



Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

PMI MODEL: LM-10M40G-15DBM-4W-AGAL IS A LIMITER PASSIVE HAS BEEN DESIGNED FOR MINIMAL INSERTION LOSS THAT OPERATES OVER THE 10MHz TO 40.0 GHz FREQUENCY RANGE. THIS MODEL IS CAPABLE OF HANDLING AN INPUT POWER OF 5 WATTS CW (20MHz - 12GHz), 4 WATTS (18 GHz) AND 25 WATTS PULSE PEAK (20MHz - 12GHZ), 20WATTS (18GHz) WITH 1 μ S PW, 1% DUTY CYCLE, THIS LIMITER USES 2.92 FEMALE CONNECTORS.



September 9, 2020

Designed By:

Dr. Ashok Gorwara

Tested and Reported By:

Alfredo Lopez



Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

Technical Sheet

DESCRIPTION

PMI MODEL: LM-10M40G-15DBM-4W-AGAL IS AN PASSIVE LIMITER THAT OFFERS AN MINIMAL INSERTION LOSS, WHICH OPERATES OVER THE 10MHz TO 40.0 GHz FREQUENCY RANGE. THIS MODEL IS CAPABLE OF HANDLING AN INPUT POWER OF 5 WATTS CW (20MHz - 12GHz), 4 WATTS (18 GHz) 25 WATTS PULSE PEAK (20MHz - 12GHz), AND 20WATTS (18GHz) WITH 1µs PW , 1% DUTY CYCLE. THIS LIMITER USES 2.92 FEMALE CONNECTORS.

SPECIFICATIONS

- FREQUENCY RANGE: ----- 10MHz TO 40.0 GHz
- POWER HANDLING: ----- 5 Watts CW Max. (20MHz to 12 GHz) (*See Note 1)
4 Watts CW Max. (18 GHz)
- PEAK INPUT POWER: ----- 25 Watts Peak Max (20MHz to 12GHz) (*See Note 2)
20 Watts Peak Max. (18GHz)
(1µs Pw, 1% Duty Cycle)
- RECOVERY TIME: ----- 100 ns Max.
- INSERTION LOSS @ -10 dBm Input Power: ----- 10MHz to 8 GHz = 1.00 dB Max.
8 to 18 GHz = 1.50 dB Max.
18 to 40 GHz = 3.20 dB Max
- VSWR In/ Out @ -10 dBm Input Power: ----- 2.0:1 Max.
- FLAT LEAKAGE POWER: ----- 20MHz to 1GHz = +22 dBm Max.
1 to 4 GHz = +20 dBm Max.
4 to 8 GHz = +18 dBm Max.
8 to 12 GHz = +15 dBm Max.
12 to 18 GHz = +13 dBm Max..
20 to 28 GHz = +13 dBm Max.
28 to 32 GHz = +12 dBm Max
32 to 40 GHz = +12 dBm Max.
- P1dB: ----- +7 dBm Min.
- CONNECTORS: ----- 2.92 FEMALE.
- FINISH GOLD PLATED

* NOTE 1: 5 Watts from 20MHz to 12GHz, 4 Watts at 18GHz, +20dBm to 40GHz (Theoretically it can handle 4 Watts Typical up to 40GHz)

* NOTE 2: No Peak Power testing was performed beyond 18GHz, Theoretically the limiter should handle 20 Watts Typically 1µs PW, 1% Duty Cycle for Frequency Range 18GHz to 40GHz

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -55 °C TO +85 °C (OPERATING)
-65 °C TO +125 °C (NON-OPERATING)
- HUMIDITY: ----- MIL-STD-202, METHOD 103B COND. B
- SHOCK: ----- MIL-STD-202, METHOD 213B COND. B
- VIBRATION: ----- MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: ----- MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLING: ----- MIL-STD-202, METHOD 107A COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	9/9/20	APC
	B1	ECN # 22-0003	1/20/22	
	B2	ECN # 23-0035	2/16/23	

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD

FREDERICK, MARYLAND 21704 USA

TEL: (301)-662-5019, FAX: (301)-662-1731

WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com

ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN		DATE		PRODUCT FEATURE	
APC		9/9/20		LM-10M40G-15DBM-4W-AGAL	
REDRAWN				10MHz to 40.0 GHz High Power Limiter	
ISSUED					
SIZE	FCOM NO.	DWG NO.	REV		
A	05XQ0	27040800	B2		
SCALE	N:S		SHEET	1 OF 2	



Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

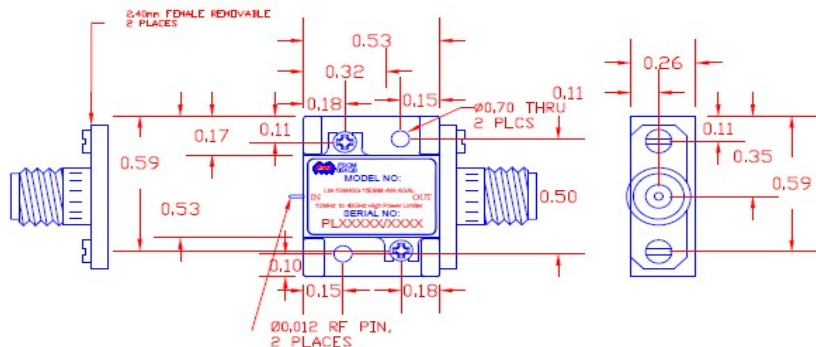
Mechanical Outline

DESCRIPTION

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REVISIONS				
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	A1	ORIGINAL RELEASE	9/9/20	ALB
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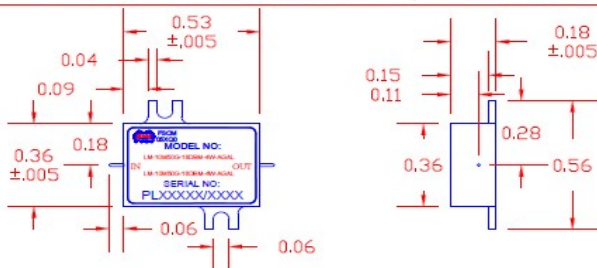
HOUSING WITH CARRIER



MECHANICAL OUTLINE

ALL DIMENSIONS
ARE IN INCH [mm]
TOLERANCES:
X.XX ± 0.020 [0.508]
X.XXX ± 0.010 [0.254]

HOUSING WITHOUT CARRIER (SURFACE MOUNT)



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7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: (301)-662-5019, FAX: (301)-662-1731
WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com
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		TITLE			
		PRODUCT FEATURE			
		LM-10M40G-15DBM-4W-AGAL			
		10MHz to 40.0 GHz High Power Limiter			
ASG		9/9/80			
		SIZE	PMSC NO.	DWG NO.	REV
		A	05XQ0	27040800	B2
		SCALE	N:S	SHEET	2 OF 2



Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

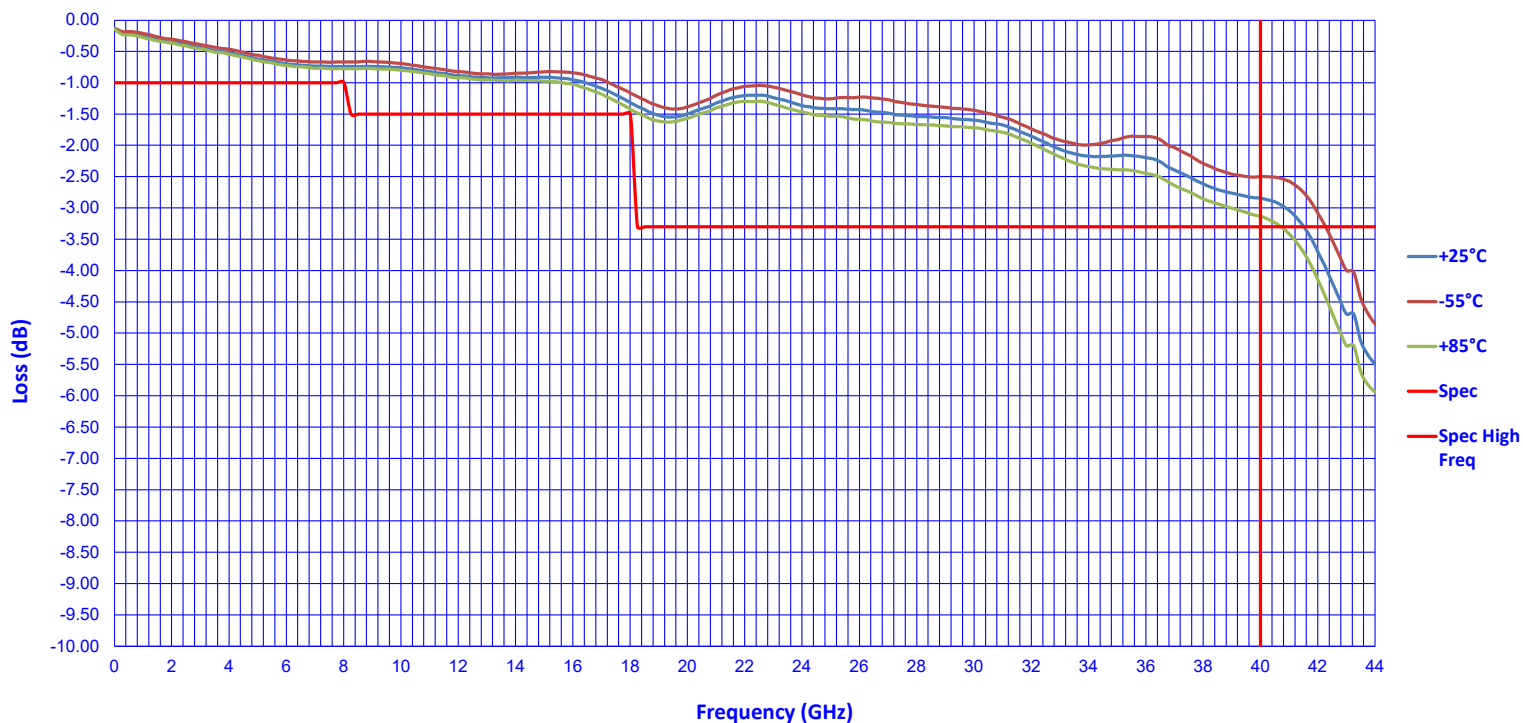
Technical Specifications

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results			QA QC
			+25°C	-55°C	+85°C	
1	Frequency Range:	10MHz to 40 GHz	10MHz to 40GHz	10MHz to 40GHz	10MHz to 40GHz	
2	Power Handling	25 Watts Peak Max.(20MHz to 12GHz) 20 Watts Peak Max. (18GHz) 1µs Pw, 1% Duty Cycle	Pass 25 Watts (20MHz to 12GHz) And 20Watts - (18GHz) See Graphs	Pass 25 Watts (20MHz to 12GHz) And 20Watts - (18GHz) See Graphs	Pass 25 Watts (20MHz to 12GHz) And 20Watts - (18GHz) See Graphs	
		5 Watts CW Max. (20MHz to 12 GHz) 4 Watt CW Max. (18 GHz)	Pass 5 Watts @ 20MHz to 12GHz and 4Watts @ 18GHz See Graphs	Pass 5 Watts @ 20MHz to 12GHz and 4Watts @ 18GHz See Graphs	Pass 5 Watts @ 20MHz to 12GHz and 4Watts @ 18GHz See Graphs	
3	Insertion Loss	10MHz to 8GHz = 1.00 dB Max. 8 to 18 GHz = 1.50 dB Max 18 to 40GHz = 3.20 dB Max.	0.74 dB	0.67 dB	0.78 dB	
			1.32 dB	1.16 dB	1.42 dB	
			2.84 dB	2.51 dB	3.13 dB	
			See Graphs	See Graphs	See Graphs	
4	VSWR (in/out)	2:1 Max. (10MHz to 40GHz)	1.82:1 In	1.82:1 In	1.82:1 In	
			1.81:1 Out	1.8:1 Out	1.81:1 Out	
			See Graphs	See Graphs	See Graphs	
5	Flat Leakage Power	20MHz to 1GHz (+22 dBm Max.)	20.72 dBm	21.27 dBm	19.8 dBm	
		1 to 4GHz (+20 dBm Max.)	18.88 dBm	19.21 dBm	18.71 dBm	
		4 to 8GHz (+18 dBm Max.)	16.61 dBm	17.13 dBm	15.4 dBm	
		8 to 12GHz(+15 dBm Max.)	13.12 dBm	14.2 dBm	12.49 dBm	
		12 to 18GHz(+13 dBm Max.)	10.2 dBm	11.24 dBm	9.68 dBm	
		20 to 28GHz (+13 dBm Max.)	12.24 dBm	12.97 dBm	11.61 dBm	
		28 to 32GHz (+12 dBm Max.)	11.15 dBm	11.79 dBm	10.34 dBm	
		32 to 40 GHz (+12 dBm Max)	10.79 dBm	11.51 dBm	9.95 dBm	
6	P1dB	+7 dBm Min.	8 dBm Min. 13.5 dBm Max. See Graphs	8.5 dBm Min. 15 dBm Min. See Graphs	7.5 dBm Min. 12.5 dBm Min. See Graphs	
7	Recovery Time	100 ns Max.	60 ns See Plots	60 ns See Plots	60 ns See Plots	

