

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required

Definitions:

- Input Return Loss = S11 (dB)
- Gain(Power Gain) = S21 (dB)
- Reverse Isolation = S12 (dB)
- Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +7V$, $I_{DD} = 1250\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	IP-3 Output	IM3 Output	1dB Comp. Output	Psat Output	Noise Figure	2nd Harmonics	3rd Harmonics
(GHz)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBc)	(dBm)	(dBm)	(dB)	(dBc)	(dBc)
7.0	25.5	-62.56	-19.79	-8.00	35.69	-30.99	31.17	32.44	10.76	-14.46	-58.66
7.1	25.7	-63.15	-20.18	-7.36	36.80	-33.21	31.69	32.77	10.32	-13.26	-57.96
7.2	25.8	-63.38	-20.43	-7.04	37.82	-35.24	32.18	33.17	10.01	-12.52	-59.26
7.3	26.0	-63.74	-20.69	-6.93	38.76	-37.15	32.57	33.54	9.86	-13.29	-59.58
7.4	26.2	-63.93	-20.88	-6.99	39.43	-38.47	32.86	33.76	9.66	-14.04	-59.89
7.5	26.4	-62.70	-20.71	-7.15	39.97	-39.55	33.14	33.99	9.36	-14.79	-60.84
7.6	26.6	-62.01	-20.76	-7.31	40.57	-40.76	33.39	34.17	9.18	-14.89	-60.84
7.7	26.8	-64.15	-21.36	-7.74	41.08	-41.79	33.47	34.32	9.11	-15.64	-62.61
7.8	27.1	-65.37	-20.61	-8.27	41.33	-42.29	33.40	34.30	8.97	-17.45	-66.38
7.9	27.4	-66.61	-19.55	-8.88	41.57	-42.78	33.41	34.33	8.84	-19.79	-76.39
8.0	27.7	-66.25	-18.43	-9.48	41.76	-43.19	33.50	34.41	8.66	-21.21	-66.74
8.1	28.0	-65.24	-17.37	-10.08	41.93	-43.56	33.75	34.61	8.57	-20.83	-59.07
8.2	28.3	-64.82	-16.32	-10.62	42.14	-43.97	34.02	34.84	8.53	-21.87	-57.66
8.3	28.5	-64.44	-15.47	-11.17	42.28	-44.24	34.18	34.98	8.43	-23.50	-58.73
8.4	28.7	-64.26	-14.73	-11.71	42.44	-44.55	34.25	34.99	8.30	-26.95	-58.27
8.5	28.8	-64.37	-14.17	-12.14	42.72	-45.15	34.25	34.93	8.18	-28.03	-59.57
8.6	28.9	-63.55	-13.80	-12.50	43.09	-45.82	34.45	35.10	8.13	-28.77	-60.73
8.7	29.0	-63.45	-13.48	-12.81	43.15	-45.96	34.94	35.58	8.05	-31.76	-60.20
8.8	29.0	-63.95	-13.25	-13.18	43.21	-46.07	35.20	35.89	7.93	-36.93	-61.09
8.9	29.0	-63.82	-13.17	-13.58	43.15	-45.91	35.34	36.07	7.83	-41.69	-60.11
9.0	29.0	-63.52	-13.14	-14.08	43.30	-46.20	35.24	36.06	7.72	-41.40	-59.95
9.1	29.0	-62.54	-13.16	-14.74	43.50	-46.60	35.08	35.96	7.69	-41.23	-61.44
9.2	29.0	-61.95	-13.22	-15.52	43.35	-46.31	34.93	35.91	7.57	-40.80	-60.82
9.3	29.0	-61.04	-13.45	-16.36	43.18	-45.98	34.78	35.91	7.47	-41.27	-62.30
9.4	29.0	-61.07	-13.73	-17.33	42.97	-45.55	34.72	35.97	7.39	-41.47	-62.61
9.5	28.9	-60.88	-13.86	-18.55	43.13	-45.87	34.62	35.86	7.31	-42.88	-63.05
9.6	28.8	-61.60	-13.79	-20.15	43.50	-46.64	34.53	35.72	7.25	-44.06	-62.42
9.7	28.7	-62.03	-13.64	-22.27	43.72	-47.10	34.43	35.67	7.15	-47.48	-62.79
9.8	28.6	-61.64	-13.40	-24.81	43.82	-47.26	34.40	35.69	7.06	-49.92	-57.67
9.9	28.4	-62.42	-13.11	-27.55	43.64	-46.89	34.43	35.76	6.98	-51.66	-60.15
10.0	28.3	-63.59	-12.80	-28.59	43.75	-47.11	34.41	35.70	6.87	-54.82	-59.91
10.1	28.2	-65.29	-12.30	-26.75	43.92	-47.43	34.44	35.71	6.85	-55.83	-53.55
10.2	28.0	-64.97	-11.80	-24.27	44.05	-47.68	34.35	35.63	6.76	-56.11	-62.55
10.3	27.9	-64.66	-11.43	-22.01	43.96	-47.49	34.32	35.62	6.69	-55.30	-62.67
10.4	27.9	-62.85	-11.10	-20.11	43.85	-47.28	34.42	35.80	6.64	-57.90	-54.99
10.5	27.9	-61.76	-10.77	-18.69	43.69	-46.96	34.44	35.84	6.60	-59.45	-52.81
10.6	28.0	-61.27	-10.44	-17.33	43.60	-46.77	34.36	35.81	6.50	-57.07	-60.02
10.7	28.0	-60.41	-10.22	-16.13	43.43	-46.42	34.26	35.71	6.46	-56.10	-56.66
10.8	28.1	-59.89	-9.98	-15.12	43.34	-46.23	34.25	35.72	6.42	-56.81	-57.60
10.9	28.2	-59.24	-9.78	-14.15	43.15	-45.85	34.29	35.82	6.32	-58.16	-57.12
11.0	28.3	-59.15	-9.76	-13.23	42.96	-45.45	34.35	35.93	6.28	-57.78	-52.62
11.1	28.3	-59.16	-9.87	-12.32	42.85	-45.24	34.25	35.77	6.27	-55.52	-48.58
11.2	28.3	-58.81	-10.04	-11.51	42.76	-45.05	34.16	35.70	6.26	-53.84	-51.57
11.3	28.4	-58.61	-10.27	-10.79	42.65	-44.83	33.96	35.54	6.25	-54.25	-54.78
11.4	28.4	-58.63	-10.60	-10.18	42.37	-44.26	33.93	35.65	6.20	-55.10	-50.62
11.5	28.4	-58.27	-10.99	-9.62	42.09	-43.70	34.02	35.75	6.16	-54.02	-51.61
11.6	28.4	-58.03	-11.36	-9.11	41.90	-43.32	34.06	35.75	6.17	-54.57	-51.29
11.7	28.4	-57.75	-11.67	-8.68	41.88	-43.28	33.96	35.64	6.15	-57.52	-45.21
11.8	28.5	-57.64	-11.88	-8.30	41.82	-43.15	33.75	35.48	6.14	-62.06	-46.06
11.9	28.6	-57.35	-12.07	-7.99	41.42	-42.36	33.65	35.63	6.07	-64.66	-49.14
12.0	28.7	-56.55	-12.31	-7.77	40.82	-41.13	33.55	35.75	6.12	-55.88	-49.19
12.1	28.9	-56.16	-12.54	-7.58	40.28	-40.05	33.61	36.00	6.18	-50.56	-51.25
12.2	29.1	-55.58	-12.50	-7.46	40.06	-39.61	33.62	36.00	6.17	-49.81	-47.05
12.3	29.2	-55.72	-12.26	-7.42	40.02	-39.52	33.27	35.75	6.16	-50.92	-53.86
12.4	29.4	-55.85	-11.97	-7.56	39.73	-38.94	32.83	35.37	6.12	-52.54	-46.46
12.5	29.5	-56.60	-11.53	-7.91	39.04	-37.54	32.55	35.28	6.19	-53.91	-49.00
12.6	29.6	-57.04	-11.05	-8.50	38.39	-36.25	32.39	35.18	6.17	-55.15	-47.46
12.7	29.6	-58.15	-10.47	-9.44	38.23	-35.94	32.61	35.13	6.18	-55.90	-54.40
12.8	29.4	-58.51	-9.96	-10.80	38.44	-36.39	32.90	34.79	6.21	-56.33	-48.77
12.9	29.2	-59.23	-9.53	-12.73	38.73	-36.99	33.39	34.45	6.22	-56.95	-51.05
13.0	28.8	-59.76	-9.21	-15.57	38.52	-36.57	33.73	34.12	6.27	-57.70	-49.03

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Definitions:

- Input Return Loss = S11 (dB)
- Gain(Power Gain) = S21 (dB)
- Reverse Isolation = S12 (dB)
- Output Return Loss = S22 (dB)

