

Typical Performance Data

Output Voltage vs. Input Power @ +25°C								
POWER IN (dBm)	@100MHz (V)	@500MHz (V)	@1000MHz (V)	@5000MHz (V)	@10000MHz (V)	@20000MHz (V)	@30000MHz (V)	@40000MHz (V)
-35	0.05	0.15	0.14	0.12	0.14	0.12	0.12	0.00
-30	0.20	0.30	0.28	0.28	0.28	0.26	0.27	0.01
-25	0.35	0.45	0.43	0.43	0.43	0.41	0.42	0.17
-20	0.50	0.60	0.58	0.58	0.58	0.56	0.57	0.32
-15	0.65	0.74	0.73	0.72	0.72	0.71	0.72	0.47
-10	0.80	0.88	0.87	0.87	0.87	0.85	0.86	0.62
-5	0.93	1.02	1.01	1.01	1.01	1.00	1.01	0.77
0	1.08	1.19	1.18	1.18	1.18	1.17	1.17	0.91

Output Voltage (V) vs. Freq over Temperature									
FREQ (MHz)	@ Input Power = -35 dBm			@ Input Power = -20 dBm			@ Input Power = 0 dBm		
	-40°C	+25°C	+85°C	-40°C	+25°C	+85°C	-40°C	+25°C	+85°C
100	0.07	0.05	0.02	0.51	0.50	0.48	1.08	1.08	1.07
500	0.17	0.15	0.13	0.61	0.60	0.59	1.20	1.19	1.17
1000	0.14	0.14	0.11	0.59	0.58	0.57	1.20	1.18	1.16
2000	0.15	0.13	0.09	0.58	0.57	0.56	1.20	1.17	1.15
4000	0.15	0.15	0.11	0.59	0.59	0.57	1.20	1.18	1.16
6000	0.13	0.13	0.13	0.59	0.58	0.57	1.20	1.18	1.16
8000	0.14	0.14	0.12	0.59	0.58	0.57	1.20	1.18	1.16
10000	0.15	0.14	0.10	0.58	0.58	0.56	1.20	1.18	1.15
12000	0.11	0.09	0.09	0.56	0.55	0.53	1.18	1.14	1.12
14000	0.13	0.12	0.09	0.57	0.57	0.55	1.20	1.16	1.14
16000	0.10	0.11	0.09	0.55	0.55	0.53	1.16	1.14	1.12
18000	0.14	0.11	0.11	0.57	0.57	0.55	1.20	1.17	1.15
20000	0.11	0.12	0.10	0.57	0.56	0.55	1.20	1.17	1.14
22000	0.15	0.13	0.12	0.59	0.59	0.58	1.20	1.19	1.17
24000	0.14	0.12	0.10	0.57	0.57	0.55	1.20	1.17	1.15
26000	0.15	0.15	0.12	0.60	0.59	0.57	1.20	1.20	1.17
28000	0.12	0.09	0.10	0.55	0.54	0.53	1.17	1.14	1.12
30000	0.13	0.12	0.09	0.59	0.57	0.55	1.20	1.17	1.14
32000	0.10	0.08	0.04	0.54	0.52	0.50	1.15	1.11	1.08
34000	0.10	0.05	0.04	0.53	0.51	0.48	1.12	1.09	1.06
36000	0.05	0.00	0.00	0.49	0.46	0.43	1.06	1.03	1.01
38000	0.00	0.00	0.00	0.44	0.40	0.38	1.01	0.98	0.96
40000	0.00	0.00	0.00	0.35	0.32	0.29	0.93	0.91	0.88

Typical Performance Data

Input Power Deviation from Ideal vs. Input Power @ +25°C								
@ 100 MHz					@ 10000 MHz			
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)
-35	0.05	0.05	-35.14	-0.14	0.14	0.13	-34.86	0.14
-30	0.20	0.20	-30.11	-0.11	0.28	0.28	-30.01	-0.01
-25	0.35	0.35	-25.10	-0.10	0.43	0.43	-25.06	-0.06
-20	0.50	0.50	-19.72	0.28	0.58	0.58	-19.98	0.02
-15	0.65	0.64	-14.71	0.29	0.72	0.72	-14.98	0.02
-10	0.80	0.79	-9.85	0.15	0.87	0.87	-10.15	-0.15
-5	0.93	0.94	-5.18	-0.18	1.01	1.02	-5.41	-0.41
0	1.08	1.09	-0.20	-0.20	1.18	1.17	0.46	0.46