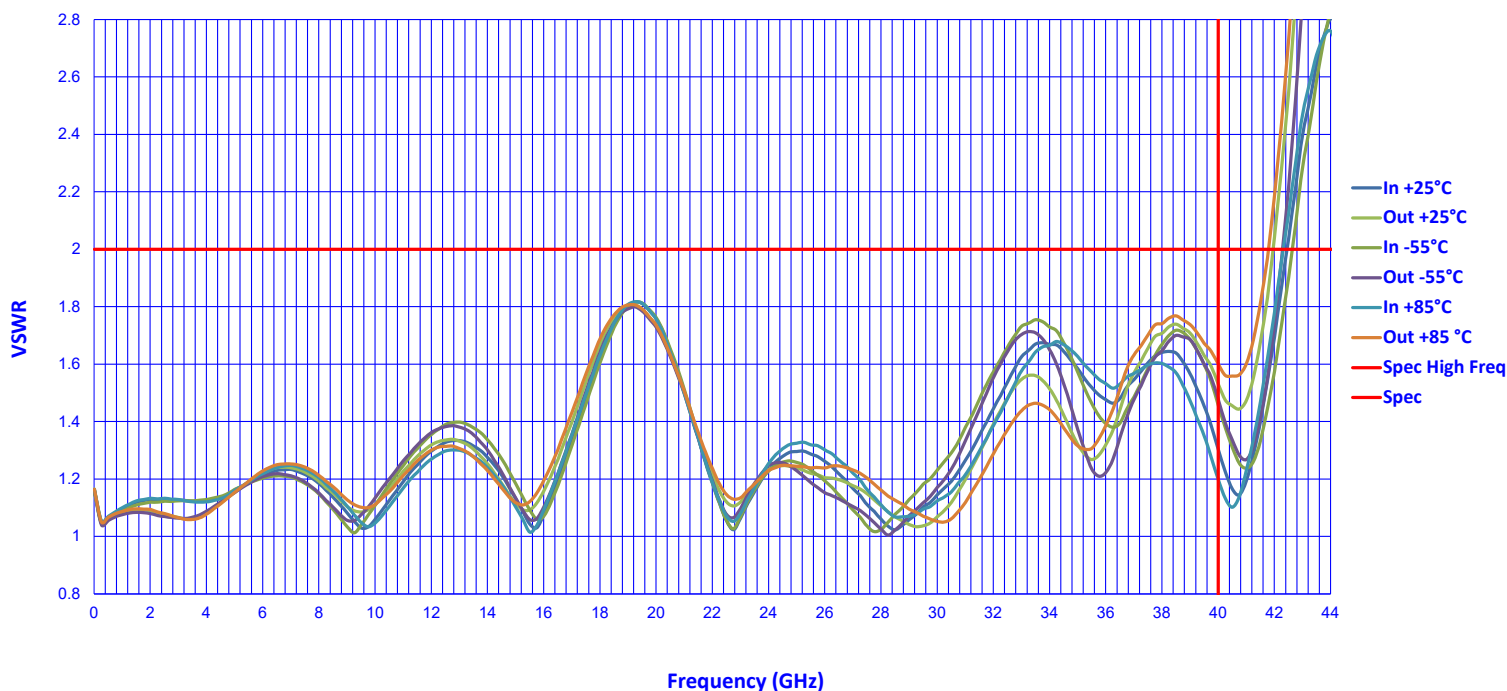


Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

Insertion Loss



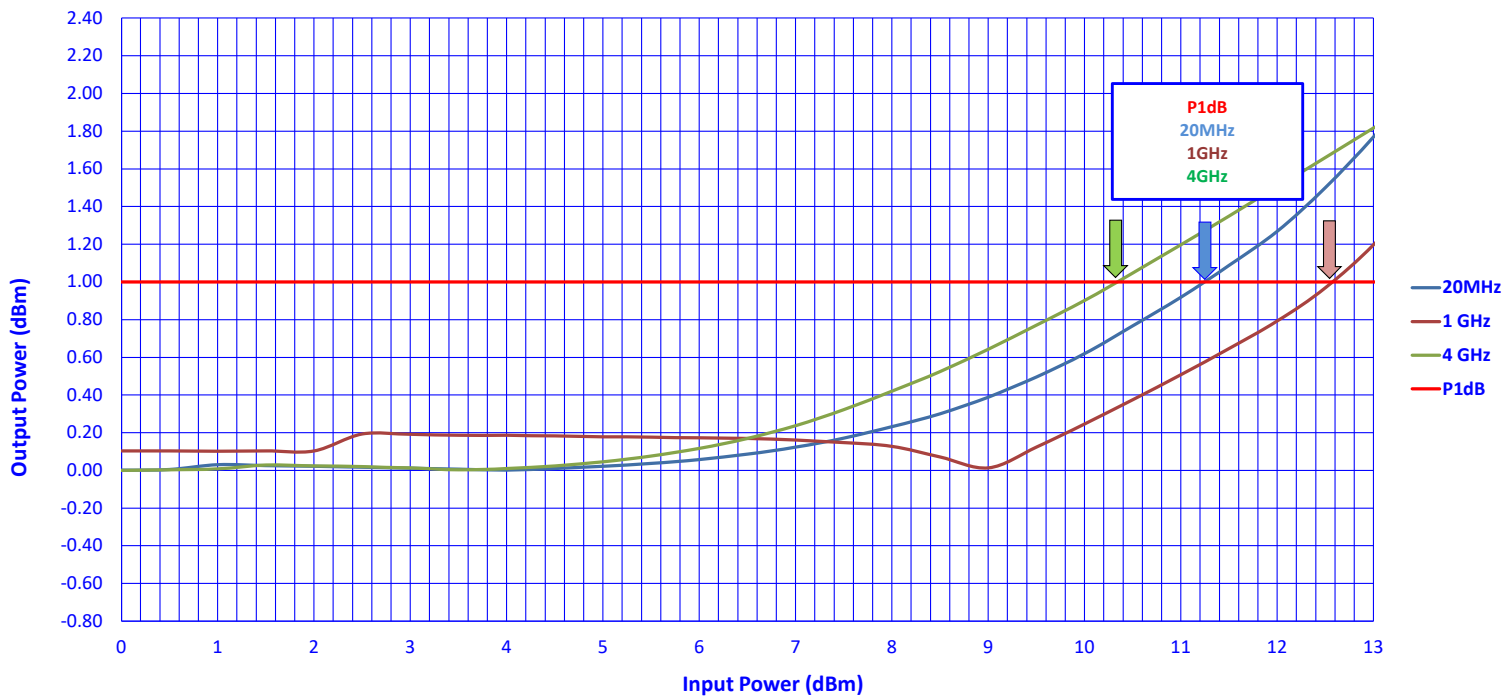
VSWR





Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

P1dB Graph 20MHz to 4GHz @ (+25°C)



P1dB Data (20 MHz to 4GHz)

20MHz				1 GHz				4 GHz			
Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)
0.0	-1.501	1.5005	0.000	0.0	-0.177	0.1774	0.104	0.0	-0.553	0.5530	0.000
0.5	-1.006	1.5056	0.005	0.5	0.322	0.1778	0.103	0.5	-0.056	0.5559	0.003
1.0	-0.471	1.4712	0.030	1.0	0.821	0.1790	0.102	1.0	0.440	0.5604	0.007
1.5	0.024	1.4758	0.025	1.5	1.323	0.1772	0.104	1.5	0.975	0.5255	0.028
2.0	0.521	1.4791	0.022	2.0	1.822	0.1777	0.103	2.0	1.471	0.5292	0.024
2.5	1.016	1.4841	0.017	2.5	2.411	0.0887	0.192	2.5	1.966	0.5340	0.019
3.0	1.511	1.4894	0.012	3.0	2.910	0.0901	0.191	3.0	2.459	0.5408	0.012
3.5	2.005	1.4950	0.006	3.5	3.405	0.0949	0.186	3.5	2.950	0.5502	0.003
4.0	2.498	1.5023	0.001	4.0	3.905	0.0954	0.186	4.0	3.438	0.5618	0.009
4.5	2.989	1.5113	0.010	4.5	4.401	0.0986	0.182	4.5	3.923	0.5767	0.024
5.0	3.477	1.5226	0.022	5.0	4.897	0.1028	0.178	5.0	4.401	0.5989	0.046
5.5	3.963	1.5372	0.036	5.5	5.395	0.1051	0.176	5.5	4.871	0.6290	0.076
6.0	4.441	1.5587	0.058	6.0	5.891	0.1089	0.172	6.0	5.331	0.6691	0.116
6.5	4.913	1.5872	0.086	6.5	6.388	0.1118	0.169	6.5	5.778	0.7217	0.169
7.0	5.376	1.6239	0.123	7.0	6.879	0.1209	0.160	7.0	6.209	0.7906	0.238
7.5	5.828	1.6719	0.171	7.5	7.366	0.1340	0.147	7.5	6.625	0.8746	0.322
8.0	6.268	1.7325	0.232	8.0	7.846	0.1537	0.127	8.0	7.027	0.9734	0.420
8.5	6.699	1.8014	0.300	8.5	8.289	0.2106	0.070	8.5	7.423	1.0773	0.524
9.0	7.110	1.8901	0.389	9.0	8.706	0.2937	0.013	9.0	7.804	1.1961	0.643
9.5	7.503	1.9967	0.496	9.5	9.096	0.4044	0.123	9.5	8.177	1.3233	0.770
10.0	7.880	2.1198	0.619	10.0	9.474	0.5265	0.246	10.0	8.546	1.4543	0.901
10.5	8.232	2.2680	0.767	10.5	9.844	0.6561	0.375	10.5	8.900	1.6000	1.047
11.0	8.580	2.4196	0.919	11.0	10.212	0.7880	0.507	11.0	9.250	1.7505	1.198
11.5	8.911	2.5886	1.088	11.5	10.572	0.9280	0.647	11.5	9.597	1.9029	1.350
12.0	9.231	2.7692	1.268	12.0	10.927	1.0730	0.792	12.0	9.941	2.0587	1.506
12.5	9.499	3.0013	1.500	12.5	11.250	1.2500	0.969	12.5	10.287	2.2130	1.660
13.0	9.730	3.2700	1.769	13.0	11.523	1.4770	1.196	13.0	10.630	2.3700	1.817
13.5	9.926	3.5739	2.073	13.5	11.738	1.7620	1.481	13.5	10.978	2.5220	1.969
14.0	10.110	3.8900	2.389	14.0	11.913	2.0870	1.806	14.0	11.321	2.6790	2.126
14.5	10.281	4.2190	2.718	14.5	12.058	2.4420	2.161	14.5	11.672	2.8280	2.275
15.0	10.433	4.5670	3.066	15.0	12.183	2.8170	2.536	15.0	12.033	2.9670	2.414
15.5	10.548	4.9520	3.451	15.5	12.301	3.1990	2.918	15.5	12.395	3.1050	2.552
16.0	10.623	5.3770	3.876	16.0	12.405	3.5950	3.314	16.0	12.765	3.2350	2.682
16.5	10.655	5.8450	4.344	16.5	12.506	3.9940	3.713	16.5	13.139	3.3610	2.808
17.0	10.666	6.3340	4.833	17.0	12.595	4.4050	4.124	17.0	13.494	3.5060	2.953
17.5	10.675	6.8250	5.324	17.5	12.688	4.8120	4.531	17.5	13.835	3.6650	3.112
18.0	10.678	7.3220	5.821	18.0	12.778	5.2220	4.941	18.0	14.142	3.8580	3.305
18.5	10.686	7.8140	6.313	18.5	12.863	5.6370	5.356	18.5	14.409	4.0910	3.538
19.0	10.689	8.3110	6.810	19.0	12.949	6.0510	5.770	19.0	14.614	4.3860	3.833
19.5	10.700	8.8000	7.299	19.5	12.949	6.5510	6.270	19.5	14.775	4.7250	4.172
20.0	10.717	9.2830	7.782	20.0	12.949	7.0510	6.770	20.0	14.917	5.0830	4.530