TEST CONDITIONS: V_{DD} = +6 V, I_{DD} = 1250 mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	IP-3 Output	IM3 Output	1dB Comp. Output	Psat Output	Noise Figure	2nd Harmonics	3rd Harmonics
(GHz)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBc)	(dBm)	(dBm)	(dB)	(dBc)	(dBc)
7.0	25.9	-62.41	-19.04	-7.96	35.99	-31.63	29.99	31.45	10.53	-11.95	-56.46
7.1	26.0	-62.54	-19.50	-7.30	36.98	-33.63	30.48	31.76	10.11	-11.11	-56.93
7.2	26.2	-62.63	-19.94	-6.96	37.84	-35.35	30.94	32.16	9.79	-10.61	-58.79
7.3	26.4	-63.03	-20.48	-6.81	38.68	-37.04	31.28	32.47	9.65	-11.47	-59.25
7.4	26.6	-63.45	-20.85	-6.85	39.18	-38.05	31.52	32.67	9.47	-12.18	-59.47
7.5	26.9	-63.92	-21.09	-7.02	39.57	-38.80	31.79	32.88	9.19	-12.96	-60.48
7.6	27.1	-63.04	-21.09	-7.24	40.04	-39.76	32.07	33.06	9.00	-13.19	-60.57
7.7	27.2	-63.62	-21.53	-7.55	40.46	-40.59	32.18	33.21	8.93	-13.95	-62.21
7.8	27.5	-64.18	-21.01	-8.07	40.69	-41.04	32.12	33.19	8.78	-15.54	-65.88
7.9	27.8	-64.13	-19.95	-8.61	40.86	-41.41	32.14	33.20	8.66	-17.50	-76.49
8.0	28.1	-64.04	-18.75	-9.22	40.96	-41.62	32.23	33.28	8.46	-18.61	-66.90
8.1	28.4	-64.08	-17.49	-9.87	41.05	-41.79	32.50	33.48	8.38	-18.24	-58.78
8.2	28.6	-64.70	-16.36	-10.49	41.20	-42.11	32.78	33.68	8.35	-19.14	-57.52
8.3	28.8	-65.28	-15.44	-10.99	41.31	-42.31	32.97	33.81	8.25	-20.06	-58.53
8.4	29.0	-64.90	-14.74	-11.36	41.44	-42.56	33.04	33.84	8.11	-22.35	-58.02
8.5	29.1	-64.11	-14.26	-11.74	41.69	-43.06	33.03	33.80	8.00	-23.03	-59.81
8.6	29.1	-63.06	-13.74	-12.14	42.07	-43.80	33.24	33.98	7.97	-23.95	-61.23
8.7	29.2	-62.65	-13.32	-12.36	42.29	-44.23	33.77	34.51	7.88	-26.66	-60.14
8.8	29.2	-62.85	-13.07	-12.44	42.53	-44.69	34.12	34.89	7.76	-31.20	-60.58
8.9	29.3	-63.20	-13.02	-12.65	42.63	-44.92	34.35	35.12	7.66	-36.73	-59.87
9.0	29.3	-63.94	-13.08	-13.06	42.85	-45.35	34.27	35.12	7.56	-39.98	-59.45
9.1	29.3	-64.52	-13.16	-13.77	43.09	-45.79	34.13	35.05	7.52	-44.00	-60.72
9.2	29.2	-64.66	-13.26	-14.58	42.98	-45.54	34.07	35.06	7.40	-47.47	-60.93
9.3	29.2	-64.52	-13.42	-15.42	42.85	-45.34	34.03	35.08	7.31	-50.33	-61.65
9.4	29.1	-63.91	-13.43	-16.41	42.69	-45.04	34.05	35.14	7.23	-46.63	-61.51
9.5	29.0	-63.27	-13.29	-17.55	42.86	-45.38	33.90	35.02	7.16	-47.20	-63.66
9.6	29.0	-62.75	-13.19	-19.07	43.20	-46.05	33.70	34.85	7.08	-48.73	-61.37
9.7	28.9	-62.95	-13.26	-21.37	43.40	-46.49	33.57	34.75	6.99	-54.08	-63.04
9.8	28.9	-63.89	-13.25	-24.34	43.49	-46.65	33.54	34.81	6.91	-53.49	-57.33
9.9	28.7	-65.03	-13.06	-28.01	43.34	-46.33	33.58	34.89	6.82	-51.07	-62.23
10.0	28.5	-64.64	-12.64	-32.46	43.49	-46.61	33.51	34.82	6.72	-56.27	-60.98
10.1	28.3	-63.21	-12.04	-32.47	43.68	-47.00	33.46	34.75	6.71	-58.23	-54.36
10.2	28.2	-62.12	-11.48	-27.24	43.82	-47.27	33.33	34.63	6.61	-59.71	-64.04
10.3	28.1	-61.34	-11.04	-23.28	43.73	-47.09	33.30	34.61	6.54	-59.52	-62.44
10.4	28.0	-60.73	-10.65	-20.55	43.65	-46.92	33.41	34.76	6.48	-62.53	-56.14
10.5	28.0	-60.11	-10.28	-18.62	43.51	-46.64	33.43	34.79	6.43	-65.81	-54.65
10.6	28.1	-59.76	-9.96	-17.16	43.45	-46.52	33.34	34.74	6.33	-60.59	-57.73
10.7	28.1	-59.37	-9.71	-15.90	43.27	-46.15	33.26	34.65	6.30	-58.82	-58.05
10.8	28.2	-58.88	-9.53	-14.74	43.19	-45.97	33.24	34.65	6.26	-60.46	-59.20
10.9	28.3	-58.47	-9.43	-13.70	43.02	-45.62	33.28	34.76	6.17	-61.60	-58.16
11.0	28.4	-58.16	-9.45	-12.78	42.83	-45.24	33.35	34.86	6.13	-60.86	-54.95
11.1	28.4	-58.11	-9.60	-11.93	42.68	-44.94	33.24	34.72	6.14	-57.23	-49.83
11.2	28.4	-58.25	-9.85	-11.11	42.56	-44.70	33.14	34.65	6.12	-55.46	-51.88
11.3	28.4	-58.27	-10.17	-10.39	42.43	-44.44	32.98	34.48	6.08	-55.99	-55.60
11.4	28.5	-58.16	-10.50	-9.77	42.16	-43.88	33.01	34.58	6.03	-56.53	-51.17
11.5	28.5	-57.78	-10.80	-9.21	41.90	-43.35	33.10	34.66	5.98	-55.01	-52.00
11.6	28.5	-56.81	-11.04	-8.79	41.68	-42.90	33.13	34.66	6.01	-55.19	-51.85
11.7	28.6	-55.93	-11.35	-8.44	41.62	-42.78	33.03	34.57	6.01	-57.56	-45.70
11.8	28.7	-55.47	-11.73	-8.08	41.51	-42.56	32.86	34.50	5.96	-60.90	-46.46
11.9	28.8	-55.44	-12.20	-7.73	41.11	-41.76	32.92	34.68	5.91	-66.88	-49.37
12.0	28.9	-55.29	-12.79	-7.43	40.52	-40.54	32.96	34.83	5.97	-58.75	-50.60
12.1	29.0	-54.94	-13.21	-7.22	40.00	-39.48	33.10	35.06	6.00	-51.65	-51.31
12.2	29.2	-54.93	-13.44	-7.10	39.75	-39.00	33.12	35.17	6.01	-50.26	-48.53
12.3	29.4	-55.03	-13.41	-7.09	39.64	-38.78	32.85	34.97	5.98	-51.03	-55.03
12.4	29.6	-55.65	-13.11	-7.24	39.29	-38.08	32.52	34.78	5.96	-51.99	-47.03
12.5	29.8	-56.57	-12.60	-7.60	38.58	-36.64	32.40	34.78	6.04	-53.35	-49.28
12.6	29.9	-57.73	-11.98	-8.24	37.93	-35.33	32.33	34.74	5.99	-53.87	-47.77
12.7	29.9	-58.30	-11.39	-9.22	37.74	-34.98	32.52	34.64	6.01	-54.83	-54.74
12.8	29.8	-58.71	-10.76	-10.66	37.86	-35.25	32.65	34.32	6.05	-55.31	-49.44
12.9	29.6	-58.93	-10.21	-12.65	38.01	-35.55	32.88	33.92	6.06	-55.75	-51.16
13.0	29.1	-59.27	-9.68	-15.57	37.74	-35.02	33.15	33.60	6.11	-56.48	-45.56

