

Typical Performance Data

OUTPUT VOLTAGE VS INPUT POWER @ +25°C											
POWER IN (dBm)	@0.5 GHz (V)	@1 GHz (V)	@5 GHz (V)	@10 GHz (V)	@15 GHz (V)	@20 GHz (V)	@25 GHz (V)	@30 GHz (V)	@35 GHz (V)	@40 GHz (V)	@43.5 GHz (V)
-30.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01
-25.00	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.02
-20.00	0.05	0.07	0.07	0.08	0.07	0.08	0.08	0.07	0.07	0.05	0.04
-15.00	0.09	0.12	0.13	0.13	0.13	0.14	0.15	0.12	0.12	0.08	0.07
-10.00	0.19	0.22	0.23	0.23	0.23	0.25	0.26	0.22	0.22	0.15	0.12
-5.00	0.37	0.39	0.39	0.40	0.39	0.43	0.46	0.38	0.39	0.27	0.22
0.00	0.68	0.70	0.67	0.69	0.66	0.75	0.81	0.68	0.71	0.48	0.40
5.00	1.22	1.21	1.10	1.11	1.00	1.17	1.39	1.03	1.31	0.76	0.67
10.00	2.14	2.17	2.04	2.05	2.00	2.17	2.55	1.96	2.52	1.53	1.40
15.00	3.95	3.97	3.74	3.62	3.60	3.96	4.16	4.00	4.17	2.67	3.22

OUTPUT VOLTAGE (V) VS FREQUENCY						
FREQ (GHz)	@ INPUT POWER					
	-30 dBm	-15 dBm	0 dBm	+5 dBm	+10 dBm	+15 dBm
0.5	0.02	0.09	0.68	1.22	2.14	3.95
1.0	0.02	0.12	0.70	1.21	2.17	3.97
3	0.02	0.13	0.71	1.18	2.12	3.87
5	0.02	0.13	0.67	1.10	2.04	3.74
7	0.02	0.13	0.68	1.08	1.94	3.54
9	0.02	0.13	0.67	1.06	2.00	3.59
11	0.02	0.13	0.70	1.08	2.02	3.57
13	0.02	0.14	0.73	1.05	2.05	3.67
15	0.02	0.13	0.66	1.00	2.00	3.60
17	0.02	0.14	0.73	1.12	2.17	3.93
19	0.03	0.14	0.76	1.14	2.13	3.85
21	0.03	0.14	0.75	1.18	2.18	3.93
23	0.02	0.15	0.81	1.29	2.39	4.16
25	0.02	0.15	0.81	1.39	2.55	4.16
27	0.02	0.14	0.78	1.28	2.39	4.17
29	0.02	0.11	0.64	1.08	2.05	4.04
31	0.02	0.12	0.69	1.13	2.12	3.60
33	0.02	0.12	0.71	1.17	2.21	4.01
35	0.02	0.12	0.71	1.31	2.52	4.17
37	0.02	0.10	0.61	1.02	1.99	3.07
39	0.01	0.08	0.48	0.82	1.66	2.18
41	0.01	0.08	0.48	0.78	1.60	3.03
43	0.01	0.07	0.43	0.66	1.39	3.50
44	0.01	0.07	0.40	0.67	1.40	3.22