7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731

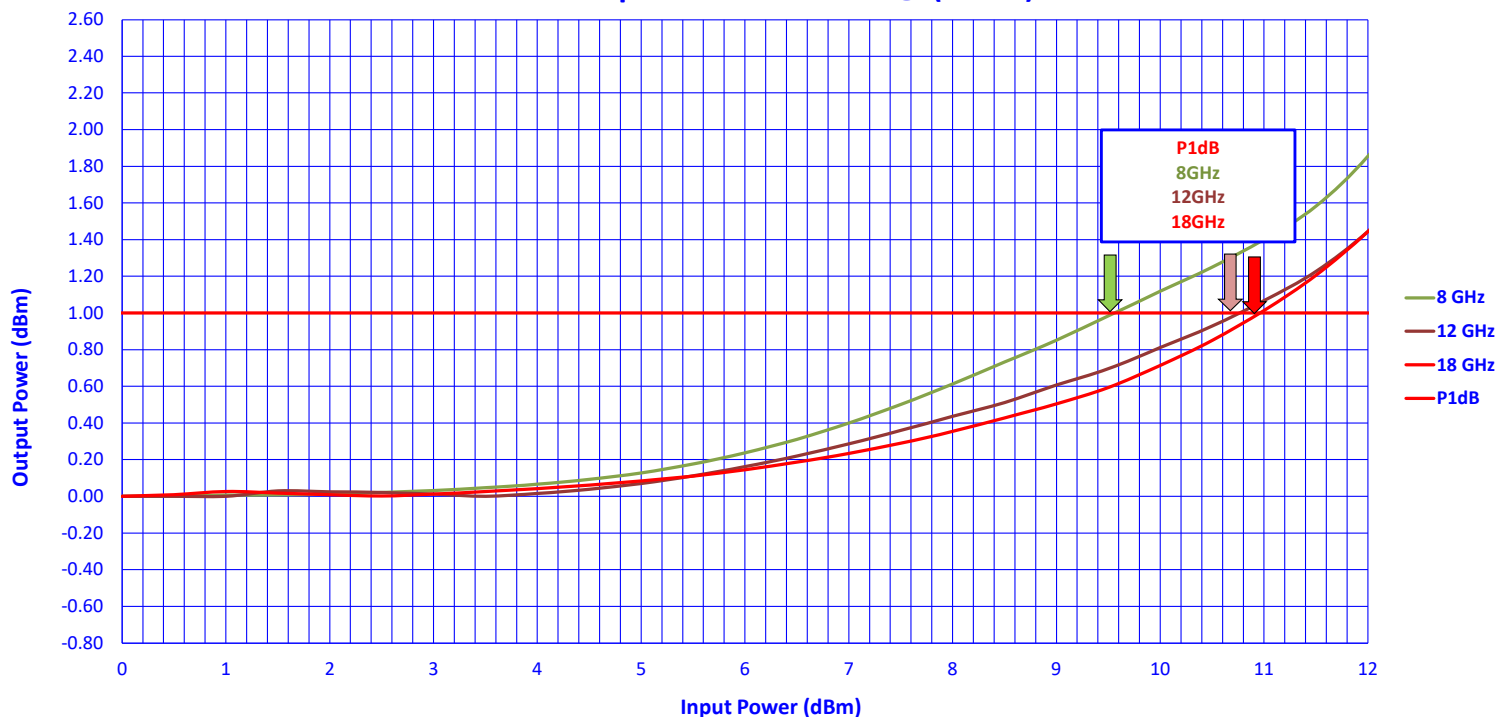
Email: sales@pmi-rf.com





Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

P1dB Graph 8GHz to 18GHz @ (+25°C)



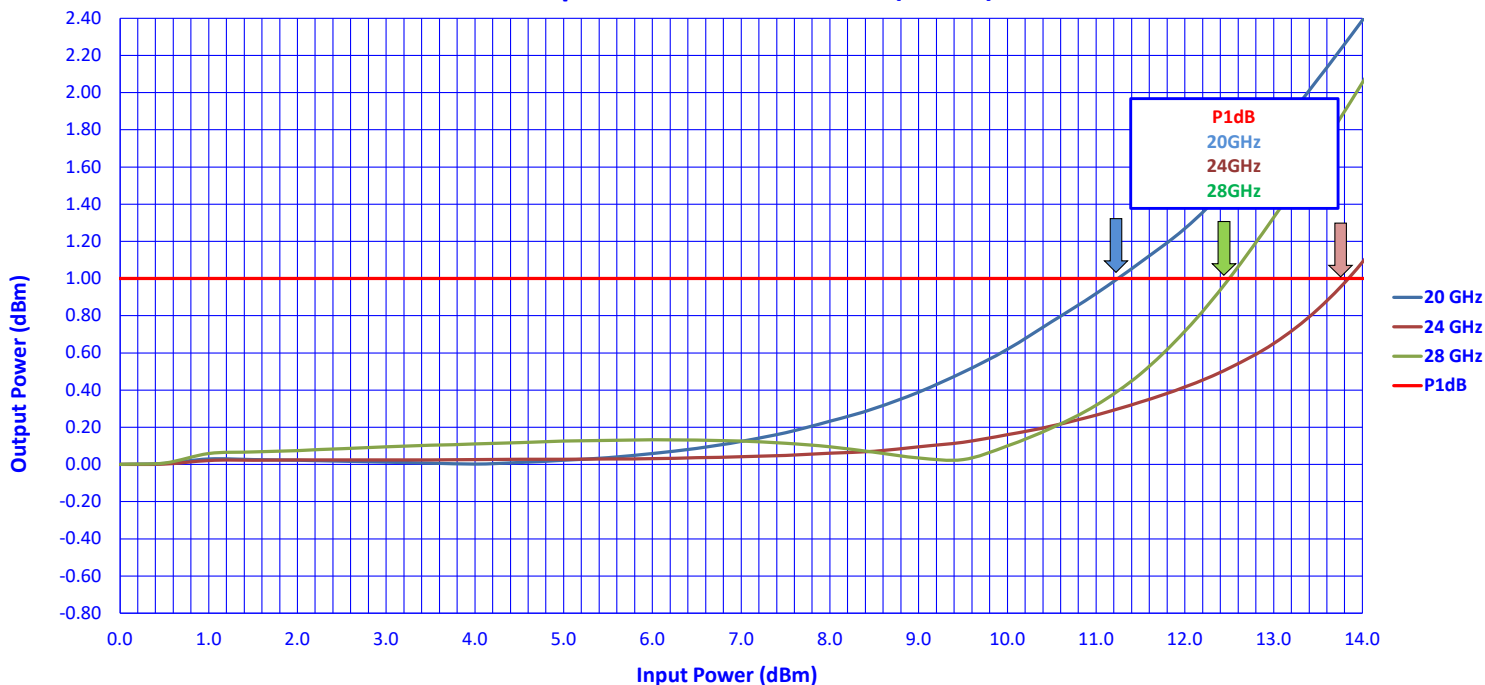
P1dB Data (8 GHz to 18GHz)

8 GHz				12 GHz				18 GHz			
Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)
0.0	-0.803	0.8032	0.000	0.0	-1.060	1.0600	0.000	0.0	-1.433	1.4331	0.000
0.5	-0.306	0.8056	0.003	0.5	-0.560	1.0599	0.000	0.5	-0.942	1.4423	0.009
1.0	0.190	0.8099	0.007	1.0	-0.059	1.0588	0.001	1.0	-0.406	1.4063	0.027
1.5	0.690	0.8096	0.007	1.5	0.469	1.0307	0.029	1.5	0.085	1.4147	0.018
2.0	1.185	0.8155	0.012	2.0	0.965	1.0346	0.025	2.0	0.575	1.4247	0.008
2.5	1.676	0.8237	0.021	2.5	1.461	1.0393	0.021	2.5	1.065	1.4350	0.002
3.0	2.165	0.8348	0.032	3.0	1.952	1.0477	0.012	3.0	1.554	1.4456	0.013
3.5	2.650	0.8497	0.047	3.5	2.441	1.0592	0.001	3.5	2.040	1.4596	0.027
4.0	3.131	0.8692	0.066	4.0	2.924	1.0756	0.016	4.0	2.524	1.4756	0.043
4.5	3.604	0.8956	0.093	4.5	3.401	1.0993	0.039	4.5	3.005	1.4946	0.062
5.0	4.069	0.9312	0.128	5.0	3.870	1.1301	0.070	5.0	3.482	1.5176	0.085
5.5	4.521	0.9795	0.177	5.5	4.328	1.1717	0.112	5.5	3.956	1.5440	0.111
6.0	4.960	1.0404	0.237	6.0	4.778	1.2218	0.162	6.0	4.421	1.5787	0.146
6.5	5.385	1.1148	0.312	6.5	5.220	1.2803	0.220	6.5	4.880	1.6199	0.187
7.0	5.797	1.2030	0.400	7.0	5.653	1.3469	0.287	7.0	5.333	1.6675	0.235
7.5	6.196	1.3041	0.501	7.5	6.081	1.4193	0.359	7.5	5.777	1.7230	0.290
8.0	6.584	1.4164	0.613	8.0	6.504	1.4963	0.436	8.0	6.213	1.7871	0.354
8.5	6.964	1.5356	0.733	8.5	6.928	1.5722	0.512	8.5	6.639	1.8614	0.428
9.0	7.345	1.6554	0.852	9.0	7.333	1.6670	0.607	9.0	7.063	1.9372	0.504
9.5	7.712	1.7878	0.985	9.5	7.744	1.7565	0.697	9.5	7.473	2.0274	0.594
10.0	8.079	1.9214	1.118	10.0	8.129	1.8711	0.811	10.0	7.852	2.1476	0.715
10.5	8.447	2.0531	1.250	10.5	8.512	1.9884	0.928	10.5	8.217	2.2835	0.851
11.0	8.796	2.2043	1.401	11.0	8.872	2.1280	1.068	11.0	8.552	2.4476	1.015
11.5	9.114	2.3858	1.583	11.5	9.213	2.2871	1.227	11.5	8.860	2.6401	1.207
12.0	9.342	2.6583	1.855	12.0	9.495	2.5051	1.445	12.0	9.123	2.8768	1.444
12.5	9.463	3.0368	2.234	12.5	9.713	2.7869	1.727	12.5	9.341	3.1589	1.726
13.0	9.503	3.4971	2.694	13.0	9.873	3.1275	2.068	13.0	9.512	3.4876	2.055
13.5	9.523	3.9774	3.174	13.5	9.976	3.5244	2.464	13.5	9.649	3.8511	2.418
14.0	9.562	4.4382	3.635	14.0	10.056	3.9440	2.884	14.0	9.768	4.2325	2.800
14.5	9.608	4.8916	4.089	14.5	10.119	4.3810	3.321	14.5	9.873	4.6271	3.194
15.0	9.677	5.3227	4.520	15.0	10.168	4.8320	3.772	15.0	9.963	5.0374	3.604
15.5	9.760	5.7399	4.937	15.5	10.194	5.3060	4.246	15.5	10.034	5.4660	4.033
16.0	9.856	6.1440	5.341	16.0	10.203	5.7970	4.737	16.0	10.085	5.9150	4.482
16.5	9.964	6.5360	5.733	16.5	10.203	6.2970	5.237	16.5	10.108	6.3920	4.959
17.0	10.083	6.9170	6.114	17.0	10.184	6.8160	5.756	17.0	10.120	6.8800	5.447
17.5	10.212	7.2880	6.485	17.5	10.158	7.3420	6.282	17.5	10.130	7.3700	5.937
18.0	10.354	7.6460	6.843	18.0	10.135	7.8650	6.805	18.0	10.143	7.8570	6.424
18.5	10.505	7.9950	7.192	18.5	10.112	8.3880	7.328	18.5	10.152	8.3480	6.915
19.0	10.668	8.3320	7.529	19.0	10.102	8.8980	7.838	19.0	10.174	8.8260	7.393
19.5	10.843	8.6570	7.854	19.5	10.099	9.4010	8.341	19.5	10.174	9.3260	7.893
20.0	11.022	8.9780	8.175	20.0	10.102	9.8980	8.838	20.0	10.180	9.8200	8.387



Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

P1dB Graph 20GHz to 28GHz @ (+25°C)