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TEST CONDITIONS: $V_{DD} = +8\text{ V}$, $I_{DD} = 1250\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	IP-3 Output	IM3 Output	1dB Comp. Output	Psat Output	Noise Figure	2nd Harmonics	3rd Harmonics
(GHz)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBc)	(dBm)	(dBm)	(dB)	(dBc)	(dBc)
7.0	23.4	-63.16	-19.90	-9.13	35.80	-31.16	32.24	33.10	10.98	-17.41	-61.14
7.1	23.6	-63.39	-20.53	-8.50	36.97	-33.49	32.83	33.51	10.54	-15.86	-59.50
7.2	23.9	-63.65	-21.15	-8.20	38.04	-35.65	33.40	33.94	10.23	-14.94	-60.43
7.3	24.1	-64.19	-21.89	-8.11	39.03	-37.63	33.83	34.24	10.06	-15.73	-60.75
7.4	24.4	-64.89	-22.45	-8.24	39.74	-39.04	34.11	34.50	9.85	-16.59	-61.06
7.5	24.7	-65.31	-22.80	-8.52	40.32	-40.20	34.40	34.78	9.55	-17.38	-61.95
7.6	25.0	-63.56	-22.63	-8.88	40.92	-41.40	34.69	34.98	9.38	-17.35	-61.66
7.7	25.2	-64.23	-22.73	-9.32	41.41	-42.39	34.84	35.21	9.30	-18.11	-63.46
7.8	25.6	-64.97	-21.93	-10.03	41.64	-42.88	34.81	35.24	9.13	-20.26	-66.59
7.9	25.9	-64.68	-20.66	-10.79	41.86	-43.30	34.80	35.25	9.02	-23.31	-79.59
8.0	26.3	-64.62	-19.30	-11.61	42.03	-43.68	34.84	35.30	8.83	-25.14	-69.03
8.1	26.6	-65.00	-17.96	-12.42	42.18	-43.97	35.06	35.48	8.75	-24.59	-61.16
8.2	26.9	-65.52	-16.76	-13.09	42.34	-44.30	35.32	35.73	8.69	-25.94	-59.27
8.3	27.1	-65.72	-15.78	-13.47	42.44	-44.53	35.49	35.89	8.59	-29.32	-60.75
8.4	27.3	-65.34	-15.03	-13.59	42.57	-44.77	35.53	35.87	8.46	-36.73	-60.17
8.5	27.4	-64.22	-14.49	-13.61	42.80	-45.24	35.49	35.77	8.34	-38.78	-61.24
8.6	27.5	-63.23	-13.95	-13.54	43.05	-45.73	35.66	35.98	8.29	-38.39	-62.33
8.7	27.6	-62.82	-13.50	-13.26	42.99	-45.59	36.11	36.41	8.22	-43.20	-62.40
8.8	27.6	-63.25	-13.22	-12.94	42.94	-45.49	36.29	36.64	8.09	-50.79	-64.50
8.9	27.7	-63.67	-13.12	-12.81	42.82	-45.23	36.36	36.72	7.99	-49.19	-62.28
9.0	27.7	-64.20	-13.11	-12.87	42.94	-45.45	36.25	36.65	7.89	-44.34	-62.25
9.1	27.6	-64.87	-13.12	-13.13	43.12	-45.81	36.13	36.58	7.84	-40.37	-62.17
9.2	27.6	-64.47	-13.16	-13.40	43.00	-45.57	35.95	36.51	7.73	-38.63	-61.72
9.3	27.6	-64.21	-13.25	-13.66	42.86	-45.29	35.76	36.46	7.64	-38.26	-62.71
9.4	27.5	-63.50	-13.21	-14.03	42.66	-44.88	35.63	36.46	7.54	-38.03	-62.81
9.5	27.4	-62.93	-13.05	-14.50	42.78	-45.13	35.52	36.34	7.45	-39.07	-63.37
9.6	27.4	-62.37	-12.94	-15.19	43.12	-45.83	35.50	36.27	7.41	-40.54	-61.59
9.7	27.4	-62.37	-12.98	-16.17	43.35	-46.28	35.45	36.28	7.31	-43.99	-61.99
9.8	27.3	-62.94	-12.96	-17.26	43.45	-46.47	35.47	36.33	7.23	-47.46	-56.72
9.9	27.3	-63.51	-12.82	-18.47	43.28	-46.12	35.53	36.41	7.13	-48.44	-61.14
10.0	27.1	-62.60	-12.50	-20.01	43.36	-46.28	35.52	36.37	7.02	-52.26	-59.04
10.1	27.0	-61.56	-12.02	-21.97	43.50	-46.55	35.54	36.32	7.03	-53.58	-53.25
10.2	27.0	-60.68	-11.54	-24.51	43.63	-46.80	35.46	36.25	6.91	-53.69	-61.93
10.3	26.9	-60.17	-11.16	-26.43	43.56	-46.66	35.45	36.26	6.85	-52.73	-63.88
10.4	26.9	-59.66	-10.81	-24.89	43.46	-46.45	35.61	36.51	6.79	-54.94	-54.80
10.5	27.0	-59.22	-10.48	-22.15	43.31	-46.15	35.68	36.56	6.76	-55.70	-52.02
10.6	27.0	-59.08	-10.19	-19.64	43.23	-45.97	35.59	36.54	6.65	-55.50	-57.01
10.7	27.1	-58.87	-9.96	-17.49	43.08	-45.69	35.48	36.45	6.62	-54.14	-56.09
10.8	27.2	-58.62	-9.81	-15.68	43.00	-45.53	35.49	36.45	6.57	-54.74	-57.17
10.9	27.2	-58.27	-9.75	-14.19	42.84	-45.20	35.57	36.56	6.48	-56.01	-56.07
11.0	27.3	-58.14	-9.80	-12.95	42.67	-44.86	35.69	36.69	6.43	-55.18	-52.16
11.1	27.3	-58.33	-9.98	-11.86	42.59	-44.69	35.57	36.54	6.45	-53.96	-48.52
11.2	27.3	-58.54	-10.26	-10.93	42.52	-44.56	35.49	36.42	6.42	-52.60	-51.31
11.3	27.3	-58.64	-10.60	-10.18	42.45	-44.42	35.26	36.20	6.41	-53.43	-54.55
11.4	27.3	-58.55	-10.95	-9.55	42.19	-43.87	35.29	36.26	6.36	-53.93	-50.10
11.5	27.3	-58.20	-11.25	-9.01	41.94	-43.37	35.46	36.39	6.31	-53.39	-50.51
11.6	27.3	-57.15	-11.52	-8.62	41.77	-43.04	35.52	36.44	6.34	-54.04	-50.67
11.7	27.3	-56.21	-11.85	-8.29	41.79	-43.08	35.36	36.29	6.31	-56.50	-44.35
11.8	27.3	-55.80	-12.24	-7.95	41.77	-43.03	35.08	36.10	6.30	-61.20	-44.94
11.9	27.4	-55.77	-12.69	-7.63	41.40	-42.27	35.04	36.18	6.24	-63.62	-48.36
12.0	27.4	-55.64	-13.21	-7.39	40.83	-41.13	35.05	36.26	6.29	-55.54	-48.82
12.1	27.5	-55.40	-13.54	-7.22	40.31	-40.08	35.30	36.49	6.34	-51.03	-51.75
12.2	27.6	-55.35	-13.68	-7.14	40.13	-39.76	35.17	36.47	6.35	-50.63	-46.99
12.3	27.8	-55.55	-13.55	-7.15	40.14	-39.76	34.49	36.15	6.31	-51.03	-52.78
12.4	27.9	-56.16	-13.19	-7.30	39.91	-39.29	33.88	35.70	6.28	-50.83	-46.67
12.5	28.1	-57.06	-12.64	-7.62	39.26	-37.98	33.60	35.53	6.36	-53.78	-48.89
12.6	28.2	-58.02	-12.00	-8.14	38.66	-36.77	33.38	35.44	6.34	-55.23	-47.45
12.7	28.2	-58.50	-11.39	-8.88	38.52	-36.50	33.56	35.34	6.34	-56.06	-54.30
12.8	28.1	-58.72	-10.74	-9.91	38.78	-37.02	33.71	35.02	6.38	-56.57	-47.60
12.9	27.8	-58.76	-10.18	-11.22	39.13	-37.75	34.10	34.72	6.38	-57.81	-51.72
13.0	27.4	-58.86	-9.64	-12.93	38.96	-37.42	34.27	34.45	6.45	-59.12	-51.72

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} = +7 V, I_{DD} = 1250 mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	IP-3 Output	IM3 Output	1dB Comp. Output	Psat Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBc)	(dBm)	(dBm)	(dB)
7.0	26.68	-62.52	-19.10	-8.55	34.41	-28.51	31.80	33.25	9.63
7.1	26.74	-62.69	-19.53	-7.74	35.50	-30.66	32.22	33.46	9.20
7.2	26.87	-63.17	-19.94	-7.32	36.53	-32.70	32.65	33.81	8.89
7.3	27.05	-63.62	-20.39	-7.16	37.46	-34.58	33.02	34.07	8.74
7.4	27.28	-64.21	-20.73	-7.22	38.10	-35.81	33.35	34.27	8.55
7.5	27.54	-64.56	-20.96	-7.42	38.61	-36.84	33.68	34.48	8.26
7.6	27.83	-63.86	-20.78	-7.73	39.12	-37.88	33.94	34.63	8.08
7.7	27.94	-64.04	-21.38	-8.05	39.71	-39.10	33.96	34.69	8.02
7.8	28.22	-64.47	-21.25	-8.65	39.98	-39.63	33.90	34.64	7.88
7.9	28.59	-64.54	-20.35	-9.36	40.25	-40.11	33.98	34.70	7.76
8.0	28.94	-64.42	-19.14	-10.13	40.40	-40.41	34.11	34.80	7.57
8.1	29.24	-65.13	-17.83	-10.95	40.57	-40.74	34.34	35.00	7.48
8.2	29.49	-65.73	-16.61	-11.75	40.77	-41.16	34.58	35.21	7.46
8.3	29.71	-65.88	-15.61	-12.38	40.88	-41.38	34.73	35.36	7.36
8.4	29.92	-65.19	-14.82	-12.82	40.99	-41.59	34.80	35.42	7.24
8.5	30.10	-64.23	-14.26	-13.17	41.18	-41.95	34.80	35.32	7.13
8.6	30.19	-63.14	-13.68	-13.47	41.49	-42.58	35.03	35.53	7.08
8.7	30.20	-62.71	-13.19	-13.46	41.60	-42.80	35.61	36.03	6.99
8.8	30.29	-63.16	-12.88	-13.22	41.74	-43.07	36.03	36.44	6.89
8.9	30.39	-63.57	-12.78	-13.12	41.82	-43.28	36.32	36.64	6.78
9.0	30.43	-64.07	-12.83	-13.20	42.02	-43.67	36.27	36.65	6.68
9.1	30.37	-64.68	-12.91	-13.56	42.27	-44.18	36.11	36.55	6.65
9.2	30.30	-64.63	-12.98	-14.05	42.22	-44.03	36.12	36.56	6.53
9.3	30.23	-64.13	-13.12	-14.41	42.12	-43.85	36.15	36.61	6.43
9.4	30.14	-63.29	-13.16	-14.82	41.91	-43.43	36.28	36.71	6.35
9.5	30.07	-62.47	-13.05	-15.25	42.02	-43.61	36.13	36.57	6.28
9.6	30.04	-61.71	-13.02	-15.96	42.27	-44.11	35.82	36.37	6.23
9.7	30.04	-62.11	-13.20	-17.18	42.41	-44.40	35.56	36.23	6.14
9.8	30.00	-62.34	-13.32	-18.51	42.49	-44.53	35.43	36.23	6.05
9.9	29.92	-63.29	-13.38	-19.94	42.36	-44.27	35.50	36.29	5.94
10.0	29.76	-63.28	-13.19	-21.54	42.49	-44.53	35.47	36.29	5.85
10.1	29.57	-62.34	-12.62	-23.41	42.68	-44.97	35.49	36.35	5.85
10.2	29.43	-60.81	-11.93	-26.47	42.87	-45.29	35.36	36.25	5.73
10.3	29.39	-60.08	-11.41	-32.05	42.85	-45.29	35.28	36.26	5.67
10.4	29.34	-59.46	-10.95	-29.52	42.87	-45.32	35.32	36.36	5.62
10.5	29.35	-59.04	-10.50	-25.20	42.82	-45.16	35.32	36.41	5.55
10.6	29.39	-58.75	-10.06	-22.15	42.82	-45.21	35.30	36.42	5.46
10.7	29.48	-58.46	-9.67	-19.78	42.66	-44.93	35.24	36.37	5.42
10.8	29.55	-58.07	-9.36	-17.77	42.61	-44.84	35.23	36.43	5.38
10.9	29.67	-57.78	-9.11	-16.09	42.48	-44.57	35.29	36.48	5.29
11.0	29.77	-57.49	-8.99	-14.70	42.36	-44.31	35.36	36.54	5.26
11.1	29.90	-57.55	-9.00	-13.44	42.29	-44.16	35.21	36.39	5.23
11.2	29.96	-57.78	-9.16	-12.26	42.20	-44.00	35.08	36.25	5.22
11.3	29.99	-58.05	-9.41	-11.25	42.05	-43.70	34.94	36.15	5.20
11.4	30.02	-58.32	-9.67	-10.42	41.77	-43.12	35.07	36.31	5.16
11.5	30.04	-58.12	-9.91	-9.71	41.58	-42.75	35.22	36.41	5.10
11.6	30.09	-57.16	-10.09	-9.20	41.45	-42.48	35.16	36.36	5.13
11.7	30.17	-55.94	-10.30	-8.85	41.47	-42.49	34.96	36.17	5.10
11.8	30.26	-55.39	-10.60	-8.46	41.38	-42.32	34.75	36.12	5.07
11.9	30.34	-55.53	-11.00	-8.02	41.00	-41.60	34.83	36.28	5.00
12.0	30.37	-55.64	-11.56	-7.65	40.42	-40.36	34.97	36.48	5.04
12.1	30.48	-55.27	-12.05	-7.40	40.00	-39.60	35.25	36.74	5.10
12.2	30.61	-54.91	-12.43	-7.23	39.81	-39.19	35.16	36.74	5.09
12.3	30.74	-54.92	-12.55	-7.15	39.69	-38.91	34.58	36.50	5.06
12.4	31.03	-55.38	-12.39	-7.21	39.27	-38.04	33.99	36.05	5.02
12.5	31.14	-56.13	-12.01	-7.48	38.50	-36.50	33.95	35.96	5.09
12.6	31.00	-57.08	-11.52	-7.97	37.77	-35.03	33.94	35.86	5.07
12.7	30.93	-57.59	-11.04	-8.75	37.50	-34.54	34.09	35.77	5.08
12.8	31.10	-58.08	-10.46	-9.90	37.52	-34.49	34.08	35.37	5.09
12.9	31.17	-58.58	-9.95	-11.44	37.56	-34.62	34.18	34.97	5.11
13.0	30.85	-59.21	-9.43	-13.62	37.13	-33.74	34.42	34.58	5.15

