4.36
2.2	11.66	-45.07	-11.57	-12.02	20.43	1.00	46.08	30.51	32.09	32.48	4.19
2.4	11.64	-44.23	-11.82	-12.15	18.69	1.00	45.82	30.65	32.33	32.70	3.93
2.6	11.62	-43.70	-12.38	-12.10	17.74	0.99	45.68	30.59	32.43	32.47	3.80
2.8	11.62	-43.25	-13.32	-11.93	17.01	0.98	45.50	30.46	32.14	32.52	3.51
3.0	11.63	-42.93	-14.66	-11.58	16.46	0.96	45.44	30.65	32.46	32.67	3.36
3.2	11.63	-42.33	-16.59	-11.21	15.47	0.95	45.12	30.93	32.92	32.88	3.25
3.4	11.63	-41.94	-19.16	-10.84	14.84	0.93	44.77	30.71	32.46	32.62	3.25
3.6	11.61	-41.28	-22.83	-10.52	13.82	0.92	44.34	31.31	32.99	32.89	3.20
3.8	11.58	-40.95	-26.83	-10.23	13.32	0.91	44.17	31.15	32.89	32.84	3.26
4.0	11.52	-40.65	-26.15	-9.96	12.86	0.90	44.19	30.72	32.49	32.49	3.23
4.2	11.45	-40.27	-22.80	-9.70	12.30	0.89	44.19	30.79	32.65	33.22	3.27
4.4	11.36	-39.91	-20.44	-9.54	11.82	0.89	44.08	30.59	32.52	33.14	3.30
4.6	11.29	-39.74	-19.07	-9.49	11.64	0.90	43.85	30.49	32.39	33.03	3.38
4.8	11.26	-39.39	-18.44	-9.63	11.23	0.90	43.42	30.59	32.56	33.13	3.33
5.0	11.25	-38.95	-18.48	-9.99	10.79	0.91	43.33	30.50	32.28	32.88	3.33
5.2	11.26	-38.63	-19.00	-10.58	10.53	0.92	43.18	30.62	32.34	32.99	3.36
5.4	11.30	-37.96	-20.04	-11.31	9.88	0.93	43.22	30.78	32.49	33.08	3.30
5.6	11.33	-37.91	-21.41	-12.14	9.95	0.94	43.07	30.48	32.14	32.83	3.35
5.8	11.34	-37.26	-23.03	-13.01	9.35	0.95	43.06	30.53	32.48	32.98	3.32
6.0	11.34	-36.82	-25.87	-13.85	9.01	0.96	42.75	30.60	32.24	32.99	3.32
6.2	11.33	-36.50	-27.57	-14.42	8.75	0.96	42.24	31.07	32.96	33.02	3.38
6.4	11.30	-36.36	-27.01	-14.61	8.66	0.96	42.10	31.21	33.14	33.15	3.39
6.6	11.26	-36.07	-25.19	-14.50	8.40	0.96	41.94	31.27	33.19	33.18	3.46
6.8	11.21	-35.69	-23.78	-14.17	8.05	0.96	41.87	31.23	33.14	33.12	3.53
7.0	11.14	-35.54	-23.39	-13.87	7.95	0.96	41.74	31.07	33.01	33.00	3.60
7.2	11.07	-35.32	-23.65	-13.67	7.80	0.96	41.56	30.87	32.86	32.85	3.65
7.4	10.99	-35.20	-24.88	-13.58	7.76	0.96	41.15	30.86	32.90	32.87	3.74
7.6	10.92	-35.04	-26.84	-13.58	7.69	0.95	40.94	30.75	32.80	32.78	3.77
7.8	10.86	-34.82	-27.31	-13.64	7.57	0.95	40.62	30.66	32.80	32.77	3.84
8.0	10.80	-34.57	-25.03	-13.65	7.40	0.95	40.51	30.50	32.66	32.64	3.91
8.2	10.76	-34.49	-22.00	-13.83	7.36	0.96	40.13	30.35	32.55	32.60	3.87
8.4	10.71	-34.19	-19.52	-13.94	7.13	0.96	40.12	30.26	32.45	32.49	4.07