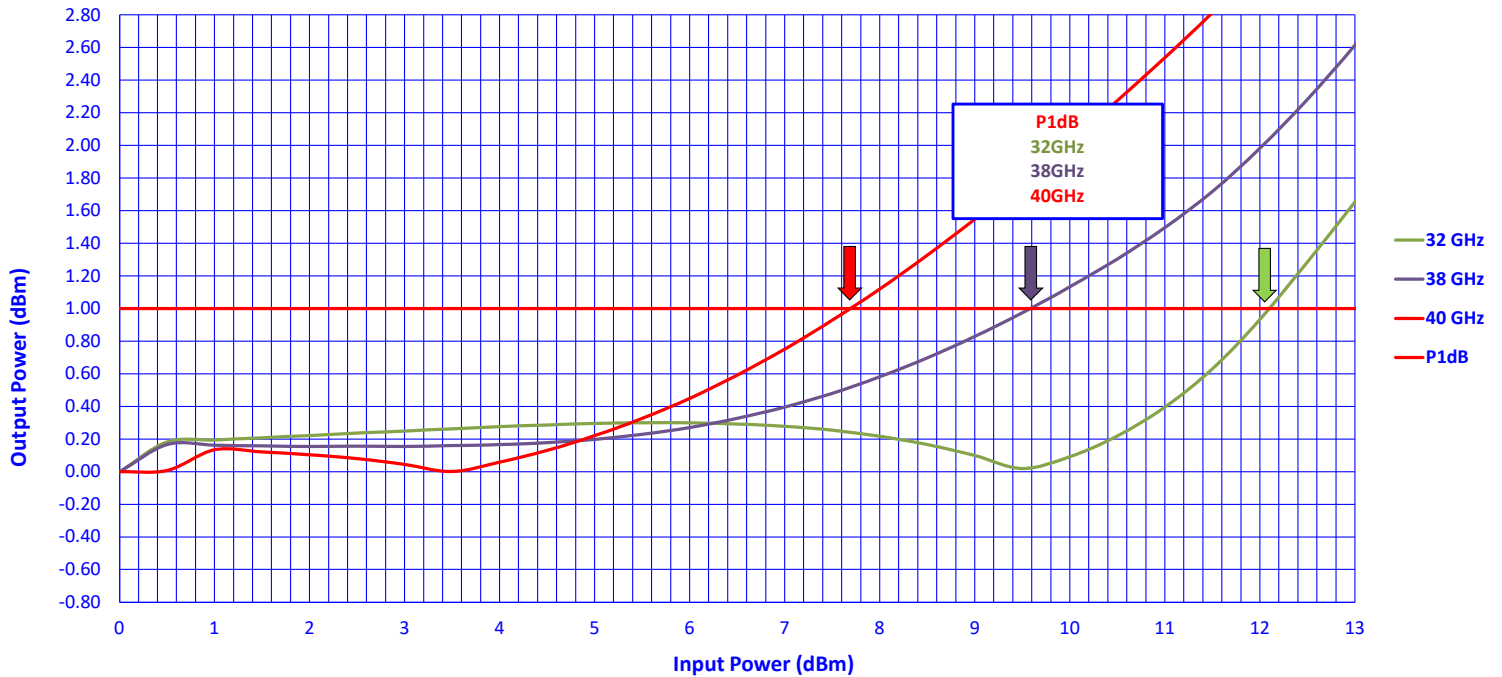


P1dB Data (20GHz to 28GHz)											
20 GHz				24 GHz				28 GHz			
Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)
0.0	-1.501	1.5005	0.000	0.0	-1.762	1.7620	0.000	0.0	-1.612	1.6117	0.000
0.5	-1.006	1.5056	0.005	0.5	-1.263	1.7628	0.001	0.5	-1.105	1.6049	0.007
1.0	-0.471	1.4712	0.030	1.0	-0.783	1.7832	0.021	1.0	-0.554	1.5535	0.059
1.5	0.024	1.4758	0.025	1.5	-0.285	1.7845	0.023	1.5	-0.046	1.5458	0.066
2.0	0.521	1.4791	0.022	2.0	0.214	1.7858	0.024	2.0	0.462	1.5376	0.074
2.5	1.016	1.4841	0.017	2.5	0.714	1.7856	0.024	2.5	0.973	1.5272	0.085
3.0	1.511	1.4894	0.012	3.0	1.214	1.7863	0.024	3.0	1.482	1.5178	0.094
3.5	2.005	1.4950	0.006	3.5	1.714	1.7861	0.024	3.5	1.991	1.5094	0.103
4.0	2.498	1.5023	0.001	4.0	2.212	1.7876	0.026	4.0	2.498	1.5023	0.110
4.5	2.989	1.5113	0.010	4.5	2.711	1.7890	0.027	4.5	3.006	1.4945	0.118
5.0	3.477	1.5226	0.022	5.0	3.210	1.7897	0.028	5.0	3.513	1.4875	0.125
5.5	3.963	1.5372	0.036	5.5	3.709	1.7910	0.029	5.5	4.017	1.4833	0.129
6.0	4.441	1.5587	0.058	6.0	4.208	1.7924	0.030	6.0	4.519	1.4806	0.131
6.5	4.913	1.5872	0.086	6.5	4.703	1.7972	0.035	6.5	5.018	1.4821	0.130
7.0	5.376	1.6239	0.123	7.0	5.198	1.8024	0.040	7.0	5.513	1.4873	0.125
7.5	5.828	1.6719	0.171	7.5	5.689	1.8107	0.049	7.5	6.001	1.4986	0.113
8.0	6.268	1.7325	0.232	8.0	6.178	1.8219	0.060	8.0	6.482	1.5178	0.094
8.5	6.699	1.8014	0.300	8.5	6.667	1.8327	0.071	8.5	6.953	1.5471	0.065
9.0	7.110	1.8901	0.389	9.0	7.144	1.8565	0.094	9.0	7.423	1.5775	0.035
9.5	7.503	1.9967	0.496	9.5	7.619	1.8809	0.119	9.5	7.862	1.6378	0.026
10.0	7.880	2.1198	0.619	10.0	8.079	1.9211	0.159	10.0	8.289	1.7114	0.099
10.5	8.232	2.2680	0.767	10.5	8.532	1.9676	0.206	10.5	8.692	1.8083	0.196
11.0	8.580	2.4196	0.919	11.0	8.973	2.0274	0.265	11.0	9.070	1.9304	0.318
11.5	8.911	2.5886	1.088	11.5	9.403	2.0970	0.335	11.5	9.401	2.0995	0.488
12.0	9.231	2.7692	1.268	12.0	9.823	2.1775	0.416	12.0	9.673	2.3274	0.715
12.5	9.499	3.0013	1.500	12.5	10.220	2.2800	0.518	12.5	9.888	2.6123	1.000
13.0	9.730	3.2700	1.769	13.0	10.588	2.4120	0.650	13.0	10.060	2.9400	1.328
13.5	9.926	3.5739	2.073	13.5	10.903	2.5970	0.835	13.5	10.212	3.2880	1.676
14.0	10.110	3.8900	2.389	14.0	11.151	2.8490	1.087	14.0	10.335	3.6650	2.053
14.5	10.281	4.2190	2.718	14.5	11.321	3.1790	1.417	14.5	10.442	4.0580	2.446
15.0	10.433	4.5670	3.066	15.0	11.438	3.5620	1.800	15.0	10.543	4.4570	2.845
15.5	10.548	4.9520	3.451	15.5	11.523	3.9770	2.215	15.5	10.633	4.8670	3.255
16.0	10.623	5.3770	3.876	16.0	11.610	4.3900	2.628	16.0	10.720	5.2800	3.668
16.5	10.655	5.8450	4.344	16.5	11.725	4.7750	3.013	16.5	10.806	5.6940	4.082
17.0	10.666	6.3340	4.833	17.0	11.847	5.1530	3.391	17.0	10.887	6.1130	4.501
17.5	10.675	6.8250	5.324	17.5	11.965	5.5350	3.773	17.5	10.967	6.5330	4.921
18.0	10.678	7.3220	5.821	18.0	12.062	5.9380	4.176	18.0	11.045	6.9550	5.343
18.5	10.686	7.8140	6.313	18.5	12.136	6.3640	4.602	18.5	11.108	7.3920	5.780
19.0	10.689	8.3110	6.810	19.0	12.189	6.8110	5.049	19.0	11.147	7.8530	6.241
19.5	10.700	8.8000	7.299	19.5	12.219	7.2810	5.519	19.5	11.153	8.3470	6.735
20.0	10.717	9.2830	7.782	20.0	12.243	7.7570	5.995	20.0	11.147	8.8530	7.241



Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

P1dB Graph 32GHz to 40GHz @ (+25°C)