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: $V_{DD} = +7\text{ V}$, $I_{DD} = 1250\text{ mA}$ @ Temperature = $+85^\circ\text{C}$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	IP-3 Output	IM3 Output	1dB Comp. Output	Psat Output	Noise Figure
(GHz)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBc)	(dBm)	(dBm)	(dB)
7.0	22.65	-62.86	-19.97	-8.79	35.89	-31.35	30.86	31.95	11.72
7.1	22.88	-63.08	-20.66	-8.22	36.93	-33.43	31.40	32.31	11.29
7.2	23.11	-63.43	-21.40	-7.96	37.87	-35.31	31.92	32.76	10.97
7.3	23.37	-63.64	-22.28	-7.90	38.71	-36.98	32.34	33.07	10.80
7.4	23.66	-64.50	-22.94	-8.05	39.30	-38.18	32.62	33.37	10.61
7.5	23.97	-64.42	-23.25	-8.33	39.75	-39.09	32.83	33.58	10.33
7.6	24.24	-63.44	-23.01	-8.65	40.24	-40.08	32.96	33.78	10.13
7.7	24.48	-64.19	-22.87	-9.13	40.65	-40.91	32.97	33.89	10.05
7.8	24.81	-64.94	-21.85	-9.79	40.83	-41.25	32.90	33.94	9.89
7.9	25.17	-64.44	-20.45	-10.53	40.97	-41.49	32.92	34.00	9.79
8.0	25.51	-64.15	-19.05	-11.27	41.13	-41.86	33.02	34.10	9.59
8.1	25.78	-64.81	-17.73	-11.91	41.30	-42.20	33.25	34.25	9.49
8.2	26.01	-65.18	-16.60	-12.43	41.50	-42.60	33.45	34.41	9.45
8.3	26.22	-65.54	-15.69	-12.75	41.65	-42.89	33.62	34.56	9.32
8.4	26.40	-65.43	-15.00	-12.88	41.84	-43.27	33.75	34.57	9.21
8.5	26.55	-64.21	-14.52	-12.97	42.14	-43.88	33.80	34.57	9.09
8.6	26.62	-63.31	-14.02	-13.03	42.51	-44.60	33.92	34.68	9.04
8.7	26.65	-62.53	-13.62	-12.93	42.49	-44.57	34.15	35.03	8.95
8.8	26.71	-62.95	-13.36	-12.78	42.42	-44.41	34.07	35.24	8.84
8.9	26.74	-63.55	-13.27	-12.81	42.22	-44.01	33.90	35.34	8.71
9.0	26.73	-64.40	-13.29	-13.04	42.29	-44.11	33.79	35.25	8.62
9.1	26.71	-64.93	-13.31	-13.46	42.42	-44.39	33.81	35.20	8.58
9.2	26.68	-64.64	-13.35	-13.88	42.29	-44.12	33.48	35.11	8.45
9.3	26.62	-64.18	-13.42	-14.35	42.15	-43.85	33.22	35.01	8.36
9.4	26.53	-63.76	-13.33	-14.98	41.97	-43.49	33.03	35.01	8.28
9.5	26.47	-63.87	-13.14	-15.74	42.09	-43.74	33.04	34.97	8.21
9.6	26.43	-63.57	-13.00	-16.73	42.38	-44.31	33.33	34.97	8.14
9.7	26.40	-62.96	-12.97	-18.04	42.53	-44.61	33.52	34.98	8.06
9.8	26.34	-63.64	-12.89	-19.63	42.59	-44.74	33.56	35.03	7.97
9.9	26.23	-63.35	-12.60	-21.57	42.43	-44.42	33.55	35.09	7.86
10.0	26.10	-63.08	-12.22	-24.13	42.46	-44.44	33.54	35.04	7.76
10.1	25.98	-62.14	-11.77	-27.17	42.53	-44.62	33.66	35.10	7.78
10.2	25.92	-61.67	-11.37	-27.75	42.57	-44.71	33.71	35.00	7.66
10.3	25.89	-61.23	-11.04	-24.50	42.45	-44.44	33.68	35.01	7.60
10.4	25.87	-60.70	-10.75	-21.22	42.37	-44.26	33.70	35.11	7.57
10.5	25.89	-60.20	-10.50	-18.74	42.19	-43.92	33.67	35.11	7.50
10.6	25.92	-59.90	-10.30	-16.78	42.10	-43.73	33.56	35.07	7.41
10.7	25.97	-59.62	-10.17	-15.12	41.93	-43.39	33.51	35.02	7.37
10.8	25.99	-59.23	-10.13	-13.72	41.86	-43.26	33.50	35.03	7.36
10.9	26.01	-58.80	-10.16	-12.55	41.76	-43.04	33.48	35.08	7.25
11.0	26.04	-58.57	-10.32	-11.58	41.61	-42.74	33.45	35.14	7.21
11.1	26.02	-58.52	-10.58	-10.73	41.51	-42.54	33.41	35.04	7.22
11.2	26.00	-58.59	-10.93	-9.99	41.42	-42.39	33.35	35.00	7.22
11.3	25.97	-58.54	-11.34	-9.38	41.36	-42.25	33.16	34.85	7.19
11.4	25.97	-58.32	-11.76	-8.86	41.15	-41.80	33.01	34.86	7.16
11.5	25.95	-57.91	-12.13	-8.44	40.91	-41.35	32.93	34.91	7.09
11.6	25.96	-57.02	-12.46	-8.13	40.74	-41.00	32.98	34.96	7.15
11.7	26.00	-56.20	-12.86	-7.85	40.76	-41.02	32.97	34.87	7.12
11.8	26.05	-55.74	-13.32	-7.59	40.78	-41.13	32.75	34.77	7.11
11.9	26.09	-55.46	-13.81	-7.36	40.47	-40.47	32.50	34.78	7.04
12.0	26.11	-55.33	-14.34	-7.21	39.92	-39.36	32.12	34.78	7.09
12.1	26.22	-55.13	-14.58	-7.12	39.44	-38.39	31.84	34.94	7.15
12.2	26.35	-55.17	-14.61	-7.11	39.26	-38.03	31.85	34.99	7.15
12.3	26.49	-55.40	-14.37	-7.20	39.31	-38.11	31.74	34.80	7.13
12.4	26.63	-55.99	-13.87	-7.43	39.09	-37.64	31.46	34.50	7.12
12.5	26.74	-56.93	-13.19	-7.87	38.48	-36.47	31.21	34.41	7.19
12.6	26.79	-58.13	-12.41	-8.53	37.89	-35.29	31.08	34.26	7.17
12.7	26.69	-58.68	-11.72	-9.44	37.81	-35.09	31.34	34.17	7.16
12.8	26.49	-58.70	-11.03	-10.71	38.12	-35.70	31.78	33.97	7.18
12.9	26.17	-58.54	-10.43	-12.33	38.53	-36.50	32.55	33.82	7.21
13.0	25.73	-58.14	-9.87	-14.50	38.41	-36.20	33.01	33.63	7.28