8.6	10.64	-34.03	-17.73	-13.98	7.02	0.97	39.89	30.07	32.23	32.30	4.10
8.8	10.58	-33.76	-16.64	-14.03	6.82	0.98	39.72	30.15	32.26	32.27	4.20
9.0	10.50	-33.49	-16.23	-13.94	6.65	0.98	39.59	30.10	31.98	32.04	4.26
9.2	10.39	-33.30	-16.47	-13.73	6.57	0.98	39.43	30.13	31.98	32.03	4.33
9.4	10.24	-33.25	-17.54	-13.28	6.64	0.97	39.32	30.23	32.04	31.99	4.41
9.6	10.05	-32.97	-19.73	-12.60	6.56	0.95	38.81	30.26	31.98	31.88	4.53
9.8	9.82	-33.07	-24.02	-11.86	6.78	0.94	38.26	30.42	31.89	31.78	4.70
10.0	9.54	-33.18	-33.71	-11.19	7.04	0.92	37.73	30.37	31.67	31.56	4.89
10.5	8.73	-33.50	-17.91	-10.19	7.76	0.91	-	30.45	31.56	31.44	-
11.0	8.02	-33.78	-12.83	-10.42	8.40	0.95	-	29.64	30.83	30.70	-
11.5	7.55	-33.85	-12.66	-12.18	9.16	0.99	-	28.82	30.23	30.11	-
12.0	6.98	-33.98	-18.24	-14.96	10.65	0.98	-	28.29	29.69	29.60	-

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: $V_{DD} = +12\text{ V}$, $I_{DD} = 400\text{ mA}$ @ Temperature = $+25^\circ\text{C}$

Power	OIP2 (@1 GHz)	OIP2 (@4 GHz)	OIP2 (@8 GHz)
(dBm)	(dBm)	(dBm)	(dBm)
5.00	45.93	45.94	47.14
6.00	46.17	46.03	47.28
7.00	46.27	46.04	47.17
8.00	46.21	46.00	47.20
9.00	46.13	45.96	47.14
10.00	46.14	46.04	46.94
11.00	46.08	45.98	46.89
12.00	46.00	45.93	46.76
13.00	45.96	45.86	46.64
14.00	45.81	45.77	46.50
15.00	45.51	45.51	46.01
16.00	45.35	45.39	45.82
17.00	45.20	45.22	45.58
18.00	44.97	45.04	45.29
19.00	44.74	44.80	45.00
20.00	44.61	44.64	44.74
21.00	44.58	44.43	44.48
22.00	44.80	44.27	44.50
23.00	45.41	44.34	44.98
24.00	46.25	44.50	46.27
25.00	47.43	44.87	48.37
26.00	49.33	45.47	51.13
27.00	52.07	46.16	55.16

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: $V_{DD} = +12\text{ V}$, $I_{DD} = 400\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

Power	P _{OUT} (@1 GHz)	P _{OUT} (@4 GHz)	P _{OUT} (@8 GHz)	I _{DD} (@1 GHz)	I _{DD} (@4 GHz)	I _{DD} (@8 GHz)	P _{DISS} (@1 GHz)	P _{DISS} (@4 GHz)	P _{DISS} (@8 GHz)	PAE (@1 GHz)	PAE (@4 GHz)	PAE (@8 GHz)
(dBm)	(dBm)	(dBm)	(dBm)	mA	mA	mA	(dBm)	(dBm)	(dBm)	(%)	(%)	(%)
0.00	12.87	12.12	11.45	394.37	397.28	395.82	4.78	4.78	4.79	0.38	0.32	0.28
0.50	13.37	12.61	11.95	395.02	396.15	395.18	4.78	4.78	4.79	0.43	0.36	0.31
1.00	13.87	13.11	12.44	392.92	394.21	393.72	4.78	4.78	4.78	0.48	0.40	0.35