Typical Performance Data

INPUT POWER DEVIATION FROM IDEAL VS INPUT POWER @ +25°C								
@ 500 MHz					@ 10 GHz			
Pin MEASURED	Vout, MEASURED (V)	Vout, IDEAL (V)	Pin, IDEAL (dBm)	DEVIATION FROM IDEAL (dB)	Vout, MEASURED (V)	Vout, IDEAL (V)	Pin, IDEAL (dBm)	DEVIATION FROM IDEAL (dB)
-30	0.02	0.02	-32.48	-2.48	0.02	0.02	-29.55	0.45
-25	0.03	0.04	-27.50	-2.50	0.04	0.04	-24.35	0.65
-20	0.05	0.06	-21.84	-1.84	0.08	0.07	-19.09	0.91
-15	0.09	0.11	-16.84	-1.84	0.13	0.12	-14.26	0.74
-10	0.19	0.20	-10.43	-0.43	0.23	0.21	-9.30	0.70
-5	0.37	0.36	-4.85	0.15	0.40	0.38	-4.65	0.35
0	0.68	0.65	0.43	0.43	0.69	0.68	0.18	0.18
5	1.22	1.15	5.54	0.54	1.11	1.20	4.28	-0.72
10	2.14	2.04	10.43	0.43	2.05	2.14	9.64	-0.36
15	3.95	3.63	15.72	0.72	3.62	3.80	14.57	-0.43

INPUT POWER DEVIATION FROM IDEAL VS INPUT POWER @ +25°C								
@ 20 GHz					@ 30 GHz			
Pin MEASURED	Vout, MEASURED (V)	Vout, IDEAL (V)	Pin, IDEAL (dBm)	DEVIATION FROM IDEAL (dB)	Vout, MEASURED (V)	Vout, IDEAL (V)	Pin, IDEAL (dBm)	DEVIATION FROM IDEAL (dB)
-30	0.02	0.02	-29.45	0.55	0.02	0.02	-29.84	0.16
-25	0.04	0.04	-24.56	0.44	0.04	0.04	-24.42	0.58
-20	0.08	0.07	-19.17	0.83	0.07	0.07	-19.81	0.19
-15	0.14	0.13	-14.18	0.82	0.12	0.12	-14.79	0.21
-10	0.25	0.23	-9.24	0.76	0.22	0.21	-9.71	0.29
-5	0.43	0.41	-4.56	0.44	0.38	0.37	-4.75	0.25
0	0.75	0.72	0.27	0.27	0.68	0.66	0.26	0.26
5	1.17	1.29	4.19	-0.81	1.03	1.17	3.87	-1.13
10	2.17	2.29	9.52	-0.48	1.96	2.09	9.44	-0.56
15	3.96	4.07	14.75	-0.25	4.00	3.72	15.63	0.63

INPUT POWER DEVIATION FROM IDEAL VS INPUT POWER @ +25°C				
@ 43.5 GHz				
Pin MEASURED	Vout, MEASURED (V)	Vout, IDEAL (V)	Pin, IDEAL (dBm)	DEVIATION FROM IDEAL (dB)
-30	0.01	0.01	-32.31	-2.31
-25	0.02	0.02	-26.04	-1.04
-20	0.04	0.04	-20.83	-0.83
-15	0.07	0.08	-16.01	-1.01
-10	0.12	0.13	-10.99	-0.99
-5	0.22	0.24	-5.66	-0.66
0	0.40	0.43	-0.48	-0.48
5	0.67	0.76	3.94	-1.06
10	1.40	1.35	10.31	0.31
15	3.22	2.40	17.56	2.56

Typical Performance Data

RL vs. FREQUENCY OVER TEMPERATURE			
FREQ	-40°C	+25°C	+85°C
(GHz)	(dB)	(dB)	(dB)
0.5	13.56	12.89	12.43
1.0	14.31	13.67	13.23
3	13.33	13.20	13.09
5	11.16	11.10	11.01
7	10.66	10.95	11.01
9	12.16	12.75	12.99
11	11.18	12.32	13.06
13	8.93	9.89	10.55
15	8.10	8.87	9.47
17	7.80	8.68	9.31
19	7.48	8.47	9.22
21	6.27	7.45	8.36
23	6.60	7.45	8.14
25	5.53	6.59	7.23
27	5.04	5.52	6.04
29	3.48	4.21	4.76
31	3.94	4.38	4.74
33	5.03	6.07	6.62
35	7.27	7.48	7.81
37	4.37	4.99	5.27
39	4.51	4.47	4.63
41	4.62	5.26	5.60
43	6.65	6.55	6.77
43.5	6.51	6.63	6.92