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +7\text{ V}$, $I_{DD} = 1100\text{ mA}$, 1250 mA , 1400 mA @ Temperature = $+25^\circ\text{C}$

FREQ	Gain @ 1100 mA	Gain @ 1250 mA	Gain @ 1400 mA	1dB Comp. Output @ 1100 mA	1dB Comp. Output @ 1250 mA	1dB Comp. Output @ 1400 mA	Psat Output @ 1100 mA	Psat Output @ 1250 mA	Psat Output @ 1400 mA
(GHz)	(dB)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
7.0	24.6	24.6	24.6	30.99	31.17	31.35	32.30	32.44	32.43
7.1	24.7	24.8	24.8	31.63	31.69	31.84	32.66	32.77	32.81
7.2	24.9	25.0	25.0	32.19	32.18	32.33	33.11	33.17	33.21
7.3	25.1	25.2	25.2	32.61	32.57	32.70	33.44	33.54	33.52
7.4	25.4	25.5	25.5	32.90	32.86	32.97	33.70	33.76	33.75
7.5	25.6	25.7	25.8	33.20	33.14	33.28	33.95	33.99	34.00
7.6	25.9	26.0	26.1	33.50	33.39	33.58	34.13	34.17	34.18
7.7	26.1	26.2	26.2	33.63	33.47	33.71	34.31	34.32	34.31
7.8	26.4	26.5	26.6	33.57	33.40	33.67	34.32	34.30	34.29
7.9	26.8	26.9	26.9	33.55	33.41	33.68	34.32	34.33	34.30
8.0	27.1	27.2	27.3	33.60	33.50	33.75	34.40	34.41	34.38
8.1	27.4	27.5	27.6	33.80	33.75	34.00	34.58	34.61	34.58
8.2	27.6	27.7	27.8	34.06	34.02	34.28	34.83	34.84	34.78
8.3	27.8	27.9	28.0	34.24	34.18	34.46	34.99	34.98	34.96
8.4	28.0	28.1	28.2	34.30	34.25	34.50	34.97	34.99	34.97
8.5	28.1	28.3	28.3	34.29	34.25	34.46	34.90	34.93	34.90
8.6	28.2	28.3	28.4	34.47	34.45	34.65	35.08	35.10	35.08
8.7	28.2	28.4	28.4	34.96	34.94	35.19	35.56	35.58	35.58
8.8	28.3	28.4	28.5	35.21	35.20	35.51	35.86	35.89	35.89
8.9	28.4	28.5	28.5	35.32	35.34	35.73	36.04	36.07	36.04
9.0	28.4	28.5	28.5	35.18	35.24	35.67	36.00	36.06	36.05
9.1	28.3	28.4	28.5	35.02	35.08	35.54	35.90	35.96	35.95
9.2	28.3	28.4	28.5	34.86	34.93	35.47	35.91	35.91	35.91
9.3	28.3	28.4	28.4	34.71	34.78	35.42	35.93	35.91	35.91
9.4	28.2	28.3	28.4	34.62	34.72	35.41	35.94	35.97	35.99
9.5	28.1	28.2	28.3	34.51	34.62	35.25	35.82	35.86	35.82
9.6	28.1	28.2	28.3	34.44	34.53	35.06	35.65	35.72	35.70
9.7	28.0	28.2	28.2	34.35	34.43	34.92	35.63	35.67	35.63
9.8	28.0	28.1	28.2	34.34	34.40	34.90	35.63	35.69	35.66
9.9	27.9	28.0	28.1	34.38	34.43	34.96	35.74	35.76	35.76
10.0	27.7	27.9	28.0	34.33	34.41	34.90	35.67	35.70	35.72
10.1	27.6	27.7	27.8	34.33	34.44	34.86	35.62	35.71	35.67
10.2	27.5	27.6	27.7	34.23	34.35	34.75	35.53	35.63	35.55
10.3	27.4	27.6	27.7	34.19	34.32	34.73	35.53	35.62	35.58
10.4	27.4	27.5	27.7	34.31	34.42	34.89	35.76	35.80	35.76
10.5	27.4	27.5	27.7	34.34	34.44	34.93	35.76	35.84	35.86
10.6	27.4	27.6	27.7	34.23	34.36	34.85	35.67	35.81	35.77
10.7	27.5	27.7	27.8	34.12	34.26	34.76	35.65	35.71	35.72
10.8	27.5	27.7	27.9	34.10	34.25	34.77	35.60	35.72	35.73
10.9	27.6	27.8	27.9	34.14	34.29	34.85	35.73	35.82	35.81
11.0	27.7	27.9	28.0	34.21	34.35	34.96	35.81	35.93	35.91
11.1	27.7	27.9	28.0	34.09	34.25	34.84	35.69	35.77	35.79
11.2	27.7	27.9	28.0	34.00	34.16	34.74	35.60	35.70	35.67
11.3	27.7	27.9	28.0	33.76	33.96	34.56	35.45	35.54	35.55
11.4	27.7	27.9	28.0	33.73	33.93	34.61	35.53	35.65	35.61
11.5	27.7	27.9	28.0	33.83	34.02	34.75	35.61	35.75	35.71
11.6	27.8	27.9	28.1	33.88	34.06	34.79	35.69	35.75	35.71
11.7	27.8	28.0	28.1	33.75	33.96	34.66	35.54	35.64	35.59
11.8	27.9	28.1	28.2	33.49	33.75	34.47	35.40	35.48	35.47
11.9	28.0	28.1	28.2	33.39	33.65	34.51	35.55	35.63	35.60
12.0	28.0	28.1	28.2	33.31	33.55	34.58	35.66	35.75	35.73
12.1	28.1	28.2	28.3	33.38	33.61	34.82	35.89	36.00	35.96
12.2	28.3	28.4	28.5	33.28	33.62	34.81	35.97	36.00	36.02
12.3	28.4	28.6	28.7	32.79	33.27	34.38	35.65	35.75	35.72
12.4	28.6	28.8	28.9	32.23	32.83	34.00	35.30	35.37	35.33
12.5	28.8	29.0	29.0	31.90	32.55	33.96	35.18	35.28	35.28
12.6	29.0	29.1	29.1	31.77	32.39	33.94	35.11	35.18	35.19
12.7	29.0	29.1	29.1	32.06	32.61	34.05	35.04	35.13	35.07
12.8	28.9	29.0	29.0	32.39	32.90	34.01	34.67	34.79	34.72
12.9	28.6	28.7	28.8	32.98	33.39	34.12	34.37	34.45	34.37
13.0	28.2	28.3	28.4	33.42	33.73	34.17	34.10	34.12	34.05

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +7\text{ V}$, $I_{DD} = 1100\text{ mA}$, 1250 mA , 1400 mA @ Temperature = $+25^\circ\text{C}$