1.50	14.37	13.61	12.94	394.05	394.69	393.89	4.77	4.78	4.78	0.54	0.45	0.39
2.00	14.86	14.11	13.44	394.05	395.66	394.37	4.77	4.78	4.78	0.61	0.51	0.44
2.50	15.36	14.61	13.94	393.40	395.18	394.53	4.77	4.77	4.78	0.68	0.57	0.49
3.00	15.87	15.11	14.44	392.27	393.56	393.40	4.76	4.77	4.77	0.76	0.64	0.55
3.50	16.36	15.61	14.94	391.46	393.08	393.56	4.76	4.77	4.77	0.86	0.72	0.62
4.00	16.86	16.11	15.43	390.50	394.05	392.11	4.75	4.76	4.77	0.96	0.81	0.69
4.50	17.36	16.61	15.93	390.82	393.56	392.43	4.75	4.76	4.76	1.08	0.90	0.78
5.00	17.87	17.11	16.43	390.50	392.59	392.43	4.74	4.75	4.76	1.21	1.01	0.87
5.50	18.37	17.61	16.93	389.53	392.59	391.46	4.73	4.75	4.75	1.36	1.14	0.98
6.00	18.87	18.11	17.43	388.40	392.43	390.98	4.73	4.74	4.75	1.53	1.28	1.09
6.50	19.38	18.61	17.93	388.07	391.79	391.14	4.72	4.73	4.74	1.71	1.43	1.23
7.00	19.88	19.11	18.42	388.07	391.30	391.30	4.71	4.72	4.73	1.92	1.61	1.38
7.50	20.38	19.61	18.92	388.40	390.98	390.33	4.70	4.71	4.73	2.16	1.80	1.54
8.00	20.89	20.11	19.42	385.49	390.33	389.69	4.68	4.70	4.72	2.43	2.02	1.73
8.50	21.39	20.61	19.92	386.30	389.85	389.53	4.67	4.69	4.71	2.72	2.27	1.94
9.00	21.89	21.11	20.42	385.81	390.17	389.37	4.65	4.68	4.70	3.06	2.55	2.18
9.50	22.39	21.61	20.92	384.36	390.98	388.07	4.64	4.66	4.68	3.44	2.86	2.45
10.00	22.90	22.11	21.42	385.33	389.04	388.40	4.61	4.65	4.67	3.86	3.20	2.75
10.50	23.40	22.61	21.92	383.07	389.37	387.75	4.59	4.63	4.65	4.33	3.59	3.08
11.00	23.90	23.10	22.41	383.55	388.07	386.94	4.57	4.61	4.63	4.86	4.03	3.45
11.50	24.40	23.60	22.91	384.20	389.20	386.14	4.54	4.58	4.61	5.45	4.52	3.86
12.00	24.89	24.10	23.40	381.78	388.56	387.43	4.51	4.56	4.59	6.11	5.07	4.33
12.50	25.38	24.59	23.89	382.10	388.24	386.30	4.47	4.53	4.57	6.84	5.68	4.84
13.00	25.87	25.08	24.39	381.46	388.88	387.43	4.43	4.49	4.54	7.65	6.36	5.42
13.50	26.35	25.57	24.87	381.94	389.20	386.46	4.39	4.46	4.51	8.52	7.10	6.05
14.00	26.82	26.04	25.36	381.29	390.33	386.78	4.34	4.42	4.48	9.51	7.93	6.75
14.50	27.28	26.51	25.83	381.29	390.01	388.24	4.29	4.38	4.44	10.55	8.83	7.52
15.00	27.71	26.97	26.30	379.03	390.17	387.43	4.24	4.33	4.40	11.65	9.81	8.36
15.50	28.13	27.42	26.75	380.81	390.98	389.53	4.19	4.28	4.36	12.80	10.87	9.26
16.00	28.52	27.84	27.18	380.49	393.56	389.37	4.13	4.23	4.31	13.97	11.97	10.22
16.50	28.88	28.25	27.60	381.94	395.34	392.59	4.07	4.17	4.26	15.16	13.11	11.21
