

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

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	3dB Comp. Output	Noise Figure	P _{sat} Output
					K	Measure					
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dBm)	(dB)	(dBm)
0.05	18.0	-72.65	-24.74	-10.63	266.33	0.92	-	-	-	-	-
0.1	16.7	-72.36	-23.57	-10.65	281.07	0.92	-	-	-	-	-
0.2	15.5	-66.00	-20.88	-9.63	150.68	0.90	-	-	-	-	-
0.4	14.7	-60.40	-17.69	-9.47	85.25	0.90	-	-	-	7.56	-
0.6	13.9	-57.83	-16.29	-8.91	67.67	0.89	-	29.87	30.58	6.52	31.52
0.8	13.6	-55.46	-15.15	-9.19	53.58	0.91	-	30.30	32.04	5.54	32.90
1.0	13.5	-53.69	-14.17	-9.71	44.64	0.93	45.98	30.53	32.34	5.09	33.11
1.2	13.4	-52.09	-13.40	-10.35	37.86	0.95	45.53	30.80	32.56	4.71	33.26
1.4	13.4	-50.80	-12.86	-11.08	33.24	0.97	45.30	30.93	32.79	4.58	33.47
1.6	13.3	-49.74	-12.53	-11.98	29.85	0.99	44.99	30.97	32.56	4.41	33.20
1.8	13.3	-48.49	-12.36	-12.69	26.18	1.00	44.62	31.08	32.59	3.95	33.24
2.0	13.2	-47.65	-12.43	-13.51	24.16	1.01	44.52	31.02	32.48	3.74	33.07
2.2	13.2	-46.86	-12.69	-14.21	22.37	1.01	44.34	30.95	32.48	3.44	33.17
2.4	13.2	-46.09	-13.16	-14.67	20.70	1.01	44.17	30.97	32.58	3.37	33.14
2.6	13.2	-45.45	-13.86	-14.78	19.41	1.01	44.31	31.09	32.74	3.24	33.32
2.8	13.2	-44.85	-14.86	-14.57	18.26	1.00	44.23	31.38	33.04	2.97	33.55
3.0	13.2	-44.09	-16.20	-14.09	16.81	0.98	44.21	31.44	33.14	2.87	33.62
3.2	13.2	-43.46	-18.02	-13.50	15.69	0.97	44.22	31.46	33.13	2.80	33.60
3.4	13.2	-42.89	-20.55	-12.90	14.70	0.96	44.26	31.36	33.00	2.74	33.43
3.6	13.2	-42.40	-24.36	-12.36	13.91	0.95	44.19	31.46	33.10	2.72	33.56
3.8	13.2	-41.93	-31.51	-11.90	13.17	0.94	44.16	31.50	33.20	2.78	33.63
4.0	13.1	-41.48	-43.25	-11.56	12.50	0.93	43.94	31.56	33.35	2.76	33.73
4.2	13.1	-41.06	-28.69	-11.34	11.91	0.93	43.77	31.50	33.37	2.80	33.74
4.4	13.1	-40.67	-23.80	-11.23	11.39	0.93	43.46	31.29	33.17	2.90	33.56
4.6	13.0	-40.30	-21.09	-11.26	10.94	0.93	43.22	31.31	33.19	2.77	33.55
4.8	13.0	-39.96	-19.41	-11.42	10.54	0.94	42.97	31.18	33.13	2.75	33.49
5.0	13.0	-39.59	-18.40	-11.70	10.16	0.94	42.82	31.34	33.24	2.83	33.60
5.2	13.0	-39.25	-17.87	-12.11	9.82	0.95	42.61	31.53	33.28	2.77	33.62
5.4	13.0	-38.89	-17.76	-12.62	9.49	0.96	42.49	31.48	33.15	2.77	33.49
5.6	13.0	-38.57	-18.02	-13.24	9.21	0.97	42.36	31.39	33.28	2.72	33.65
5.8	13.0	-38.25	-18.57	-13.89	8.94	0.97	42.29	31.30	33.21	2.78	33.57
6.0	13.0	-37.88	-19.96	-14.50	8.64	0.97	42.08	31.31	33.27	2.89	33.64
6.2	13.1	-37.48	-22.70	-14.98	8.31	0.97	41.91	31.39	33.43	2.79	33.81
6.4	13.1	-37.14	-26.89	-15.20	8.04	0.97	41.83	31.41	33.44	2.82	33.76
6.6	13.1	-36.84	-36.22	-15.15	7.79	0.97	41.71	31.30	33.47	2.87	33.81
6.8	13.0	-36.56	-33.74	-14.87	7.57	0.96	41.51	31.15	33.38	2.93	33.72
7.0	13.0	-36.31	-25.38	-14.48	7.37	0.96	41.31	31.00	33.39	2.97	33.69
7.2	12.9	-36.09	-21.27	-14.09	7.18	0.96	41.03	31.01	33.43	3.06	33.67
7.4	12.8	-35.88	-18.64	-13.76	7.02	0.96	40.84	31.06	33.39	3.09	33.56
7.6	12.7	-35.68	-16.87	-13.57	6.87	0.97	40.72	31.00	33.44	3.19	33.67
7.8	12.7	-35.51	-15.69	-13.52	6.76	0.98	40.54	30.90	33.19	3.23	33.31
8.0	12.6	-35.30	-14.96	-13.62	6.62	0.98	40.36	30.94	33.32	3.27	33.52
8.2	12.5	-35.09	-14.64	-13.88	6.50	0.99	40.13	30.86	33.29	3.34	33.45
8.4	12.5	-34.87	-14.73	-14.27	6.38	0.99	40.05	30.94	33.27	3.39	33.46
8.6	12.5	-34.62	-15.28	-14.80	6.26	0.99	39.79	30.66	33.11	3.37	33.37
8.8	12.5	-34.35	-16.41	-15.35	6.13	0.99	39.45	30.36	32.96	3.43	33.21
9.0	12.5	-34.08	-18.38	-15.81	6.01	0.98	39.12	30.32	32.65	3.49	32.94
9.2	12.5	-33.82	-21.83	-16.04	5.90	0.98	38.85	30.35	32.74	3.63	33.02
9.4	12.5	-33.59	-28.88	-15.94	5.81	0.97	38.65	30.56	32.62	3.73	32.88
9.6	12.4	-33.39	-29.84	-15.56	5.73	0.97	38.34	30.76	32.86	3.75	33.03
9.8	12.3	-33.28	-21.40	-15.04	5.72	0.97	38.13	30.86	32.76	3.92	32.93
10.0	12.0	-33.24	-17.03	-14.54	5.76	0.97	37.78	30.67	32.75	4.08	32.89
10.5	11.3	-33.39	-11.87	-13.77	6.07	1.01	36.67	30.73	32.40	-	32.34
11.0	10.4	-33.54	-10.47	-13.84	6.59	1.04	35.73	30.43	31.83	-	31.74
11.5	9.9	-33.45	-12.31	-14.56	7.21	1.02	34.64	29.07	31.34	-	31.24
12.0	9.3	-33.31	-22.19	-15.52	8.06	0.98	33.22	27.97	30.52	-	30.41