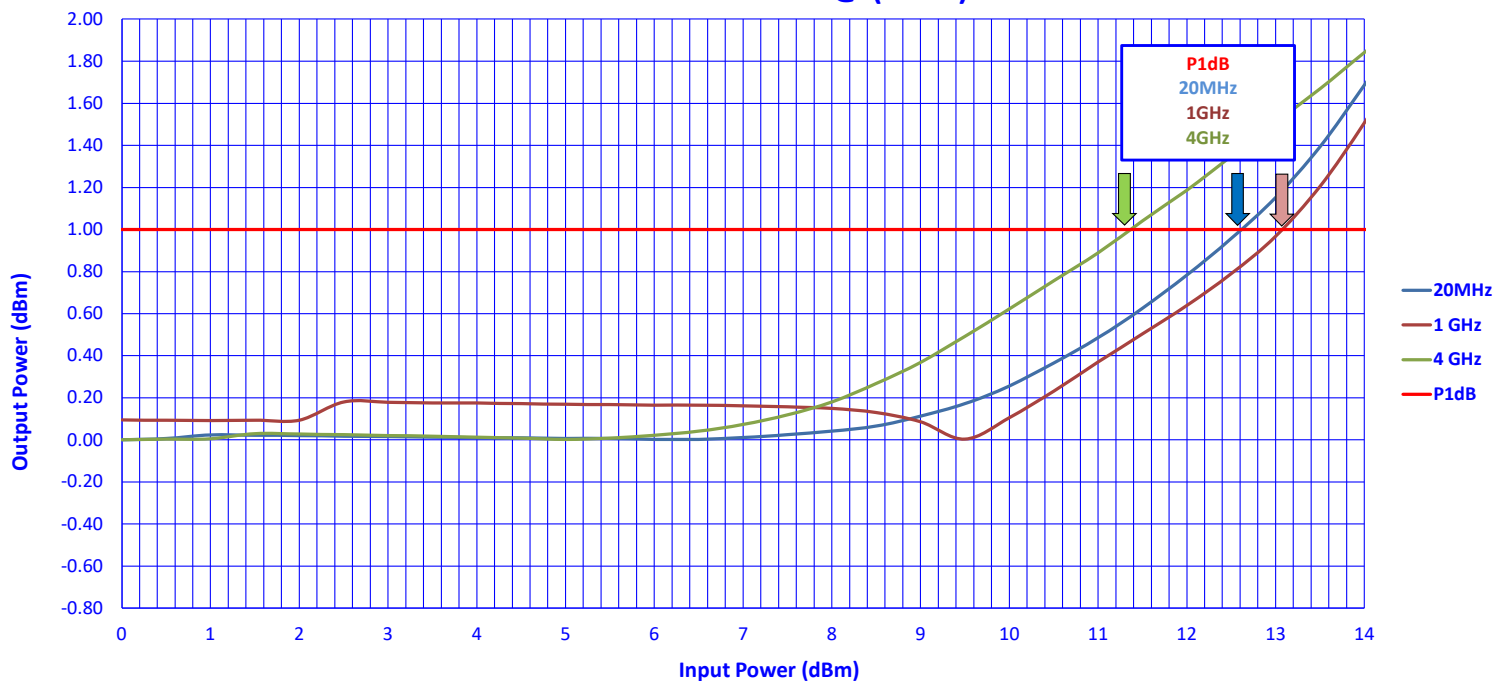


P1dB Data (32GHz to 40GHz)											
32 GHz				38 GHz				40 GHz			
Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)
0.0	-1.539	1.5392	0.000	0.0	-2.676	2.6761	0.000	0.0	-3.613	3.6133	0.000
0.5	-0.857	1.3569	0.182	0.5	-2.342	2.8417	0.166	0.5	-3.121	3.6205	0.007
1.0	-0.345	1.3445	0.195	1.0	-1.838	2.8381	0.162	1.0	-2.478	3.4784	0.135
1.5	0.169	1.3309	0.208	1.5	-1.334	2.8341	0.158	1.5	-1.993	3.4927	0.120
2.0	0.683	1.3172	0.222	2.0	-0.831	2.8307	0.155	2.0	-1.509	3.5090	0.104
2.5	1.197	1.3031	0.236	2.5	-0.332	2.8319	0.156	2.5	-1.034	3.5340	0.079
3.0	1.710	1.2896	0.249	3.0	0.169	2.8306	0.155	3.0	-0.568	3.5682	0.045
3.5	2.224	1.2765	0.263	3.5	0.665	2.8355	0.160	3.5	-0.114	3.6136	0.001
4.0	2.737	1.2629	0.276	4.0	1.159	2.8414	0.165	4.0	0.329	3.6715	0.059
4.5	3.248	1.2523	0.287	4.5	1.646	2.8538	0.178	4.5	0.757	3.7432	0.130
5.0	3.756	1.2439	0.295	5.0	2.126	2.8740	0.198	5.0	1.167	3.8333	0.220
5.5	4.261	1.2390	0.300	5.5	2.595	2.9055	0.230	5.5	1.561	3.9391	0.326
6.0	4.760	1.2398	0.299	6.0	3.053	2.9468	0.271	6.0	1.938	4.0625	0.450
6.5	5.254	1.2463	0.293	6.5	3.497	3.0029	0.327	6.5	2.294	4.2057	0.593
7.0	5.739	1.2610	0.278	7.0	3.928	3.0723	0.396	7.0	2.636	4.3644	0.751
7.5	6.215	1.2852	0.254	7.5	4.343	3.1567	0.481	7.5	2.959	4.5412	0.928
8.0	6.678	1.3223	0.217	8.0	4.743	3.2571	0.581	8.0	3.267	4.7327	1.120
8.5	7.126	1.3737	0.165	8.5	5.127	3.3730	0.697	8.5	3.560	4.9400	1.327
9.0	7.560	1.4397	0.099	9.0	5.496	3.5042	0.828	9.0	3.840	5.1603	1.547
9.5	7.981	1.5195	0.020	9.5	5.850	3.6501	0.974	9.5	4.108	5.3921	1.779
10.0	8.369	1.6307	0.092	10.0	6.192	3.8083	1.132	10.0	4.364	5.6356	2.023
10.5	8.742	1.7581	0.219	10.5	6.520	3.9805	1.305	10.5	4.612	5.8879	2.275
11.0	9.066	1.9343	0.395	11.0	6.829	4.1713	1.495	11.0	4.849	6.1510	2.538
11.5	9.330	2.1696	0.631	11.5	7.106	4.3937	1.718	11.5	5.074	6.4263	2.813
12.0	9.528	2.4724	0.933	12.0	7.342	4.6578	1.982	12.0	5.280	6.7197	3.107
12.5	9.674	2.8259	1.287	12.5	7.541	4.9586	2.283	12.5	5.455	7.0448	3.432
13.0	9.808	3.1924	1.653	13.0	7.710	5.2897	2.614	13.0	5.607	7.3933	3.780
13.5	9.921	3.5788	2.040	13.5	7.846	5.6544	2.978	13.5	5.754	7.7462	4.133
14.0	10.031	3.9690	2.430	14.0	7.939	6.0614	3.385	14.0	5.872	8.1276	4.515
14.5	10.135	4.3650	2.826	14.5	8.009	6.4913	3.815	14.5	5.957	8.5426	4.930
15.0	10.233	4.7670	3.228	15.0	8.071	6.9291	4.253	15.0	6.015	8.9848	5.372
15.5	10.329	5.1710	3.632	15.5	8.119	7.3813	4.705	15.5	6.049	9.4507	5.838
16.0	10.426	5.5740	4.035	16.0	8.179	7.8207	5.145	16.0	6.061	9.9389	6.326
16.5	10.518	5.9820	4.443	16.5	8.239	8.2609	5.585	16.5	6.055	10.4450	6.832
17.0	10.611	6.3890	4.850	17.0	8.279	8.7214	6.045	17.0	6.034	10.9659	7.353
17.5	10.692	6.8080	5.269	17.5	8.279	9.2214	6.545	17.5	6.029	11.4708	7.858
18.0	10.756	7.2440	5.705	18.0	8.266	9.7345	7.059	18.0	6.030	11.9704	8.357
18.5	10.789	7.7110	6.172	18.5	8.246	10.2543	7.578	18.5	6.030	12.4704	8.857
19.0	10.789	8.2110	6.672	19.0	8.246	10.7543	8.078	19.0	6.030	12.9704	9.357
19.5	10.789	8.7110	7.172	19.5	8.246	11.2543	8.578	19.5	6.030	13.4704	9.857
20.0	10.785	9.2150	7.676	20.0	8.246	11.7543	9.078	20.0	6.030	13.9704	10.357



Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

P1dB 20MHz to 4GHz @ (-55°C)

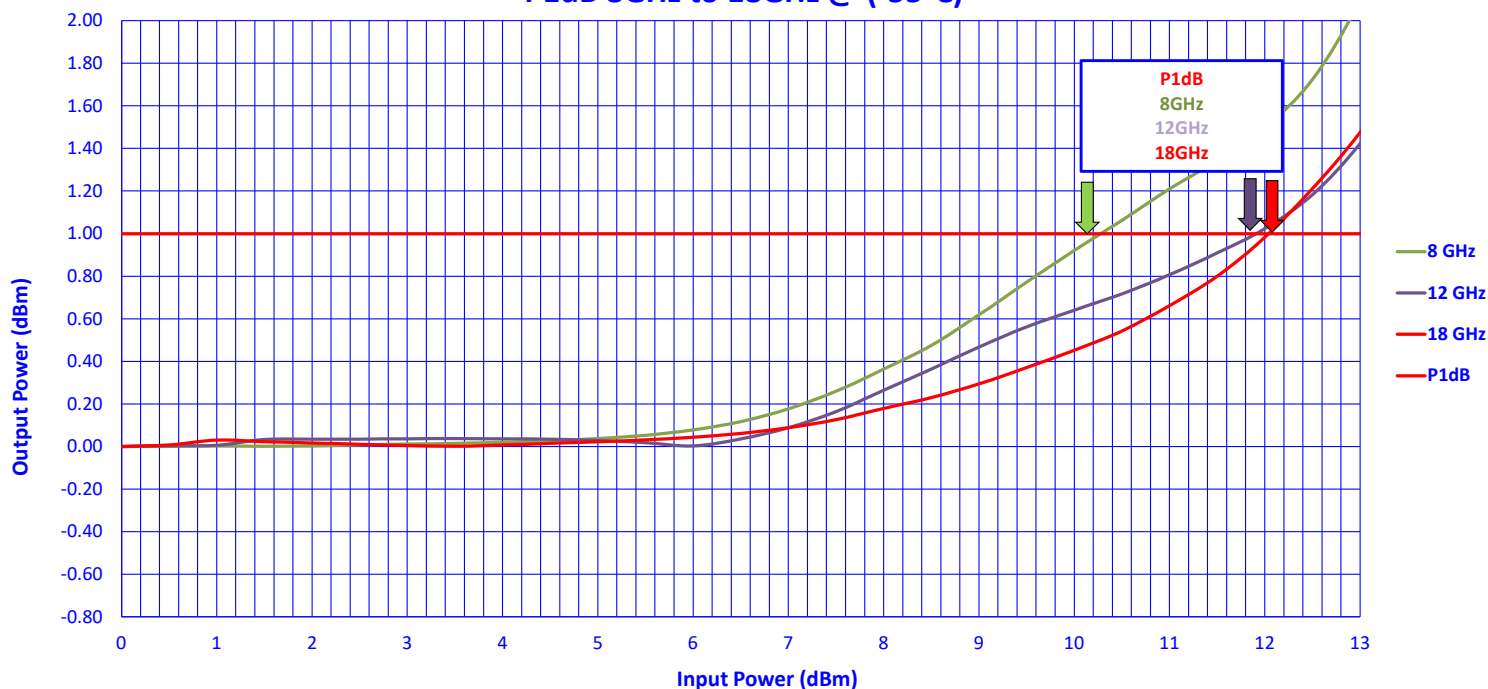


P1dB Data (20 MHz to 4GHz)											
20MHz				1 GHz				4 GHz			
Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)
0.0	-0.244	1.3315	0.000	0.0	-0.150	0.1502	0.094	0.0	-0.478	0.4775	0.000
0.5	0.257	1.3370	0.006	0.5	0.349	0.1514	0.093	0.5	0.020	0.4805	0.003
1.0	0.756	1.3079	0.024	1.0	0.847	0.1527	0.091	1.0	0.518	0.4824	0.005
1.5	1.256	1.3100	0.021	1.5	1.350	0.1504	0.094	1.5	1.052	0.4478	0.030
2.0	1.857	1.3114	0.020	2.0	1.850	0.1505	0.093	2.0	1.549	0.4506	0.027
2.5	2.354	1.3144	0.017	2.5	2.436	0.0636	0.180	2.5	2.047	0.4534	0.024
3.0	2.854	1.3163	0.015	3.0	2.935	0.0655	0.179	3.0	2.543	0.4570	0.021
3.5	3.353	1.3185	0.013	3.5	3.431	0.0690	0.175	3.5	3.039	0.4608	0.017
4.0	3.851	1.3215	0.010	4.0	3.931	0.0695	0.175	4.0	3.535	0.4647	0.013
4.5	4.353	1.3225	0.009	4.5	4.427	0.0726	0.171	4.5	4.030	0.4696	0.008
5.0	4.850	1.3246	0.007	5.0	4.925	0.0752	0.169	5.0	4.524	0.4760	0.002
5.5	5.351	1.3252	0.006	5.5	5.423	0.0771	0.167	5.5	5.014	0.4856	0.008
6.0	5.847	1.3292	0.002	6.0	5.921	0.0790	0.165	6.0	5.501	0.4992	0.022
6.5	6.342	1.3339	0.002	6.5	6.421	0.0789	0.165	6.5	5.982	0.5181	0.041
7.0	6.834	1.3424	0.011	7.0	6.918	0.0823	0.162	7.0	6.449	0.5506	0.073
7.5	7.315	1.3555	0.024	7.5	7.413	0.0875	0.157	7.5	6.904	0.5959	0.118
8.0	7.769	1.3727	0.041	8.0	7.906	0.0943	0.150	8.0	7.342	0.6578	0.180
8.5	8.180	1.3965	0.065	8.5	8.386	0.1144	0.130	8.5	7.755	0.7451	0.268
9.0	8.566	1.4441	0.113	9.0	8.842	0.1584	0.086	9.0	8.154	0.8457	0.368
9.5	8.920	1.5028	0.171	9.5	9.259	0.2415	0.002	9.5	8.530	0.9697	0.492
10.0	9.261	1.5879	0.256	10.0	9.651	0.3492	0.105	10.0	8.900	1.1000	0.623
10.5	9.597	1.6962	0.365	10.5	10.025	0.4750	0.231	10.5	9.267	1.2331	0.756
11.0	9.917	1.8168	0.485	11.0	10.386	0.6140	0.370	11.0	9.633	1.3668	0.889
11.5	10.238	1.9569	0.625	11.5	10.753	0.7470	0.503	11.5	9.982	1.5180	1.041
12.0	10.561	2.1144	0.783	12.0	11.117	0.8830	0.639	12.0	10.335	1.6650	1.188
12.5	10.879	2.2880	0.957	12.5	11.466	1.0340	0.790	12.5	10.675	1.8250	1.348
13.0	11.181	2.4840	1.153	13.0	11.789	1.2110	0.967	13.0	11.013	1.9870	1.510
13.5	11.443	2.7250	1.394	13.5	12.051	1.4490	1.205	13.5	11.354	2.1460	1.669
14.0	11.659	3.0170	1.686	14.0	12.249	1.7510	1.507	14.0	11.682	2.3180	1.841
14.5	11.839	3.3160	1.985	14.5	12.409	2.0910	1.847	14.5	12.017	2.4830	2.006
15.0	12.000	3.6410	2.310	15.0	12.543	2.4570	2.213	15.0	12.358	2.6420	2.165
15.5	12.149	4.0000	2.669	15.5	12.657	2.8430	2.599	15.5	12.710	2.7900	2.313
16.0	12.305	4.4240	3.093	16.0	12.760	3.2400	2.996	16.0	13.072	2.9280	2.451
16.5	12.467	4.8870	3.556	16.5	12.863	3.6370	3.393	16.5	13.446	3.0540	2.577
17.0	12.637	5.3780	4.047	17.0	12.954	4.0460	3.802	17.0	13.827	3.1730	2.696
17.5	12.820	5.8850	4.554	17.5	13.042	4.4580	4.214	17.5	14.200	3.3000	2.823
18.0	13.025	6.3870	5.056	18.0	13.132	4.8680	4.624	18.0	14.558	3.4420	2.965
18.5	13.250	6.8960	5.565	18.5	13.214	5.2860	5.042	18.5	14.896	3.6040	3.127
19.0	13.491	7.3960	6.065	19.0	13.297	5.7030	5.459	19.0	15.184	3.8160	3.339
19.5	13.733	7.8910	6.560	19.5	13.297	6.2030	5.959	19.5	15.400	4.1000	3.623
20.0	13.982	8.3800	7.049	20.0	13.297	6.7030	6.459	20.0	15.561	4.4390	3.962



Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

P1dB 8GHz to 18GHz @ (-55°C)



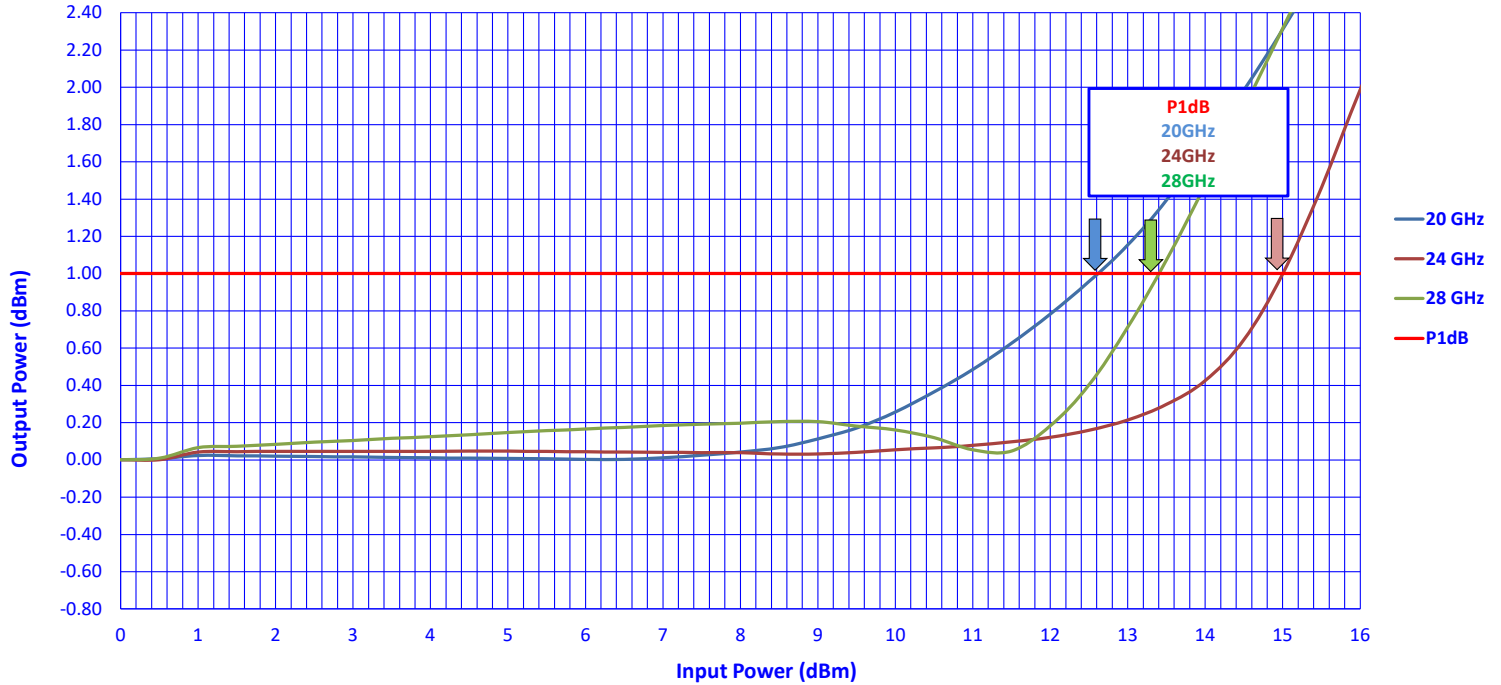
P1dB Data (8 GHz to 18GHz)											
8 GHz				12 GHz				18 GHz			
Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)
0.0	-0.693	0.6932	0.000	0.0	-0.968	0.9680	0.000	0.0	-1.239	1.2390	0.000
0.5	-0.195	0.6952	0.002	0.5	-0.464	0.9644	0.004	0.5	-0.747	1.2467	0.008
1.0	0.304	0.6963	0.003	1.0	0.039	0.9615	0.006	1.0	-0.208	1.2083	0.031
1.5	0.806	0.6941	0.001	1.5	0.565	0.9347	0.033	1.5	0.285	1.2155	0.024
2.0	1.303	0.6967	0.004	2.0	1.067	0.9335	0.035	2.0	0.778	1.2219	0.017
2.5	1.799	0.7007	0.008	2.5	1.567	0.9328	0.035	2.5	1.272	1.2279	0.011
3.0	2.295	0.7046	0.012	3.0	2.069	0.9311	0.037	3.0	1.766	1.2345	0.005
3.5	2.791	0.7086	0.016	3.5	2.569	0.9309	0.037	3.5	2.259	1.2409	0.002
4.0	3.287	0.7131	0.020	4.0	3.069	0.9314	0.037	4.0	2.754	1.2464	0.007
4.5	3.780	0.7201	0.027	4.5	3.567	0.9335	0.035	4.5	3.246	1.2539	0.015
5.0	4.270	0.7303	0.037	5.0	4.061	0.9389	0.029	5.0	3.738	1.2620	0.023
5.5	4.754	0.7465	0.054	5.5	4.550	0.9503	0.018	5.5	4.230	1.2702	0.031
6.0	5.229	0.7713	0.078	6.0	5.029	0.9706	0.003	6.0	4.717	1.2832	0.044
6.5	5.690	0.8105	0.118	6.5	5.496	1.0036	0.036	6.5	5.199	1.3013	0.062
7.0	6.129	0.8706	0.178	7.0	5.943	1.0570	0.089	7.0	5.672	1.3282	0.089
7.5	6.548	0.9525	0.260	7.5	6.368	1.1323	0.164	7.5	6.134	1.3656	0.127
8.0	6.943	1.0569	0.364	8.0	6.767	1.2327	0.265	8.0	6.582	1.4184	0.179
8.5	7.332	1.1684	0.475	8.5	7.168	1.3324	0.364	8.5	7.031	1.4694	0.230
9.0	7.688	1.3117	0.619	9.0	7.564	1.4362	0.468	9.0	7.467	1.5332	0.294
9.5	8.035	1.4655	0.773	9.5	7.970	1.5298	0.562	9.5	7.890	1.6103	0.371
10.0	8.386	1.6140	0.921	10.0	8.391	1.6090	0.641	10.0	8.309	1.6911	0.452
10.5	8.744	1.7558	1.063	10.5	8.815	1.6853	0.717	10.5	8.718	1.7824	0.543
11.0	9.097	1.9031	1.210	11.0	9.225	1.7750	0.807	11.0	9.099	1.9008	0.662
11.5	9.463	2.0368	1.344	11.5	9.622	1.8780	0.910	11.5	9.461	2.0390	0.800
12.0	9.808	2.1917	1.499	12.0	10.009	1.9910	1.023	12.0	9.778	2.2222	0.983
12.5	10.083	2.4170	1.724	12.5	10.349	2.1510	1.183	12.5	10.050	2.4500	1.211
13.0	10.212	2.7880	2.095	13.0	10.609	2.3910	1.423	13.0	10.285	2.7150	1.476
13.5	10.222	3.2780	2.585	13.5	10.790	2.7100	1.742	13.5	10.468	3.0320	1.793
14.0	10.199	3.8010	3.108	14.0	10.912	3.0880	2.120	14.0	10.606	3.3940	2.155
14.5	10.202	4.2980	3.605	14.5	11.002	3.4980	2.530	14.5	10.699	3.8010	2.562
15.0	10.234	4.7660	4.073	15.0	11.084	3.9160	2.948	15.0	10.770	4.2300	2.991
15.5	10.302	5.1980	4.505	15.5	11.157	4.3430	3.375	15.5	10.833	4.6670	3.428
16.0	10.380	5.6200	4.927	16.0	11.213	4.7870	3.819	16.0	10.897	5.1030	3.864
16.5	10.483	6.0170	5.324	16.5	11.244	5.2560	4.288	16.5	10.955	5.5450	4.306
17.0	10.592	6.4080	5.715	17.0	11.244	5.7560	4.788	17.0	10.994	6.0060	4.767
17.5	10.722	6.7780	6.085	17.5	11.224	6.2760	5.308	17.5	11.028	6.4720	5.233
18.0	10.863	7.1370	6.444	18.0	11.185	6.8150	5.847	18.0	11.053	6.9470	5.708
18.5	11.017	7.4830	6.790	18.5	11.144	7.3560	6.388	18.5	11.076	7.4240	6.185
19.0	11.184	7.8160	7.123	19.0	11.094	7.9060	6.938	19.0	11.103	7.8970	6.658
19.5	11.355	8.1450	7.452	19.5	11.047	8.4530	7.485	19.5	11.102	8.3980	7.159
20.0	11.532	8.4680	7.775	20.0	11.012	8.9880	8.020	20.0	11.102	8.8980	7.659





Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

P1dB Graph 20GHz to 28GHz @ (-55°C)



P1dB Data (20GHz to 28GHz)

20 GHz				24 GHz				28 GHz			
Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)
0.0	-1.332	1.3315	0.000	0.0	-1.605	1.6045	0.000	0.0	-1.513	1.5127	0.000
0.5	-0.837	1.3370	0.006	0.5	-1.106	1.6060	0.001	0.5	-1.005	1.5045	0.008
1.0	-0.308	1.3079	0.024	1.0	-0.647	1.6467	0.042	1.0	-0.448	1.4479	0.065
1.5	0.190	1.3100	0.021	1.5	-0.149	1.6491	0.044	1.5	0.060	1.4404	0.073
2.0	0.689	1.3114	0.020	2.0	0.350	1.6504	0.045	2.0	0.570	1.4302	0.083
2.5	1.186	1.3144	0.017	2.5	0.850	1.6505	0.046	2.5	1.082	1.4182	0.095
3.0	1.684	1.3163	0.015	3.0	1.349	1.6508	0.046	3.0	1.591	1.4089	0.104
3.5	2.182	1.3185	0.013	3.5	1.849	1.6508	0.046	3.5	2.102	1.3982	0.115
4.0	2.679	1.3215	0.010	4.0	2.349	1.6509	0.046	4.0	2.611	1.3891	0.124
4.5	3.178	1.3225	0.009	4.5	2.849	1.6512	0.046	4.5	3.122	1.3784	0.135
5.0	3.675	1.3248	0.007	5.0	3.349	1.6512	0.046	5.0	3.633	1.3672	0.146
5.5	4.175	1.3252	0.006	5.5	3.851	1.6495	0.045	5.5	4.143	1.3570	0.156
6.0	4.671	1.3292	0.002	6.0	4.352	1.6477	0.043	6.0	4.652	1.3477	0.165
6.5	5.166	1.3339	0.002	6.5	4.854	1.6465	0.041	6.5	5.162	1.3383	0.175
7.0	5.658	1.3424	0.011	7.0	5.355	1.6452	0.040	7.0	5.671	1.3292	0.184
7.5	6.145	1.3555	0.024	7.5	5.856	1.6439	0.039	7.5	6.178	1.3219	0.191
8.0	6.627	1.3727	0.041	8.0	6.357	1.6433	0.038	8.0	6.684	1.3162	0.197
8.5	7.104	1.3965	0.065	8.5	6.864	1.6359	0.031	8.5	7.192	1.3082	0.205
9.0	7.556	1.4441	0.113	9.0	7.363	1.6367	0.032	9.0	7.692	1.3083	0.205
9.5	7.997	1.5028	0.171	9.5	7.855	1.6449	0.040	9.5	8.168	1.3322	0.181
10.0	8.412	1.5879	0.256	10.0	8.341	1.6590	0.054	10.0	8.647	1.3529	0.160
10.5	8.804	1.6962	0.365	10.5	8.831	1.6693	0.064	10.5	9.106	1.3944	0.119
11.0	9.183	1.8168	0.485	11.0	9.318	1.6821	0.077	11.0	9.541	1.4593	0.054
11.5	9.543	1.9569	0.625	11.5	9.798	1.7019	0.097	11.5	9.940	1.5601	0.047
12.0	9.886	2.1144	0.783	12.0	10.274	1.7260	0.121	12.0	10.305	1.6950	0.182
12.5	10.212	2.2860	0.957	12.5	10.737	1.7630	0.158	12.5	10.585	1.9150	0.402
13.0	10.516	2.4840	1.153	13.0	11.181	1.8190	0.214	13.0	10.775	2.2250	0.712
13.5	10.775	2.7250	1.394	13.5	11.598	1.9020	0.297	13.5	10.914	2.5860	1.073
14.0	10.983	3.0170	1.686	14.0	11.970	2.0300	0.425	14.0	11.013	2.9870	1.474
14.5	11.184	3.3160	1.985	14.5	12.251	2.2490	0.644	14.5	11.099	3.4010	1.888
15.0	11.359	3.6410	2.310	15.0	12.398	2.6020	0.997	15.0	11.172	3.8280	2.315
15.5	11.500	4.0000	2.669	15.5	12.432	3.0680	1.463	15.5	11.241	4.2590	2.746
16.0	11.576	4.4240	3.093	16.0	12.407	3.5930	1.988	16.0	11.312	4.6880	3.175
16.5	11.613	4.8870	3.556	16.5	12.407	4.0930	2.488	16.5	11.382	5.1180	3.605
17.0	11.622	5.3780	4.047	17.0	12.476	4.5240	2.919	17.0	11.458	5.5420	4.029
17.5	11.615	5.8850	4.554	17.5	12.586	4.9140	3.309	17.5	11.536	5.9640	4.451
18.0	11.613	6.3870	5.056	18.0	12.698	5.3020	3.697	18.0	11.614	6.3860	4.873
18.5	11.604	6.8960	5.565	18.5	12.806	5.6940	4.089	18.5	11.682	6.8180	5.305
19.0	11.604	7.3960	6.065	19.0	12.891	6.1090	4.504	19.0	11.751	7.2490	5.736
19.5	11.609	7.8910	6.560	19.5	12.942	6.5580	4.953	19.5	11.789	7.7110	6.198
20.0	11.620	8.3800	7.049	20.0	12.974	7.0260	5.421	20.0	11.789	8.2110	6.698