17.00	29.22	28.63	27.99	383.55	398.08	394.53	4.02	4.11	4.21	16.35	14.29	12.24
17.50	29.55	29.01	28.36	384.68	403.57	400.83	3.96	4.06	4.16	17.55	15.52	13.28
18.00	29.85	29.36	28.71	387.75	408.42	403.90	3.90	3.99	4.11	18.75	16.79	14.35
18.50	30.14	29.71	29.05	390.33	417.78	414.39	3.84	3.93	4.06	19.95	18.11	15.46
19.00	30.40	30.03	29.39	393.24	425.69	422.30	3.79	3.87	4.00	21.11	19.44	16.63
19.50	30.65	30.33	29.72	399.86	430.85	431.18	3.73	3.81	3.94	22.23	20.72	17.85
20.00	30.87	30.60	30.04	404.22	440.70	439.73	3.68	3.75	3.88	23.30	21.95	19.11
20.50	31.08	30.85	30.36	409.06	449.90	454.26	3.63	3.69	3.82	24.29	23.12	20.39
21.00	31.27	31.08	30.66	416.33	460.72	467.34	3.59	3.64	3.76	25.20	24.22	21.69
21.50	31.44	31.30	30.94	422.62	468.31	478.96	3.55	3.59	3.70	26.03	25.25	22.97
22.00	31.60	31.50	31.21	427.79	477.03	491.88	3.51	3.54	3.64	26.78	26.19	24.22
22.50	31.75	31.68	31.46	433.92	484.61	505.92	3.48	3.50	3.58	27.44	27.05	25.40
23.00	31.89	31.84	31.69	439.09	492.36	518.84	3.45	3.47	3.53	28.03	27.80	26.49
23.50	32.02	31.99	31.89	446.68	501.24	531.27	3.43	3.44	3.48	28.53	28.43	27.46
24.00	32.14	32.13	32.08	455.72	510.28	547.25	3.41	3.41	3.44	28.93	28.95	28.31
24.50	32.25	32.26	32.25	463.14	519.64	559.84	3.40	3.39	3.41	29.19	29.34	28.99
25.00	32.33	32.37	32.40	467.18	525.46	572.59	3.40	3.38	3.39	29.11	29.50	29.46

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +12\text{ V}$, $V_{G2} = +5\text{ V}$, $I_{DD} = 400\text{ mA}$ @ Temperature = $+25^\circ\text{C}$

FREQ	P _{IN}	Gain
(GHz)	(dBm)	(dB)
1.00	0.00	13.1
1.00	1.00	13.1
1.00	2.00	13.1
1.00	3.00	13.1
1.00	4.00	13.1
1.00	5.00	13.1
1.00	6.0	13.2
1.00	7.0	13.2
1.00	8.0	13.2
1.00	9.0	13.2
1.00	10.0	13.2
1.00	12.0	13.2
1.00	14.0	13.2
1.00	15.0	13.1
1.00	16.0	13.0
1.00	18.0	12.4
1.00	20.0	11.6
1.00	22.0	10.4
1.00	24.0	8.9
1.00	25.0	8.0
4.00	0.00	12.1
4.00	1.00	12.1
4.00	2.00	12.1
4.00	3.00	12.1
4.00	4.00	12.1
4.00	5.00	12.1
4.00	6.0	12.1
4.00	7.0	12.1
4.00	8.0	12.1
4.00	9.0	12.1
4.00	10.0	12.1
4.00	12.0	12.1
4.00	14.0	12.1
4.00	15.0	12.1
4.00	16.0	12.0
4.00	18.0	11.7
4.00	20.0	11.1
4.00	22.0	10.2
4.00	24.0	9.0
4.00	25.0	8.3
8.00	0.00	11.2
8.00	1.00	11.2
8.00	2.00	11.2
8.00	3.00	11.2
8.00	4.00	11.3
8.00	5.00	11.3
8.00	6.0	11.3
8.00	7.0	11.3
