

Typical Performance Data

Test Conditions: Temperature = +25°C, DC Supply Voltage = 28 V, Supply Current = 4000 mA.

Freq. (GHz)	Small Sig.Gain (dB)	Isolation (dB)	P1dB Comp. (dBm)	Pout Satur. (dBm)	IP3 Output (dBm)	Noise Figure (dB)	Return Loss In (dB)	Out (dB)
2.0	52.91	-77.57	38.59	44.59	46.60	9.25	-19.73	-20.44
2.1	54.12	-74.10	38.66	44.66	47.49	8.96	-19.08	-17.21
2.2	55.02	-78.79	38.82	44.82	47.76	8.76	-18.78	-14.56
2.3	55.27	-71.19	39.05	45.05	48.00	8.94	-18.49	-12.52
2.5	55.20	-80.49	39.59	45.59	47.90	8.75	-17.95	-10.37
2.6	55.26	-78.76	40.04	46.04	47.17	8.60	-17.95	-9.54
2.7	54.99	-73.72	40.26	46.26	46.92	8.70	-17.69	-9.00
2.8	54.85	-75.36	39.84	45.84	46.40	8.78	-17.69	-8.66
3.0	54.32	-78.13	39.58	45.58	45.18	8.85	-17.95	-7.89
3.1	54.42	-75.37	39.49	45.49	45.56	8.68	-17.95	-8.80
3.2	54.04	-82.81	39.47	45.47	45.73	8.69	-18.22	-9.21
3.3	54.32	-75.06	39.44	45.44	46.10	8.75	-18.78	-10.65
3.5	54.15	-82.50	39.49	45.49	46.24	8.58	-20.08	-13.71
3.6	54.05	-94.97	39.70	45.70	47.35	8.54	-21.23	-13.98
3.7	53.58	-67.49	39.70	45.70	46.52	8.56	-22.12	-14.26
3.8	53.11	-72.18	39.56	45.56	48.25	8.63	-22.61	-13.20
4.0	52.25	-86.34	39.29	45.29	46.49	8.65	-24.29	-11.20
4.1	51.89	-93.55	39.04	45.04	45.77	8.42	-24.94	-10.44
4.2	51.74	-77.43	38.97	44.97	44.57	8.41	-25.66	-9.72
4.3	51.47	-82.23	38.77	44.77	43.65	8.52	-26.44	-9.00
4.5	51.25	-87.93	38.85	44.85	42.71	8.45	-26.44	-8.95
4.6	51.57	-74.03	38.98	44.98	43.89	8.51	-25.66	-9.26
4.7	51.61	-72.55	39.31	45.31	45.47	8.48	-24.94	-9.97
4.8	51.74	-63.65	39.58	45.58	45.04	8.42	-24.29	-10.51
5.0	52.04	-77.51	39.91	45.91	45.37	8.27	-22.61	-14.56
5.1	51.94	-73.24	40.02	46.02	45.73	8.25	-22.12	-15.56
5.2	51.94	-73.83	39.87	45.87	46.44	8.26	-20.83	-15.21
5.3	52.40	-76.67	39.68	45.68	46.29	8.28	-19.08	-16.13
5.5	53.83	-72.75	39.50	45.50	44.67	8.22	-17.21	-15.75
5.6	55.13	-77.07	39.40	45.40	44.18	8.05	-15.75	-17.95
5.7	55.64	-71.93	39.50	45.50	43.96	7.94	-15.56	-16.13
5.8	55.63	-70.09	39.52	45.52	44.35	8.12	-14.88	-11.91
6.0	53.66	-78.36	39.19	45.19	43.79	8.00	-14.41	-7.56
6.1	52.90	-67.94	39.19	45.19	44.05	7.87	-15.38	-7.29
6.2	52.31	-75.47	39.19	45.19	44.72	8.01	-15.94	-7.23
6.3	51.82	-79.43	39.03	45.03	44.01	7.87	-17.21	-7.39
6.5	51.72	-71.72	38.93	44.93	44.00	7.97	-21.23	-8.52
6.6	51.78	-79.54	38.85	44.85	44.68	7.99	-23.69	-9.48
6.7	51.85	-80.52	38.69	44.69	44.49	7.92	-25.66	-10.30
6.8	52.01	-72.12	38.63	44.63	43.96	8.00	-24.94	-11.20
7.0	52.82	-72.21	38.64	44.64	44.35	7.74	-19.08	-13.58
7.1	53.14	-74.31	38.56	44.56	43.38	7.74	-17.21	-12.96
7.2	53.60	-84.10	38.35	44.35	42.97	7.37	-15.94	-11.20
7.3	53.76	-78.07	38.25	44.25	42.20	7.52	-15.04	-9.97
7.5	54.07	-68.34	38.24	44.24	41.76	7.37	-13.84	-7.78
7.6	53.74	-74.56	38.20	44.20	42.14	7.69	-13.71	-8.47
7.7	53.21	-73.17	38.15	44.15	42.22	7.40	-13.98	-10.51
7.8	52.61	-100.63	38.06	44.06	42.53	7.12	-14.12	-12.85
7.9	51.94	-80.63	38.05	44.05	43.08	7.46	-14.88	-16.33
8.0	51.17	-72.17	37.76	43.76	43.86	7.23	-15.75	-17.21

Amplifier

ZHL-2G08G0030(X)+

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Test Conditions: Temperature = +25°C, DC Supply Voltage = 28 V, Supply Current = 4000 mA.

Pin (dBm)	Pout (dBm)	Current (A)
-37.0	15.55	2.07
-36.0	16.54	2.07
-35.0	17.54	2.06
-34.0	18.53	2.06
-33.0	19.51	2.06
-32.0	20.49	2.05
-31.0	21.46	2.05
-30.0	22.44	2.04
-29.0	23.43	2.04
-28.0	24.41	2.03
-27.0	25.39	2.02
-26.0	26.36	2.01
-25.0	27.31	2.01
-24.0	28.25	2.00
-23.0	29.18	2.00
-22.0	30.10	2.00
-21.0	31.01	2.00
-20.0	31.93	2.02
-19.0	32.84	2.05
-18.0	33.75	2.10
-17.0	34.65	2.16
-16.0	35.58	2.23
-15.0	36.43	2.31
-14.0	37.24	2.40
-13.0	38.03	2.50
-12.0	38.81	2.61
-11.0	39.58	2.73
-10.0	40.32	2.87
-9.0	41.03	3.02
-8.0	41.68	3.17
-7.0	42.30	3.35
-6.0	42.91	3.53
-5.0	43.43	3.73
-4.0	43.91	3.93
-3.0	44.34	4.13
-2.0	44.70	4.34
-1.0	45.02	4.53
0.0	45.27	4.71
1.0	45.48	4.87
2.0	45.65	4.92
3.0	45.75	4.93
4.0	45.82	4.94
5.0	45.87	4.95
6.0	45.91	4.96
7.0	45.90	4.97