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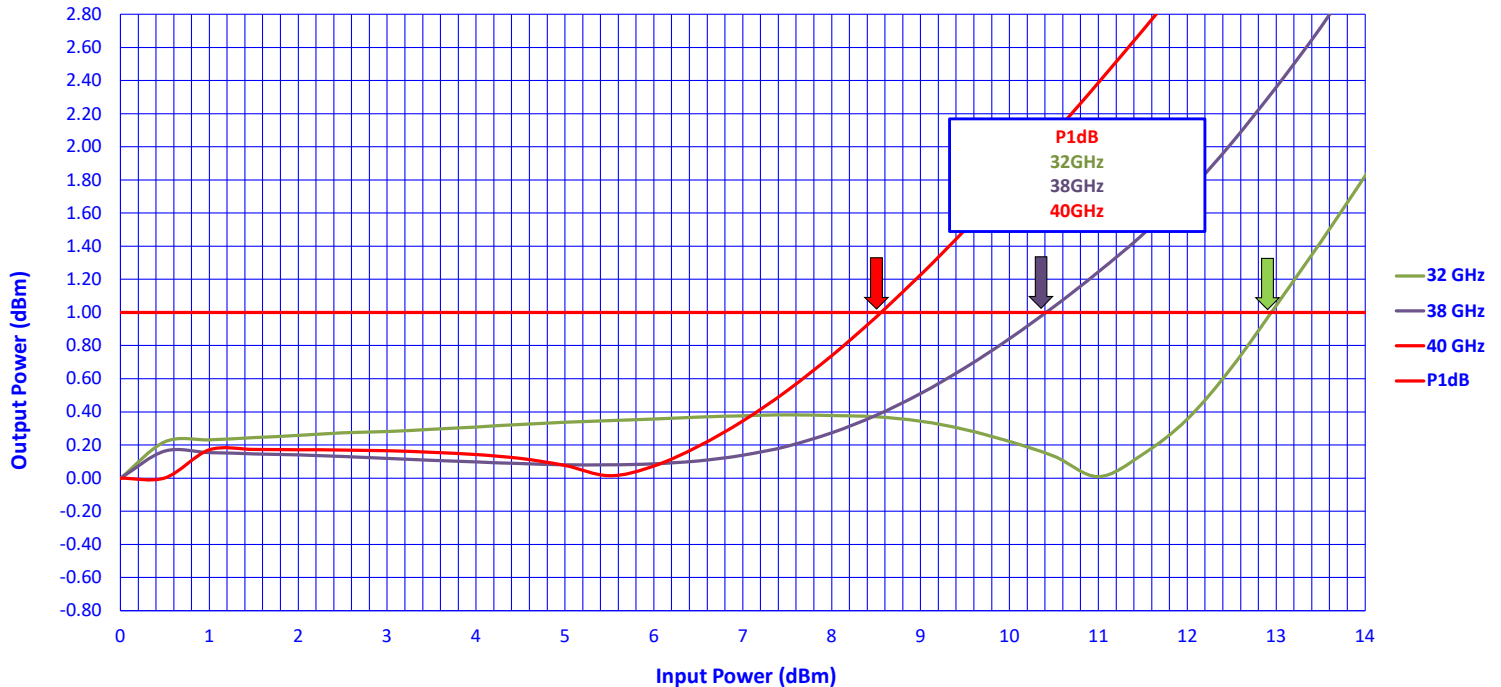
Email: sales@pmi-rf.com





ON LM-10M40G-15DBM-4W-AGAL

P1dB Graph 32GHz to 40GHz @ (-55°C)



P1dB Data (32GHz to 40GHz)											
32 GHz				38 GHz				40 GHz			
Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)
0.0	-1.289	1.2892	0.000	0.0	-2.283	2.2832	0.000	0.0	-3.156	3.1561	0.000
0.5	-0.570	1.0696	0.219	0.5	-1.947	2.4465	0.164	0.5	-2.654	3.1537	0.002
1.0	-0.058	1.0576	0.231	1.0	-1.437	2.4372	0.154	1.0	-1.985	2.9849	0.171
1.5	0.455	1.0446	0.244	1.5	-0.930	2.4301	0.147	1.5	-1.483	2.9834	0.173
2.0	0.969	1.0309	0.258	2.0	-0.423	2.4234	0.140	2.0	-0.984	2.9842	0.172
2.5	1.484	1.0158	0.273	2.5	0.087	2.4134	0.130	2.5	-0.486	2.9864	0.170
3.0	1.992	1.0078	0.281	3.0	0.597	2.4027	0.120	3.0	0.010	2.9904	0.166
3.5	2.505	0.9947	0.294	3.5	1.108	2.3917	0.109	3.5	0.501	2.9995	0.157
4.0	3.021	0.9794	0.310	4.0	1.620	2.3803	0.097	4.0	0.987	3.0131	0.143
4.5	3.535	0.9646	0.324	4.5	2.129	2.3706	0.088	4.5	1.463	3.0373	0.119
5.0	4.048	0.9521	0.337	5.0	2.636	2.3645	0.082	5.0	1.921	3.0794	0.077
5.5	4.558	0.9418	0.347	5.5	3.137	2.3635	0.081	5.5	2.358	3.1417	0.014
6.0	5.068	0.9318	0.357	6.0	3.630	2.3697	0.087	6.0	2.771	3.2293	0.073
6.5	5.579	0.9208	0.368	6.5	4.113	2.3873	0.104	6.5	3.152	3.3483	0.192
7.0	6.088	0.9120	0.377	7.0	4.579	2.4214	0.138	7.0	3.498	3.5017	0.346
7.5	6.593	0.9072	0.382	7.5	5.024	2.4760	0.193	7.5	3.816	3.6845	0.529
8.0	7.090	0.9099	0.379	8.0	5.443	2.5571	0.274	8.0	4.104	3.8956	0.740
8.5	7.581	0.9191	0.370	8.5	5.837	2.6628	0.380	8.5	4.370	4.1301	0.974
9.0	8.055	0.9451	0.344	9.0	6.206	2.7940	0.511	9.0	4.616	4.3840	1.228
9.5	8.505	0.9955	0.294	9.5	6.550	2.9498	0.667	9.5	4.845	4.6548	1.499
10.0	8.932	1.0680	0.221	10.0	6.875	3.1248	0.842	10.0	5.060	4.9396	1.784
10.5	9.344	1.1559	0.133	10.5	7.181	3.3187	1.036	10.5	5.263	5.2366	2.081
11.0	9.721	1.2795	0.009	11.0	7.472	3.5278	1.245	11.0	5.456	5.5436	2.388
11.5	10.066	1.4340	0.145	11.5	7.746	3.7541	1.471	11.5	5.639	5.8608	2.705
12.0	10.355	1.6450	0.356	12.0	7.995	4.0052	1.722	12.0	5.816	6.1845	3.029
12.5	10.542	1.9580	0.669	12.5	8.193	4.3073	2.024	12.5	5.975	6.5249	3.369
13.0	10.669	2.3310	1.042	13.0	8.356	4.6437	2.361	13.0	6.100	6.8999	3.744
13.5	10.785	2.7150	1.426	13.5	8.495	5.0046	2.722	13.5	6.211	7.2893	4.133
14.0	10.886	3.1140	1.825	14.0	8.594	5.4061	3.123	14.0	6.350	7.6505	4.495
14.5	10.975	3.5250	2.236	14.5	8.666	5.8337	3.551	14.5	6.472	8.0285	4.873
15.0	11.062	3.9380	2.649	15.0	8.714	6.2862	4.003	15.0	6.552	8.4480	5.292
15.5	11.144	4.3560	3.067	15.5	8.737	6.7626	4.480	15.5	6.603	8.8975	5.742
16.0	11.213	4.7870	3.498	16.0	8.761	7.2391	4.956	16.0	6.631	9.3690	6.213
16.5	11.278	5.2220	3.933	16.5	8.802	7.6983	5.415	16.5	6.638	9.8621	6.706
17.0	11.342	5.6580	4.369	17.0	8.848	8.1522	5.869	17.0	6.628	10.3724	7.216
17.5	11.411	6.0890	4.800	17.5	8.882	8.6179	6.335	17.5	6.625	10.8751	7.719
18.0	11.475	6.5250	5.236	18.0	8.894	9.1065	6.824	18.0	6.625	11.3751	8.219
18.5	11.509	6.9910	5.702	18.5	8.894	9.6065	7.324	18.5	6.625	11.8751	8.719
19.0	11.509	7.4910	6.202	19.0	8.894	10.1065	7.824	19.0	6.625	12.3751	9.219
19.5	11.509	7.9910	6.702	19.5	8.894	10.6065	8.324	19.5	6.625	12.8751	9.719
20.0	11.506	8.4940	7.205	20.0	8.894	11.1065	8.824	20.0	6.625	13.3751	10.219