8.00	8.0	11.3
8.00	9.0	11.3
8.00	10.0	11.3
8.00	12.0	11.3
8.00	14.0	11.3
8.00	15.0	11.3
8.00	16.0	11.2
8.00	18.0	10.9
8.00	20.0	10.4
8.00	22.0	9.7
8.00	24.0	8.7
8.00	25.0	8.0

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +12\text{ V}$, $I_{DD} = 300\text{ mA}$, 400 mA , 500 mA @ Temperature = $+25^\circ\text{C}$

FREQ	Gain @ 300 mA	Gain @ 400 mA	Gain @ 500 mA	1dB Comp. Output @ 300 mA	1dB Comp. Output @ 400 mA	1dB Comp. Output @ 500 mA	Psat Output @ 300 mA	Psat Output @ 400 mA	Psat Output @ 500 mA	Noise Figure @ 300 mA	Noise Figure @ 400 mA	Noise Figure @ 500 mA
(GHz)	(dB)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)	(dB)	(dB)
0.01	17.5	17.9	18.2	27.23	28.07	28.61	32.10	32.31	32.54	28.60	28.68	28.83
0.2	14.7	15.1	15.4	28.15	29.09	29.68	31.59	31.69	31.85	11.03	11.04	11.11
0.4	13.8	14.2	14.5	28.48	29.39	30.03	31.65	31.73	31.88	7.50	7.56	7.62
0.6	13.1	13.5	13.8	28.78	29.78	30.21	30.93	31.07	31.16	6.41	6.52	6.55
0.8	12.7	13.1	13.4	29.10	30.20	30.65	32.02	32.17	32.25	5.46	5.54	5.64
1.0	12.4	12.8	13.1	29.45	30.63	31.05	32.86	33.04	33.11	4.99	5.09	5.21
1.2	12.4	12.8	13.1	29.53	30.72	31.14	32.76	32.95	33.02	4.63	4.71	4.82
1.4	12.2	12.6	12.9	29.59	30.71	31.11	32.83	33.02	33.08	4.51	4.58	4.70
1.6	12.1	12.5	12.8	29.57	30.60	31.00	32.38	32.56	32.63	4.32	4.41	4.52
1.8	12.0	12.4	12.7	29.50	30.50	30.89	32.19	32.36	32.43	3.87	3.95	4.09
2.0	11.9	12.3	12.6	29.50	30.48	30.85	32.16	32.35	32.43	3.63	3.74	3.93
2.2	11.9	12.3	12.6	29.47	30.39	30.76	32.03	32.20	32.28	3.33	3.44	3.58
2.4	11.9	12.2	12.5	29.62	30.53	30.89	32.14	32.32	32.41	3.28	3.40	3.55
2.6	11.8	12.2	12.5	29.76	30.72	31.09	32.29	32.49	32.58	3.13	3.24	3.40
2.8	11.8	12.2	12.5	29.87	30.86	31.21	32.61	32.80	32.89	2.86	2.97	3.15
3.0	11.8	12.2	12.5	29.98	31.01	31.36	32.68	32.89	32.99	2.78	2.87	3.04
3.2	11.8	12.2	12.5	29.99	31.06	31.40	32.70	32.92	33.02	2.68	2.80	2.97
3.4	11.8	12.2	12.5	29.87	30.97	31.31	32.68	32.88	32.96	2.62	2.74	2.91
3.6	11.8	12.2	12.5	29.96	31.14	31.47	32.93	33.14	33.22	2.57	2.72	2.86
3.8	11.8	12.1	12.5	29.90	31.07	31.41	32.91	33.11	33.18	2.65	2.79	2.96
4.0	11.7	12.1	12.4	29.92	31.15	31.47	33.01	33.23	33.29	2.66	2.76	2.93
4.2	11.6	12.0	12.4	29.91	31.13	31.43	32.99	33.20	33.25	2.72	2.80	3.01
4.4	11.6	12.0	12.3	29.89	31.08	31.40	32.93	33.11	33.17	2.77	2.90	3.05