FREQ	IP-3 @ 1100 mA	IP-3 @ 1250 mA	IP-3 @ 1400 mA	IM3 @ 1100 mA	IM3 @ 1250 mA	IM3 @ 1400 mA	Noise Figure @ 1100 mA	Noise Figure @ 1250 mA	Noise Figure @ 1400 mA
(GHz)	(dBm)	(dBm)	(dBm)	(dBc)	(dBc)	(dBc)	(dB)	(dB)	(dB)
7.0	35.3	35.7	35.6	-30.29	-30.99	-30.79	10.67	10.76	10.84
7.1	36.6	36.8	36.6	-32.74	-33.21	-32.80	10.24	10.32	10.43
7.2	37.7	37.8	37.5	-35.00	-35.24	-34.69	9.92	10.01	10.12
7.3	38.7	38.8	38.4	-37.08	-37.15	-36.46	9.76	9.86	9.98
7.4	39.5	39.4	39.0	-38.57	-38.47	-37.71	9.57	9.66	9.78
7.5	40.1	40.0	39.6	-39.73	-39.55	-38.73	9.27	9.36	9.50
7.6	40.7	40.6	40.1	-40.99	-40.76	-39.95	9.09	9.18	9.29
7.7	41.2	41.1	40.6	-42.00	-41.79	-40.95	9.00	9.11	9.23
7.8	41.4	41.3	40.9	-42.48	-42.29	-41.41	8.87	8.97	9.08
7.9	41.7	41.6	41.1	-43.01	-42.78	-41.91	8.74	8.84	8.97
8.0	41.9	41.8	41.3	-43.37	-43.19	-42.31	8.52	8.66	8.77
8.1	42.0	41.9	41.5	-43.67	-43.56	-42.67	8.46	8.57	8.68
8.2	42.2	42.1	41.7	-44.02	-43.97	-43.06	8.40	8.53	8.65
8.3	42.3	42.3	41.8	-44.30	-44.24	-43.32	8.31	8.43	8.54
8.4	42.5	42.4	41.9	-44.66	-44.55	-43.56	8.20	8.30	8.42
8.5	42.8	42.7	42.2	-45.27	-45.15	-44.01	8.06	8.18	8.29
8.6	43.2	43.1	42.5	-45.94	-45.82	-44.65	8.01	8.13	8.25
8.7	43.1	43.2	42.5	-45.91	-45.96	-44.80	7.93	8.05	8.17
8.8	43.1	43.2	42.6	-45.83	-46.07	-44.93	7.81	7.93	8.05
8.9	43.0	43.1	42.6	-45.52	-45.91	-44.85	7.70	7.83	7.94
9.0	43.1	43.3	42.8	-45.76	-46.20	-45.18	7.60	7.72	7.85
9.1	43.3	43.5	43.0	-46.17	-46.60	-45.59	7.57	7.69	7.82
9.2	43.1	43.4	42.9	-45.80	-46.31	-45.40	7.46	7.57	7.68
9.3	42.9	43.2	42.8	-45.41	-45.98	-45.22	7.35	7.47	7.61
9.4	42.7	43.0	42.6	-44.91	-45.55	-44.86	7.26	7.39	7.52
9.5	42.8	43.1	42.7	-45.26	-45.87	-45.11	7.19	7.31	7.42
9.6	43.3	43.5	43.0	-46.17	-46.64	-45.74	7.14	7.25	7.36
9.7	43.6	43.7	43.2	-46.74	-47.10	-46.12	7.02	7.15	7.30
9.8	43.7	43.8	43.3	-46.94	-47.26	-46.29	6.94	7.06	7.19
9.9	43.5	43.6	43.2	-46.52	-46.89	-45.98	6.85	6.98	7.10
10.0	43.6	43.8	43.3	-46.73	-47.11	-46.20	6.74	6.87	6.99
10.1	43.8	43.9	43.4	-47.10	-47.43	-46.50	6.74	6.85	7.01
10.2	43.9	44.0	43.6	-47.42	-47.68	-46.78	6.64	6.76	6.89
10.3	43.9	44.0	43.5	-47.27	-47.49	-46.65	6.57	6.69	6.82
10.4	43.7	43.9	43.5	-47.02	-47.28	-46.52	6.51	6.64	6.78
10.5	43.6	43.7	43.3	-46.68	-46.96	-46.27	6.44	6.60	6.73
10.6	43.5	43.6	43.3	-46.49	-46.77	-46.14	6.37	6.50	6.64
10.7	43.3	43.4	43.1	-46.16	-46.42	-45.83	6.31	6.46	6.61
10.8	43.2	43.3	43.0	-45.97	-46.23	-45.68	6.28	6.42	6.57
10.9	43.0	43.2	42.9	-45.60	-45.85	-45.35	6.19	6.32	6.45
11.0	42.8	43.0	42.7	-45.18	-45.45	-45.02	6.14	6.28	6.43
11.1	42.7	42.8	42.6	-45.01	-45.24	-44.80	6.15	6.27	6.43
11.2	42.7	42.8	42.5	-44.83	-45.05	-44.62	6.14	6.26	6.42
11.3	42.5	42.6	42.4	-44.58	-44.83	-44.43	6.10	6.25	6.39
11.4	42.2	42.4	42.2	-43.91	-44.26	-43.91	6.07	6.20	6.34
11.5	41.9	42.1	41.9	-43.33	-43.70	-43.38	6.01	6.16	6.29
11.6	41.7	41.9	41.7	-42.95	-43.32	-42.99	6.05	6.17	6.32
11.7	41.7	41.9	41.7	-42.98	-43.28	-42.94	6.04	6.15	6.30
11.8	41.7	41.8	41.6	-42.85	-43.15	-42.82	6.00	6.14	6.28
11.9	41.2	41.4	41.3	-41.94	-42.36	-42.08	5.95	6.07	6.23
12.0	40.6	40.8	40.7	-40.59	-41.13	-40.95	6.01	6.12	6.27
12.1	40.0	40.3	40.2	-39.38	-40.05	-39.97	6.05	6.18	6.32
12.2	39.8	40.1	40.0	-38.99	-39.61	-39.54	6.05	6.17	6.32
12.3	39.8	40.0	40.0	-38.99	-39.52	-39.43	6.01	6.16	6.30
12.4	39.5	39.7	39.7	-38.42	-38.94	-38.89	5.99	6.12	6.26
12.5	38.7	39.0	39.0	-36.91	-37.54	-37.61	6.06	6.19	6.34
12.6	38.0	38.4	38.4	-35.52	-36.25	-36.41	6.04	6.17	6.31
12.7	37.9	38.2	38.3	-35.24	-35.94	-36.07	6.05	6.18	6.32
12.8	38.2	38.4	38.4	-35.82	-36.39	-36.37	6.08	6.21	6.33
12.9	38.6	38.7	38.6	-36.63	-36.99	-36.81	6.08	6.22	6.36
13.0	38.3	38.5	38.4	-36.19	-36.57	-36.33	6.14	6.27	6.43

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: $V_{DD} = +7\text{ V}$, $I_{DD} = 1250\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

Power	OIP3 (@8 GHz)	OIP3 (@9 GHz)	OIP3 (@10 GHz)	OIP3 (@11 GHz)	OIP3 (@12 GHz)
(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
14.00	42.20	43.73	44.0	43.2	41.3
16.00	42.15	43.63	43.9	43.1	41.2
18.00	42.04	43.52	43.9	43.1	41.1
20.00	41.76	43.30	43.8	43.0	40.8
22.00	41.53	42.88	43.4	42.7	40.5
24.00	41.61	42.23	42.9	42.2	39.8
26.00	40.13	40.71	41.4	40.8	38.6
28.00	36.76	39.68	39.9	39.4	38.3

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +7\text{ V}$, $I_{DD} = 1250\text{ mA}$ @ Temperature = $+25^\circ\text{C}$

FREQ	P _{IN}	Gain	FREQ	P _{IN}	Gain	FREQ	P _{IN}	Gain
(GHz)	(dBm)	(dB)	(GHz)	(dBm)	(dB)	(GHz)	(dBm)	(dB)
8.00	-24	27.6	10.00	-24	28.3	12.00	-24	28.6
8.00	-23	27.6	10.00	-23	28.3	12.00	-23	28.6
8.00	-21	27.6	10.00	-21	28.3	12.00	-21	28.6
8.00	-20	27.6	10.00	-20	28.3	12.00	-20	28.7
8.00	-18	27.6	10.00	-18	28.3	12.00	-18	28.7
8.00	-16	27.6	10.00	-16	28.3	12.00	-16	28.6
8.00	-15	27.5	10.00	-15	28.3	12.00	-15	28.6
8.00	-13	27.6	10.00	-13	28.3	12.00	-13	28.6
8.00	-11	27.6	10.00	-11	28.3	12.00	-11	28.6
8.00	-10	27.6	10.00	-10	28.3	12.00	-10	28.7
8.00	-8	27.6	10.00	-8	28.3	12.00	-8	28.7
8.00	-6	27.6	10.00	-6	28.3	12.00	-6	28.7
8.00	-5	27.6	10.00	-5	28.4	12.00	-5	28.7
8.00	-3	27.6	10.00	-3	28.4	12.00	-3	28.7
8.00	-1	27.7	10.00	-1	28.5	12.00	-1	28.8
8.00	0	27.8	10.00	0	28.5	12.00	0	28.8
8.00	2	28.0	10.00	2	28.6	12.00	2	28.7
8.00	4	27.9	10.00	4	28.5	12.00	4	28.4
8.00	5	27.3	10.00	5	28.1	12.00	5	27.9
8.00	7	26.5	10.00	7	27.3	12.00	7	27.2
8.00	9	25.3	10.00	9	26.3	12.00	9	26.2
8.00	10	23.8	10.00	10	25.0	12.00	10	24.9
8.00	12	22.2	10.00	12	23.5	12.00	12	23.3
9.00	-24	28.9	11.00	-24	28.1			
9.00	-23	28.9	11.00	-23	28.1			
9.00	-21	28.9	11.00	-21	28.1			
9.00	-20	28.9	11.00	-20	28.1			
9.00	-18	28.9	11.00	-18	28.1			
9.00	-16	28.9	11.00	-16	28.1			
9.00	-15	28.9	11.00	-15	28.1			
9.00	-13	28.9	11.00	-13	28.1			
9.00	-11	28.9	11.00	-11	28.1			
9.00	-10	28.9	11.00	-10	28.1			
9.00	-8	28.9	11.00	-8	28.1			
9.00	-6	28.9	11.00	-6	28.1			
9.00	-5	29.0	11.00	-5	28.2			
9.00	-3	29.0	11.00	-3	28.2			
9.00	-1	29.1	11.00	-1	28.2			
9.00	0	29.2	11.00	0	28.3			
9.00	2	29.2	11.00	2	28.4			
9.00	4	29.1	11.00	4	28.3			
9.00	5	28.8	11.00	5	27.9			
9.00	7	28.1	11.00	7	27.1			
9.00	9	27.0	11.00	9	26.1			
9.00	10	25.5	11.00	10	24.8			
9.00	12	23.8	11.00	12	23.3			

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: $V_{DD} = +7\text{ V}$, $I_{DD} = 1250\text{ mA}$ @ Temperature = $+25^\circ\text{C}$