Input Power Deviation from Ideal vs. Input Power @ +25°C								
@ 20000 MHz					@ 30000 MHz			
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)
-35	0.12	0.12	-34.84	0.16	0.12	0.12	-35.08	-0.08
-30	0.26	0.26	-30.03	-0.03	0.27	0.27	-29.99	0.01
-25	0.41	0.41	-25.04	-0.04	0.42	0.42	-24.92	0.08
-20	0.56	0.56	-19.94	0.06	0.57	0.57	-19.85	0.15
-15	0.71	0.71	-15.11	-0.11	0.72	0.72	-15.01	-0.01
-10	0.85	0.86	-10.14	-0.14	0.86	0.87	-10.18	-0.18
-5	1.00	1.00	-5.31	-0.31	1.01	1.01	-5.22	-0.22
0	1.17	1.15	0.42	0.42	1.17	1.16	0.22	0.22

Input Power Deviation from Ideal vs. Input Power @ +25°C				
@ 40000 MHz				
Pin Measured	Vout, Measured (V)	Vout, Ideal (V)	Pin, ideal (dBm)	Deviation from ideal (dB)
-35	0.00	-0.13	-30.62	4.38
-30	0.01	0.02	-30.20	-0.20
-25	0.17	0.17	-25.01	-0.01
-20	0.32	0.32	-19.90	0.10
-15	0.47	0.47	-14.83	0.17
-10	0.62	0.62	-9.84	0.16
-5	0.77	0.77	-4.97	0.03
0	0.91	0.92	-0.24	-0.24

Typical Performance Data

POWER IN (dBm)	Slope (mV/dB) vs Input Power Over Temperature								
	Range @ Freq 100MHz			Range @ Freq 2000MHz			Range @ Freq 4000MHz		
	-40°C	+25°C	+85°C	-40°C	+25°C	+85°C	-40°C	+25°C	+85°C
-30	29.44	29.69	31.75	30.79	29.03	28.60	19.50	16.75	14.81
-25	30.03	30.72	29.22	29.72	29.88	29.66	28.63	30.75	29.50
-20	29.22	30.73	31.07	28.85	29.41	30.79	30.16	30.38	29.07
-15	28.35	29.16	31.01	28.44	29.01	29.57	29.76	30.04	30.01
-10	27.75	28.16	28.47	28.32	29.00	29.00	28.75	29.44	30.38
-5	28.82	28.53	28.13	34.91	31.29	29.91	28.28	28.66	29.00