4.6	11.6	12.0	12.3	29.89	31.08	31.42	33.03	33.24	33.29	2.65	2.77	2.91
4.8	11.5	11.9	12.2	29.84	31.05	31.39	32.90	33.11	33.17	2.63	2.75	2.93
5.0	11.5	11.9	12.2	29.83	31.08	31.43	32.88	33.09	33.16	2.72	2.83	3.03
5.2	11.5	11.9	12.3	29.81	31.05	31.40	32.80	33.03	33.11	2.64	2.77	2.88
5.4	11.6	12.0	12.3	29.92	31.18	31.54	32.88	33.13	33.22	2.62	2.77	2.90
5.6	11.6	12.0	12.3	29.91	31.18	31.56	32.87	33.13	33.21	2.61	2.72	2.92
5.8	11.6	12.0	12.3	29.88	31.20	31.56	33.01	33.27	33.36	2.63	2.78	2.92
6.0	11.6	12.0	12.3	29.76	31.16	31.55	33.01	33.27	33.37	2.64	2.89	2.97
6.2	11.6	12.0	12.3	29.67	31.12	31.53	33.03	33.29	33.39	2.65	2.79	2.98
6.4	11.5	12.0	12.3	29.57	31.10	31.51	32.92	33.18	33.28	2.74	2.82	3.02
6.6	11.5	11.9	12.2	29.58	31.17	31.57	33.24	33.49	33.58	2.78	2.87	3.05
6.8	11.4	11.8	12.2	29.49	31.13	31.51	33.14	33.36	33.43	2.81	2.93	3.07
7.0	11.4	11.8	12.1	29.37	31.08	31.46	32.99	33.20	33.27	2.89	2.97	3.13
7.2	11.3	11.7	12.1	29.31	31.04	31.41	32.99	33.18	33.23	2.96	3.06	3.23
7.4	11.2	11.6	12.0	29.23	30.99	31.36	32.90	33.09	33.16	2.99	3.09	3.29
7.6	11.1	11.6	11.9	29.09	30.96	31.31	32.98	33.16	33.22	3.06	3.19	3.33
7.8	11.1	11.5	11.8	29.02	30.90	31.23	32.83	33.03	33.09	3.12	3.23	3.38
8.0	11.0	11.4	11.8	28.94	30.75	31.10	32.80	32.98	33.05	3.18	3.27	3.46
8.2	10.9	11.4	11.8	28.81	30.60	30.95	32.65	32.84	32.90	3.21	3.34	3.49
8.4	10.9	11.3	11.7	28.79	30.50	30.86	32.72	32.90	32.96	3.24	3.39	3.53
8.6	10.8	11.3	11.6	28.63	30.38	30.76	32.32	32.49	32.55	3.28	3.37	3.56
8.8	10.8	11.2	11.6	28.76	30.42	30.76	32.63	32.79	32.84	3.25	3.43	3.55
9.0	10.7	11.1	11.5	28.92	30.44	30.75	32.39	32.54	32.59	3.41	3.49	3.66
9.2	10.6	11.1	11.5	28.95	30.39	30.69	32.22	32.43	32.48	3.52	3.63	3.78
9.4	10.5	11.0	11.4	29.02	30.31	30.59	31.74	31.97	32.07	3.62	3.73	3.86
9.6	10.3	10.8	11.2	29.15	30.32	30.59	31.29	31.63	31.74	3.66	3.75	3.92
9.8	10.1	10.6	11.0	29.38	30.38	30.57	30.95	31.29	31.46	3.78	3.92	4.08
10.0	9.9	10.4	10.8	29.64	30.44	30.58	30.69	31.12	31.31	3.97	4.08	4.27
10.5	9.0	9.5	9.9	30.16	30.56	30.55	28.88	29.41	29.72	-	-	-
11.0	8.2	8.7	9.1	29.92	30.11	29.97	26.48	27.34	27.75	-	-	-
11.5	7.6	8.2	8.6	28.33	28.61	28.54	20.63	21.65	22.25	-	-	-
12.0	7.1	7.6	8.1	27.99	27.95	27.77	20.23	21.19	21.91	-	-	-