P_{IN}	P_{OUT} (@8 GHz)	P_{OUT} (@9 GHz)	P_{OUT} (@10 GHz)	P_{OUT} (@11 GHz)	P_{OUT} (@12 GHz)	I_{DD} (@8 GHz)	I_{DD} (@9 GHz)	I_{DD} (@10 GHz)	I_{DD} (@11 GHz)	I_{DD} (@12 GHz)
(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(mA)	(mA)	(mA)	(mA)	(mA)
-25	3.13	4.02	3.40	3.21	3.75	1247.59	1244.16	1243.05	1245.55	1239.25
-23	4.70	5.60	4.99	4.81	5.35	1244.35	1247.03	1247.13	1245.37	1242.77
-21	6.30	7.20	6.61	6.43	6.98	1245.92	1243.88	1243.88	1245.37	1242.03
-20	7.92	8.83	8.26	8.07	8.63	1246.66	1245.64	1246.85	1240.64	1243.42
-18	9.55	10.48	9.90	9.73	10.28	1243.33	1245.46	1244.72	1250.37	1241.94
-17	11.19	12.14	11.56	11.38	11.93	1245.37	1244.25	1243.51	1247.50	1243.24
-15	12.84	13.79	13.22	13.04	13.58	1241.66	1247.03	1244.35	1244.90	1240.27
-13	14.49	15.46	14.89	14.71	15.24	1243.14	1246.11	1242.77	1244.25	1240.92
-12	16.16	17.14	16.56	16.39	16.92	1241.94	1248.15	1241.10	1245.09	1241.85
-10	17.86	18.83	18.25	18.05	18.59	1240.92	1240.09	1236.20	1237.95	1238.42
-8	19.51	20.49	19.91	19.71	20.25	1238.14	1240.18	1233.51	1241.38	1240.18
-7	21.19	22.16	21.58	21.38	21.92	1233.88	1237.40	1236.38	1239.35	1234.34
-5	22.87	23.87	23.28	23.08	23.61	1228.69	1238.51	1232.49	1237.03	1243.79
-3	24.60	25.59	25.00	24.79	25.33	1225.54	1233.97	1232.95	1235.45	1240.09
-1	26.36	27.36	26.75	26.55	27.07	1225.17	1237.68	1229.71	1234.06	1243.24
0	28.16	29.15	28.55	28.32	28.80	1218.78	1242.12	1234.53	1235.82	1253.33
2	29.93	30.88	30.30	30.06	30.40	1218.32	1267.97	1236.10	1240.09	1270.56
4	31.32	32.46	31.84	31.64	31.78	1199.14	1340.13	1256.58	1259.63	1325.31
5	32.34	33.83	33.09	32.91	32.97	1165.42	1433.14	1302.24	1308.54	1403.40
7	33.17	34.86	34.08	33.90	33.92	1200.81	1514.57	1349.12	1367.46	1483.63
9	33.62	35.44	34.70	34.56	34.64	1242.86	1564.50	1364.59	1412.20	1543.56
10	33.80	35.62	35.11	34.98	35.07	1261.21	1607.20	1368.29	1422.39	1569.59
12	33.86	35.68	35.33	35.24	35.22	1268.25	1640.64	1361.53	1418.97	1582.19

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: $V_{DD} = +7\text{ V}$, $I_{DD} = 1250\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

Power	P_{Diss} (@8 GHz)	P_{Diss} (@9 GHz)	P_{Diss} (@10 GHz)	P_{Diss} (@11 GHz)	P_{Diss} (@12 GHz)	PAE (@8 GHz)	PAE (@9 GHz)	PAE (@10 GHz)	PAE (@11 GHz)	PAE (@12 GHz)
(dBm)	(W)	(W)	(W)	(W)	(W)	(%)	(%)	(%)	(%)	(%)
-24	8.73	8.71	8.70	8.72	8.67	0.02	0.03	0.03	0.03	0.03
-23	8.71	8.73	8.73	8.71	8.70	0.03	0.05	0.04	0.04	0.04
-21	8.72	8.70	8.70	8.71	8.69	0.05	0.07	0.06	0.05	0.06
-20	8.72	8.71	8.72	8.68	8.70	0.07	0.10	0.08	0.08	0.09
-18	8.69	8.71	8.70	8.74	8.68	0.10	0.14	0.12	0.12	0.14
-16	8.70	8.69	8.69	8.72	8.69	0.15	0.20	0.18	0.17	0.20
-15	8.67	8.70	8.69	8.69	8.66	0.22	0.30	0.26	0.25	0.29
-13	8.67	8.68	8.67	8.68	8.65	0.32	0.44	0.39	0.36	0.42
-11	8.65	8.68	8.64	8.67	8.64	0.47	0.64	0.57	0.54	0.62
-10	8.63	8.60	8.58	8.60	8.59	0.70	0.95	0.85	0.79	0.92
-8	8.58	8.56	8.53	8.59	8.56	1.03	1.39	1.24	1.15	1.34
-6	8.51	8.48	8.50	8.53	8.47	1.52	2.05	1.82	1.70	1.98
-5	8.41	8.41	8.39	8.44	8.45	2.25	3.03	2.69	2.51	2.90
-3	8.29	8.25	8.29	8.33	8.31	3.36	4.51	3.99	3.72	4.32
-1	8.14	8.08	8.09	8.16	8.14	5.03	6.75	5.98	5.57	6.42
0	7.88	7.82	7.87	7.93	7.95	7.67	10.06	8.96	8.29	9.35
2	7.55	7.60	7.52	7.63	7.74	11.52	14.37	13.13	12.14	12.95
4	7.04	7.59	7.23	7.35	7.75	16.12	19.06	17.79	16.69	16.50
5	6.45	7.65	7.10	7.24	7.87	20.98	23.75	22.15	20.95	19.85
7	6.33	7.69	6.99	7.23	8.02	24.64	27.47	26.01	24.51	22.79
9	6.41	7.72	6.80	7.20	8.09	26.34	29.52	28.85	27.14	25.09
10	6.44	7.89	6.59	7.05	8.07	27.06	29.84	31.25	29.16	26.56
12	6.46	8.11	6.36	6.86	8.03	27.24	29.40	33.22	30.98	27.49

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: $V_{DD} = +7\text{ V}$, $I_{DD} = 1250\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

FREQ	P _{DISS} (@ P _{SAT})	PAE (@ P _{SAT})
(GHz)	(W)	(%)
7.00	9.80	16.04
7.10	9.58	17.47
7.20	8.99	19.70
7.30	8.50	22.03
7.40	8.16	23.91
7.50	7.67	26.00
7.60	7.34	27.56
7.70	7.09	29.08
7.80	6.83	29.67
7.90	6.77	29.87
8.00	6.92	29.76
8.10	7.18	29.70
8.20	7.54	29.71
8.30	7.84	29.62
8.40	8.10	28.78
8.50	8.16	28.30
8.60	8.16	29.10
8.70	8.20	31.47
8.80	8.39	32.55
8.90	8.64	32.75
9.00	8.73	32.57
9.10	8.62	32.36
9.20	8.75	31.75
9.30	8.84	31.51
9.40	8.90	31.60
9.50	8.80	31.20
9.60	8.29	31.91
9.70	7.74	33.16
9.80	7.46	34.38
9.90	7.38	35.07
10.00	7.33	34.75
10.10	7.29	35.03
10.20	7.14	34.98
10.30	7.07	35.39
10.40	7.05	36.40
10.50	7.11	36.30
10.60	7.28	35.53
10.70	7.27	35.08
10.80	7.36	34.91
10.90	7.45	35.17
11.00	7.58	35.36
11.10	7.61	34.55
11.20	7.71	33.61
11.30	7.85	32.44
11.40	8.10	32.32
11.50	8.41	31.99
11.60	8.50	31.73
11.70	8.59	30.78
11.80	8.67	29.89
11.90	8.84	29.94
12.00	9.09	29.97
12.10	9.45	30.40
12.20	9.44	30.31
12.30	9.32	29.16
12.40	9.31	27.56
12.50	9.33	26.85
12.60	9.38	26.39
12.70	9.26	26.38
12.80	9.01	25.26
12.90	8.56	24.76
13.00	8.44	23.54

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +7\text{ V}$, $I_{DD} = 1250\text{ mA}$ @ Temperature = $+25^\circ\text{C}$

FREQ	P _{OUT}	2nd Harmonics	FREQ	P _{OUT}	3rd Harmonics
(GHz)	(dBm)	(dBc)	(GHz)	(dBm)	(dBc)
7.00	15.0	-39.2	7.00	15.0	-85.1
7.00	18.0	-36.1	7.00	18.0	-86.1
7.00	21.0	-33.2	7.00	21.0	-87.2
7.00	24.0	-30.1	7.00	24.0	-90.1
7.00	27.0	-26.8	7.00	27.0	-84.8
7.00	30.0	-22.7	7.00	30.0	-75.3
7.00	33.0	-24.5	7.00	33.0	-67.3
7.00	35.0	-14.5	7.00	35.0	-58.7
8.00	15.0	-45.7	8.00	15.0	-96.0
8.00	18.0	-42.3	8.00	18.0	-89.0
8.00	21.0	-39.3	8.00	21.0	-91.8
8.00	24.0	-36.3	8.00	24.0	-91.3
8.00	27.0	-32.9	8.00	27.0	-71.1
8.00	30.0	-28.6	8.00	30.0	-74.8
8.00	33.0	-37.0	8.00	33.0	-68.0
8.00	35.0	-21.2	8.00	35.0	-66.7
9.00	15.0	-59.3	9.00	15.0	-76.0
9.00	18.0	-55.2	9.00	18.0	-76.5
9.00	21.0	-53.3	9.00	21.0	-81.8
9.00	24.0	-50.7	9.00	24.0	-80.9
9.00	27.0	-46.7	9.00	27.0	-72.1
9.00	30.0	-43.9	9.00	30.0	-74.5
9.00	33.0	-43.9	9.00	33.0	-66.4
9.00	35.0	-41.4	9.00	35.0	-60.0
10.00	15.0	-69.0	10.00	15.0	-64.5
10.00	18.0	-52.0	10.00	18.0	-69.2
10.00	21.0	-54.8	10.00	21.0	-71.5
10.00	24.0	-57.0	10.00	24.0	-76.2
10.00	27.0	-55.6	10.00	27.0	-72.2
10.00	30.0	-52.9	10.00	30.0	-65.3
10.00	33.0	-48.6	10.00	33.0	-65.6
10.00	35.0	-52.5	10.00	35.0	-60.8
11.00	15.0	-73.8	11.00	15.0	-59.2
11.00	18.0	-59.5	11.00	18.0	-65.2
11.00	21.0	-62.2	11.00	21.0	-63.7
11.00	24.0	-63.2	11.00	24.0	-64.0
11.00	27.0	-59.6	11.00	27.0	-73.5
11.00	30.0	-56.5	11.00	30.0	-57.8
11.00	33.0	-54.4	11.00	33.0	-56.0
11.00	35.0	-57.8	11.00	35.0	-52.6
12.00	15.0	-72.7	12.00	15.0	-62.4
12.00	18.0	-59.4	12.00	18.0	-55.2
12.00	21.0	-58.6	12.00	21.0	-57.0
12.00	24.0	-62.1	12.00	24.0	-61.0
12.00	27.0	-57.3	12.00	27.0	-62.7
12.00	30.0	-54.8	12.00	30.0	-51.4
12.00	33.0	-56.4	12.00	33.0	-49.4
12.00	35.0	-55.9	12.00	35.0	-49.2
13.00	15.0	-76.0	13.00	15.0	-56.5
13.00	18.0	-53.8	13.00	18.0	-60.9
13.00	21.0	-56.6	13.00	21.0	-55.2
13.00	24.0	-58.8	13.00	24.0	-59.1
13.00	27.0	-59.7	13.00	27.0	-57.9
13.00	30.0	-57.4	13.00	30.0	-55.2
13.00	33.0	-57.1	13.00	33.0	-53.0
13.00	35.0	-57.7	13.00	35.0	-49.0