FREQ (MHz)	Slope (mV/dB) vs Frequency Over Temperature								
	@ Input Power = -30dBm			@ Input Power = -20dBm			@ Input Power = -5dBm		
	-40°C	+25°C	+85°C	-40°C	+25°C	+85°C	-40°C	+25°C	+85°C
100	29.44	29.69	31.75	29.22	30.73	31.07	28.82	28.53	28.13
500	29.38	30.57	30.75	27.91	29.10	30.63	32.35	30.79	29.60
1000	30.22	29.53	30.60	28.44	29.66	30.79	33.32	31.04	29.63
2000	28.41	29.13	31.07	28.72	29.85	30.76	34.38	30.94	29.82
4000	29.13	29.10	30.32	28.51	29.32	30.16	33.29	31.41	29.91
6000	30.69	30.35	28.53	28.63	29.38	30.66	33.38	31.57	29.60
8000	30.60	29.35	29.35	28.57	29.69	30.19	33.29	31.54	29.94
10000	29.13	29.03	31.22	28.94	29.85	30.44	33.32	31.44	29.66
12000	29.82	30.16	28.60	28.88	30.01	30.51	33.57	30.32	29.66
14000	29.44	28.72	30.10	28.57	29.94	30.94	34.32	30.85	29.16
16000	30.38	29.10	29.32	28.82	29.82	30.29	32.82	30.47	29.41
18000	28.57	30.53	28.19	28.79	29.01	30.82	34.04	31.04	29.57
20000	30.79	29.03	28.60	28.85	29.41	30.79	34.91	31.29	29.91
22000	30.07	30.07	29.38	28.66	29.72	30.69	32.50	31.97	30.00
24000	28.82	29.44	29.57	28.85	29.57	30.38	34.41	31.57	29.78
26000	30.35	28.63	29.91	29.01	29.69	30.98	31.47	31.94	30.16
28000	28.19	30.16	27.66	29.07	29.85	30.82	34.16	30.91	29.85
30000	30.66	30.35	31.29	28.88	29.63	30.94	33.00	31.07	28.97
32000	29.35	28.78	31.13	29.19	29.97	30.54	32.54	29.63	28.38
34000	28.94	30.79	29.19	29.19	30.10	31.01	30.50	28.72	27.91
36000	28.69	30.69	27.85	29.29	29.82	29.79	28.44	28.03	28.10
38000	28.60	25.69	21.97	29.60	29.47	29.35	28.25	28.28	28.19
40000	19.50	16.75	14.81	30.16	30.38	29.07	28.28	28.66	29.00



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Output Voltage Deviation (mV) vs. Input Power at Frequency = 100 MHz			
POWER IN (dBm)	Temp = +25C	Output Voltage Deviation @-40°C relative to +25°C	Output Voltage Deviation @+85°C relative to +25°C
-35	0	17.19	-31.57
-30	0	10.31	-9.06
-25	0	14.69	-10.94
-20	0	3.44	-24.07
-15	0	-0.31	-7.50
-10	0	-4.69	-5.63
-5	0	-4.38	-4.38
0	0	-1.88	-9.69

Output Voltage Deviation (mV) vs. Input Power at Frequency = 20000 MHz			
POWER IN (dBm)	Temp = +25C	Output Voltage Deviation @-40°C relative to +25°C	Output Voltage Deviation @+85°C relative to +25°C
-35	0	-9.38	-19.69
-30	0	5.31	-13.44
-25	0	8.13	-24.07
-20	0	3.75	-15.63
-15	0	2.50	-10.31
-10	0	-1.88	-10.00
-5	0	-4.38	-10.31
0	0	34.38	-9.69

Output Voltage Deviation (mV) vs. Input Power at Frequency = 40000 MHz			
POWER IN (dBm)	Temp = +25C	Output Voltage Deviation @-40°C relative to +25°C	Output Voltage Deviation @+85°C relative to +25°C
-35	0	-0.63	-0.31
-30	0	45.01	-14.06
-25	0	26.88	-19.69
-20	0	23.75	-26.57
-15	0	24.69	-32.82
-10	0	20.94	-26.88
-5	0	17.81	-23.44
0	0	17.19	-23.44

VSWR vs. Frequency over Temperature			
FREQ (MHz)	-40°C (:1)	+25°C (:1)	+85°C (:1)
100	1.05	1.05	1.05
500	1.07	1.07	1.07
1000	1.09	1.10	1.10
2000	1.21	1.20	1.21
4000	1.39	1.41	1.42
6000	1.46	1.45	1.47
8000	1.37	1.39	1.40
10000	1.78	1.76	1.77
12000	2.27	2.31	2.37
14000	2.62	2.59	2.59
16000	2.49	2.51	2.56
18000	2.31	2.20	2.15
20000	1.98	1.93	1.94
22000	1.63	1.59	1.52
24000	1.75	1.64	1.68
26000	1.78	1.88	1.86
28000	2.58	2.28	2.21
30000	2.34	2.30	2.17
32000	2.10	1.92	1.93
34000	1.50	1.43	1.41
36000	1.17	1.17	1.25
38000	1.46	1.52	1.53
40000	2.22	2.09	2.13