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +12\text{ V}$, $V_{G2} = +5\text{ V}$, $I_{DD} = 400\text{ mA}$ @ Temperature = $+25^\circ\text{C}$

FREQ	P _{OUT}	2nd Harmonics	FREQ	P _{OUT}	3rd Harmonics
(GHz)	(dBm)	(dB)	(GHz)	(dBm)	(dB)
2.00	5.00	-47.1	2.00	5.00	-90.4
2.00	6.0	-46.2	2.00	6.0	-92.1
2.00	7.0	-45.2	2.00	7.0	-92.0
2.00	8.0	-44.1	2.00	8.0	-91.0
2.00	9.0	-43.2	2.00	9.0	-89.8
2.00	10.0	-42.2	2.00	10.0	-88.2
2.00	12.0	-40.2	2.00	12.0	-81.3
2.00	14.0	-38.0	2.00	14.0	-76.2
2.00	15.0	-36.9	2.00	15.0	-74.0
2.00	16.0	-35.8	2.00	16.0	-71.8
2.00	18.0	-33.6	2.00	18.0	-66.8
2.00	20.0	-31.3	2.00	20.0	-61.6
2.00	22.0	-28.9	2.00	22.0	-56.2
2.00	24.0	-26.4	2.00	24.0	-51.9
4.00	5.00	-45.2	4.00	5.00	-82.7
4.00	6.0	-44.0	4.00	6.0	-80.8
4.00	7.0	-43.2	4.00	7.0	-78.8
4.00	8.0	-42.1	4.00	8.0	-76.8
4.00	9.0	-41.1	4.00	9.0	-75.1
4.00	10.0	-40.0	4.00	10.0	-72.9
4.00	12.0	-38.1	4.00	12.0	-68.1
4.00	14.0	-36.0	4.00	14.0	-63.9
4.00	15.0	-34.9	4.00	15.0	-61.7
4.00	16.0	-33.9	4.00	16.0	-59.7
4.00	18.0	-31.7	4.00	18.0	-55.1
4.00	20.0	-29.4	4.00	20.0	-50.9
4.00	22.0	-26.9	4.00	22.0	-46.4
4.00	24.0	-24.5	4.00	24.0	-41.8
6.00	5.00	-44.5	6.00	5.00	-87.0
6.00	6.0	-43.6	6.00	6.0	-85.3
6.00	7.0	-42.5	6.00	7.0	-84.1
6.00	8.0	-41.6	6.00	8.0	-82.2
6.00	9.0	-40.5	6.00	9.0	-80.6
6.00	10.0	-39.5	6.00	10.0	-77.9
6.00	12.0	-37.7	6.00	12.0	-75.3
6.00	14.0	-35.6	6.00	14.0	-71.3
6.00	15.0	-34.6	6.00	15.0	-69.2
6.00	16.0	-33.5	6.00	16.0	-67.1
6.00	18.0	-31.3	6.00	18.0	-62.6
6.00	20.0	-29.1	6.00	20.0	-58.3
6.00	22.0	-26.8	6.00	22.0	-53.1
6.00	24.0	-24.3	6.00	24.0	-48.3
8.00	5.00	-48.8	8.00	5.00	-96.8
8.00	6.0	-47.9	8.00	6.0	-102.6
8.00	7.0	-47.1	8.00	7.0	-97.0
8.00	8.0	-46.0	8.00	8.0	-97.3
8.00	9.0	-45.0	8.00	9.0	-100.7
8.00	10.0	-43.9	8.00	10.0	-98.7
8.00	12.0	-42.2	8.00	12.0	-93.6
8.00	14.0	-40.1	8.00	14.0	-93.5
8.00	15.0	-39.1	8.00	15.0	-93.5
8.00	16.0	-37.9	8.00	16.0	-90.6
8.00	18.0	-35.7	8.00	18.0	-84.6
8.00	20.0	-33.4	8.00	20.0	-80.0
8.00	22.0	-31.0	8.00	22.0	-78.6
8.00	24.0	-28.5	8.00	24.0	-71.3
10.00	5.00	-55.3			
10.00	6.0	-54.3			
10.00	7.0	-53.5			
10.00	8.0	-52.3			
10.00	9.0	-51.1			
10.00	10.0	-50.3			
10.00	12.0	-48.2			
10.00	14.0	-46.1			
10.00	15.0	-45.1			
10.00	16.0	-44.1			
10.00	18.0	-41.8			
10.00	20.0	-39.4			
10.00	22.0	-37.0			
10.00	24.0	-34.5			