Typical Performance Data

TEST CONDITIONS: $V_{DD} = +7\text{ V}$, $I_{DD} = 1250\text{ mA}$ @ Temperature = $+25^\circ\text{C}$

FREQ	P _{OUT}	Phase	FREQ	P _{OUT}	Phase	FREQ	P _{OUT}	Phase
(GHz)	(dBm)	(°)	(GHz)	(dBm)	(°)	(GHz)	(dBm)	(°)
8.00	16.0	0.00	10.00	18.2	0.0	12.00	19.3	0.0
8.00	16.7	0.02	10.00	19.0	0.0	12.00	20.1	0.1
8.00	17.4	0.03	10.00	19.8	0.1	12.00	20.9	0.2
8.00	18.2	0.08	10.00	20.7	0.3	12.00	21.8	0.4
8.00	19.0	0.17	10.00	21.6	0.4	12.00	22.7	0.7
8.00	19.8	0.30	10.00	22.5	0.6	12.00	23.7	1.1
8.00	20.7	0.43	10.00	23.4	0.9	12.00	24.7	1.5
8.00	21.7	0.63	10.00	24.3	1.2	12.00	25.6	2.1
8.00	22.6	0.86	10.00	25.3	1.7	12.00	26.6	2.8
8.00	23.6	1.17	10.00	26.3	2.2	12.00	27.6	3.7
8.00	24.6	1.53	10.00	27.3	2.8	12.00	28.6	5.0
8.00	25.6	1.98	10.00	28.3	3.6	12.00	29.6	6.6
8.00	26.7	2.54	10.00	29.2	4.6	12.00	30.5	9.0
8.00	27.8	3.24	10.00	30.0	6.1	12.00	31.3	12.3
8.00	28.9	4.15	10.00	30.8	8.0	12.00	32.0	16.1
8.00	29.9	5.30	10.00	31.5	10.2	12.00	32.7	19.7
8.00	31.0	6.85	10.00	32.1	12.4	12.00	33.3	23.0
8.00	31.8	10.16	10.00	32.8	14.4	12.00	33.9	26.0
8.00	32.7	17.53	10.00	33.4	16.3	12.00	34.4	28.6
8.00	33.4	25.94	10.00	34.0	18.3	12.00	34.9	30.8
8.00	33.8	33.50	10.00	34.6	20.5	12.00	35.3	32.6
8.00	34.2	39.86	10.00	35.0	24.1	12.00	35.6	34.1
8.00	34.4	45.50	10.00	35.3	29.9	12.00	35.7	35.5
8.00	34.6	50.84	10.00	35.4	36.2	12.00	35.8	36.8
8.00	34.8	55.44	10.00	35.5	41.7	12.00	35.8	37.8
8.00	35.0	59.95	10.00	35.5	46.3	12.00	35.8	38.7
8.00	35.1	64.01	10.00	35.5	50.2	12.00	35.8	39.5
8.00	35.2	67.62	10.00	35.5	53.3	12.00	35.8	40.3
9.00	18.0	0.00	11.00	18.2	0.0			
9.00	18.8	0.04	11.00	18.9	0.0			
9.00	19.5	0.09	11.00	19.8	0.1			
9.00	20.4	0.18	11.00	20.7	0.2			
9.00	21.2	0.30	11.00	21.5	0.4			
9.00	22.1	0.46	11.00	22.5	0.6			
9.00	23.0	0.65	11.00	23.4	0.8			
9.00	24.0	0.89	11.00	24.4	1.2			
9.00	25.0	1.19	11.00	25.3	1.6			
9.00	26.0	1.54	11.00	26.3	2.1			
9.00	27.0	1.97	11.00	27.3	2.7			
9.00	28.0	2.48	11.00	28.3	3.4			
9.00	29.1	3.10	11.00	29.3	4.3			
9.00	30.1	3.86	11.00	30.3	5.4			
9.00	31.1	4.79	11.00	31.2	6.9			
9.00	32.1	6.03	11.00	31.9	9.0			
9.00	32.9	7.72	11.00	32.6	11.4			
9.00	33.5	10.02	11.00	33.2	13.7			
9.00	34.0	13.02	11.00	33.8	15.9			
9.00	34.5	16.41	11.00	34.3	17.9			
9.00	34.8	19.99	11.00	34.8	19.4			
9.00	35.1	23.80	11.00	35.2	20.5			
9.00	35.3	28.37	11.00	35.5	20.9			
9.00	35.4	33.23	11.00	35.7	21.3			
9.00	35.4	38.00	11.00	35.7	22.2			
9.00	35.5	42.26	11.00	35.8	23.6			
9.00	35.5	46.09	11.00	35.8	25.9			
9.00	35.6	49.56	11.00	35.8	28.7			

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: $V_{DD} = +7\text{ V}$, $I_{DD} = 1250\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

FREQ	P _{OUT} (dBm)	V _{REF} - V _{DET}	FREQ	P _{OUT} (dBm)	V _{REF} - V _{DET}	FREQ	P _{OUT} (dBm)	V _{REF} - V _{DET}
(GHz)	(dBm)	(V)	(GHz)	(dBm)	(V)	(GHz)	(dBm)	(V)
8.0	-4.4	0.003	9.0	-3.6	0.005	10.0	-4.5	0.004
8.0	-2.7	0.005	9.0	-1.9	0.007	10.0	-2.7	0.006
8.0	-0.9	0.007	9.0	0.0	0.010	10.0	-0.8	0.009
8.0	1.0	0.011	9.0	1.9	0.015	10.0	1.1	0.014
8.0	2.9	0.016	9.0	3.8	0.022	10.0	3.1	0.021
8.0	4.9	0.024	9.0	5.8	0.033	10.0	5.0	0.031
8.0	6.9	0.036	9.0	7.8	0.049	10.0	7.0	0.046
8.0	8.9	0.054	9.0	9.8	0.071	10.0	9.0	0.067
8.0	10.8	0.077	9.0	11.8	0.103	10.0	11.0	0.096
8.0	12.8	0.110	9.0	13.8	0.144	10.0	13.0	0.140
8.0	15.5	0.183	9.0	16.3	0.223	10.0	15.3	0.206
8.0	17.2	0.233	9.0	18.0	0.286	10.0	17.2	0.264
8.0	19.1	0.305	9.0	19.9	0.372	10.0	19.1	0.346
8.0	21.1	0.398	9.0	21.9	0.488	10.0	21.0	0.454
8.0	23.0	0.523	9.0	23.9	0.640	10.0	23.1	0.597
8.0	25.1	0.691	9.0	26.0	0.846	10.0	25.1	0.783
8.0	27.2	0.922	9.0	28.1	1.134	10.0	27.2	1.044
8.0	29.5	1.258	9.0	30.3	1.543	10.0	29.4	1.408
8.0	31.6	1.679	9.0	32.4	2.058	10.0	31.4	1.874
8.0	33.1	2.050	9.0	33.3	2.316	10.0	33.1	2.368
8.0	34.2	2.427	9.0	34.1	2.538	10.0	33.9	2.606
8.0	34.5	2.582	9.0	35.1	2.832	10.0	34.9	2.989

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: $V_{DD} = +7\text{ V}$, $I_{DD} = 1250\text{ mA}$ @ Temperature = $+25^{\circ}\text{C}$

FREQ	P _{OUT} (dBm)	V _{REF} - V _{DET}	FREQ	P _{OUT} (dBm)	V _{REF} - V _{DET}
(GHz)	(dBm)	(V)	(GHz)	(dBm)	(V)
11.0	-4.4	0.005	12.0	-4.9	0.004
11.0	-2.6	0.007	12.0	-2.1	0.007
11.0	-0.6	0.010	12.0	0.8	0.013
11.0	1.3	0.015	12.0	3.7	0.024
11.0	3.3	0.023	12.0	6.7	0.044
11.0	5.2	0.036	12.0	9.7	0.077
11.0	7.2	0.050	12.0	12.7	0.129
11.0	9.2	0.072	12.0	14.6	0.181
11.0	11.2	0.103	12.0	16.5	0.236
11.0	13.2	0.145	12.0	18.4	0.312
11.0	15.4	0.215	12.0	20.4	0.412
11.0	17.2	0.276	12.0	22.4	0.543
11.0	19.2	0.361	12.0	24.5	0.716
11.0	21.2	0.475	12.0	26.6	0.953
11.0	23.2	0.622	12.0	28.6	1.278
11.0	25.2	0.820	12.0	30.5	1.670
11.0	27.4	1.101	12.0	32.2	2.137
11.0	29.5	1.501	12.0	33.1	2.390
11.0	31.6	2.009	12.0	33.8	2.576
11.0	33.2	2.471	12.0	34.5	2.705
11.0	34.2	2.801	12.0	34.9	2.782
11.0	34.9	2.990	12.0	35.2	2.816