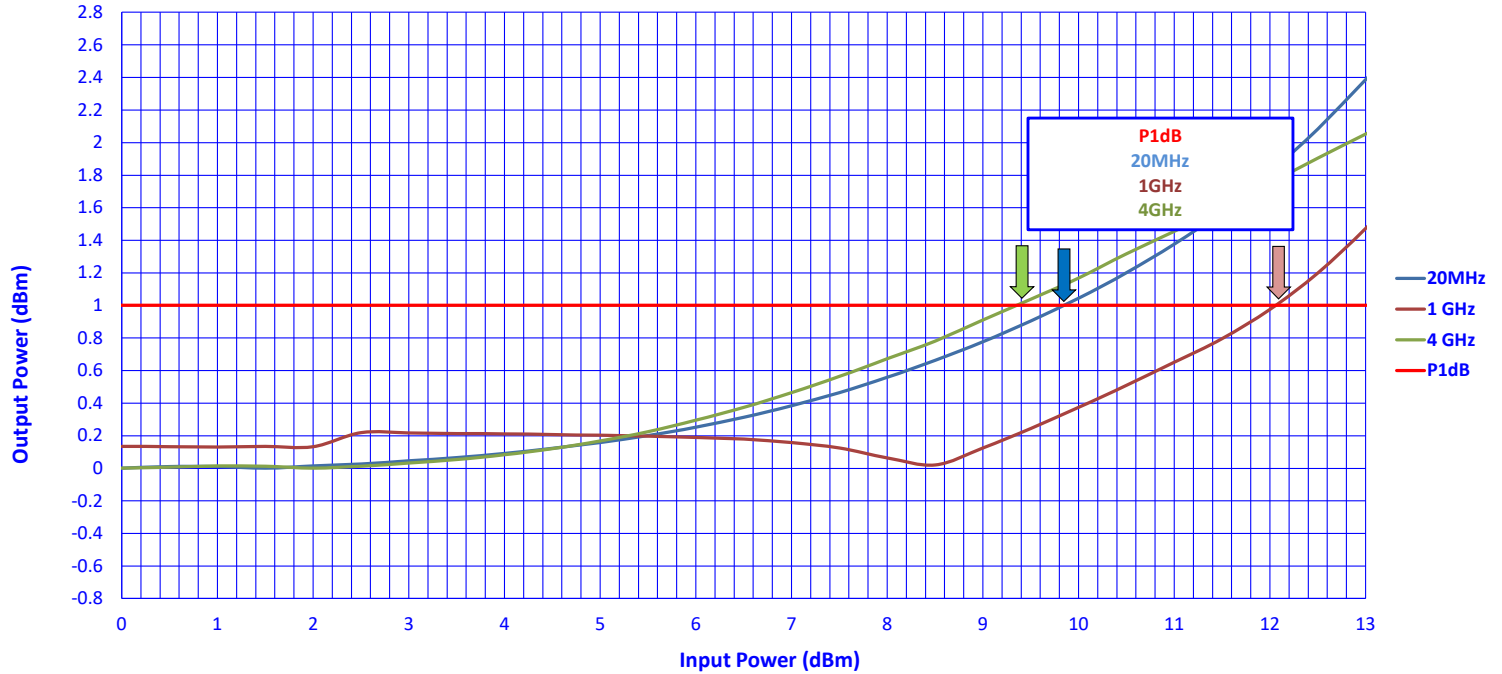
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ON LM-10M40G-15DBM-4W-AGAL

P1dB 20MHz to 4GHz @ (+85°C)



P1dB Data (20 MHz to 4GHz)											
20MHz				1 GHz				4 GHz			
Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)
0.0	-1.669	1.6694	0.000	0.0	-0.144	0.1444	0.134	0.0	-0.556	0.5556	0.000
0.5	-1.180	1.6797	0.011	0.5	0.355	0.1451	0.133	0.5	-0.062	0.5617	0.006
1.0	-0.658	1.6583	0.011	1.0	0.853	0.1471	0.131	1.0	0.430	0.5697	0.014
1.5	-0.170	1.6697	0.001	1.5	1.355	0.1446	0.133	1.5	0.956	0.5443	0.012
2.0	0.317	1.6828	0.014	2.0	1.854	0.1460	0.132	2.0	1.445	0.5554	0.001
2.5	0.804	1.6957	0.027	2.5	2.440	0.0600	0.218	2.5	1.931	0.5691	0.013
3.0	1.286	1.7141	0.045	3.0	2.939	0.0611	0.217	3.0	2.413	0.5872	0.031
3.5	1.765	1.7347	0.066	3.5	3.435	0.0654	0.213	3.5	2.891	0.6094	0.053
4.0	2.240	1.7601	0.091	4.0	3.934	0.0665	0.212	4.0	3.362	0.6383	0.082
4.5	2.709	1.7912	0.122	4.5	4.429	0.0708	0.207	4.5	3.824	0.6759	0.120
5.0	3.173	1.8270	0.158	5.0	4.924	0.0760	0.202	5.0	4.277	0.7227	0.167
5.5	3.631	1.8691	0.200	5.5	5.419	0.0812	0.197	5.5	4.719	0.7806	0.225
6.0	4.079	1.9209	0.252	6.0	5.911	0.0892	0.189	6.0	5.149	0.8506	0.295
6.5	4.519	1.9815	0.313	6.5	6.401	0.0994	0.179	6.5	5.570	0.9300	0.374
7.0	4.948	2.0525	0.384	7.0	6.879	0.1209	0.157	7.0	5.980	1.0202	0.464
7.5	5.366	2.1340	0.465	7.5	7.346	0.1541	0.124	7.5	6.380	1.1201	0.564
8.0	5.773	2.2269	0.558	8.0	7.786	0.2140	0.064	8.0	6.772	1.2280	0.672
8.5	6.168	2.3319	0.663	8.5	8.202	0.2979	0.020	8.5	7.163	1.3373	0.781
9.0	6.555	2.4453	0.776	9.0	8.597	0.4030	0.125	9.0	7.534	1.4659	0.910
9.5	6.926	2.5741	0.905	9.5	8.977	0.5226	0.245	9.5	7.906	1.5939	1.038
10.0	7.286	2.7136	1.045	10.0	9.348	0.6516	0.374	10.0	8.276	1.7240	1.168
10.5	7.631	2.8693	1.200	10.5	9.714	0.7865	0.509	10.5	8.627	1.8730	1.317
11.0	7.955	3.0450	1.376	11.0	10.071	0.9290	0.651	11.0	8.989	2.0111	1.455
11.5	8.257	3.2432	1.574	11.5	10.426	1.0740	0.796	11.5	9.344	2.1556	1.600
12.0	8.516	3.4843	1.815	12.0	10.747	1.2530	0.975	12.0	9.693	2.3074	1.751
12.5	8.747	3.7532	2.084	12.5	11.023	1.4770	1.199	12.5	10.040	2.4600	1.904
13.0	8.945	4.0547	2.386	13.0	11.250	1.7500	1.472	13.0	10.392	2.6080	2.052
13.5	9.135	4.3650	2.696	13.5	11.435	2.0650	1.787	13.5	10.749	2.7510	2.195
14.0	9.317	4.6832	3.014	14.0	11.594	2.4060	2.128	14.0	11.116	2.8840	2.328
14.5	9.484	5.0161	3.347	14.5	11.731	2.7690	2.491	14.5	11.478	3.0220	2.466
15.0	9.627	5.3732	3.704	15.0	11.856	3.1440	2.866	15.0	11.848	3.1520	2.596
15.5	9.744	5.7559	4.087	15.5	11.969	3.5310	3.253	15.5	12.220	3.2800	2.724
16.0	9.807	6.1932	4.524	16.0	12.072	3.9280	3.650	16.0	12.581	3.4190	2.863
16.5	9.852	6.6485	4.980	16.5	12.172	4.3280	4.050	16.5	12.923	3.5770	3.021
17.0	9.875	7.1246	5.456	17.0	12.273	4.7270	4.449	17.0	13.246	3.7540	3.198
17.5	9.896	7.6042	5.935	17.5	12.365	5.1350	4.857	17.5	13.533	3.9670	3.411
18.0	9.919	8.0806	6.412	18.0	12.457	5.5430	5.265	18.0	13.774	4.2260	3.670
18.5	9.940	8.5604	6.891	18.5	12.553	5.9470	5.669	18.5	13.963	4.5370	3.981
19.0	9.953	9.0470	7.378	19.0	12.639	6.3610	6.083	19.0	14.121	4.8790	4.323
19.5	9.976	9.5237	7.855	19.5	12.635	6.8650	6.587	19.5	14.262	5.2380	4.682
20.0	9.990	10.0104	8.341	20.0	12.635	7.3650	7.087	20.0	14.389	5.6110	5.055

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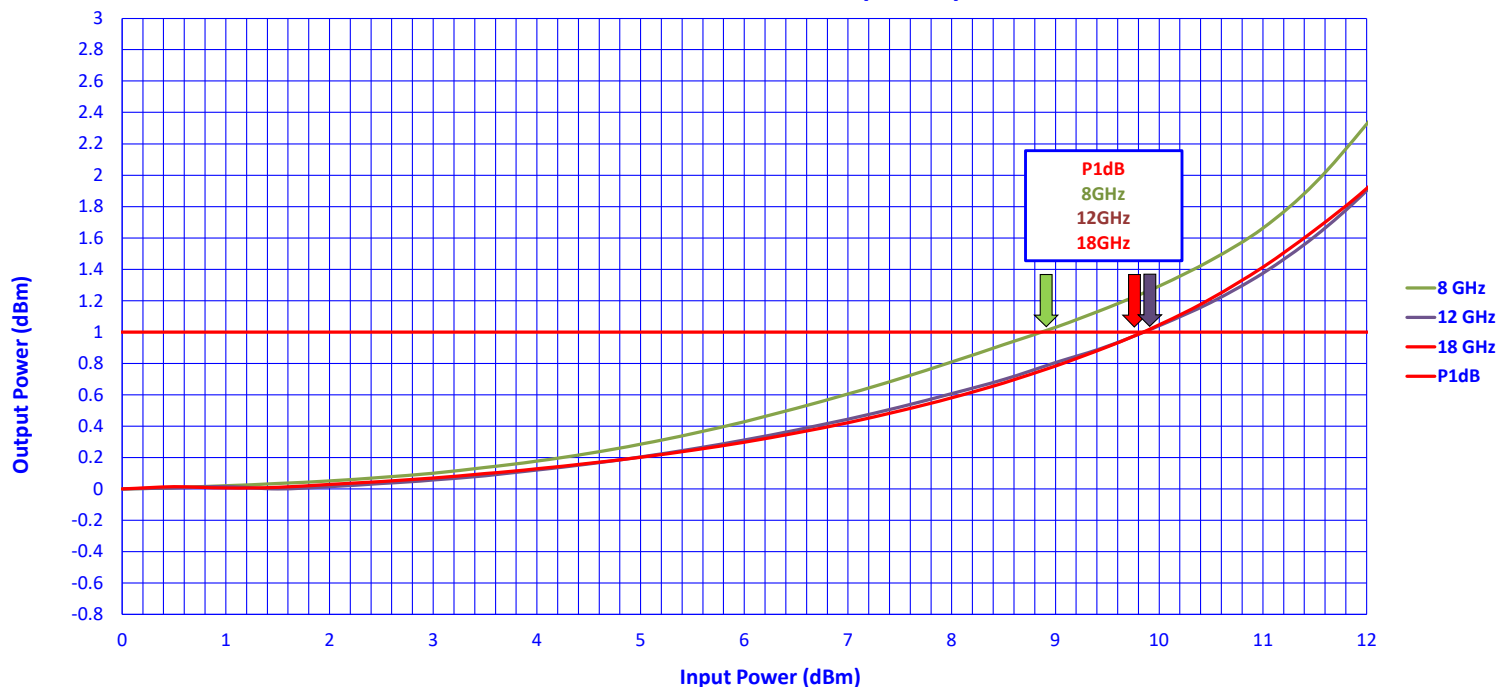


Typical Characteristics



ON LM-10M40G-15DBM-4W-AGAL

P1dB 8GHz to 18GHz @ (+85°C)



P1dB Data (8 GHz to 18GHz)

8 GHz				12 GHz				18 GHz			
Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)
0.0	-0.865	0.8653	0.000	0.0	-1.165	1.1650	0.000	0.0	-1.648	1.6482	0.000
0.5	-0.374	0.8741	0.009	0.5	-0.672	1.1718	0.007	0.5	-1.162	1.6618	0.014
1.0	0.114	0.8865	0.022	1.0	-0.180	1.1803	0.015	1.0	-0.642	1.6420	0.006
1.5	0.601	0.8994	0.034	1.5	0.334	1.1664	0.001	1.5	-0.158	1.6583	0.010
2.0	1.084	0.9165	0.052	2.0	0.820	1.1797	0.015	2.0	0.324	1.6765	0.029
2.5	1.561	0.9387	0.074	2.5	1.300	1.1997	0.035	2.5	0.804	1.6960	0.048
3.0	2.034	0.9664	0.101	3.0	1.778	1.2218	0.057	3.0	1.281	1.7188	0.071
3.5	2.499	1.0012	0.136	3.5	2.250	1.2501	0.085	3.5	1.755	1.7454	0.097
4.0	2.958	1.0423	0.177	4.0	2.715	1.2851	0.120	4.0	2.224	1.7762	0.128
4.5	3.409	1.0915	0.227	4.5	3.176	1.3242	0.159	4.5	2.689	1.8115	0.164
5.0	3.850	1.1505	0.286	5.0	3.631	1.3694	0.204	5.0	3.150	1.8505	0.203
5.5	4.281	1.2188	0.354	5.5	4.080	1.4205	0.256	5.5	3.605	1.8950	0.247
6.0	4.705	1.2947	0.430	6.0	4.522	1.4782	0.313	6.0	4.053	1.9469	0.299
6.5	5.120	1.3801	0.515	6.5	4.959	1.5409	0.376	6.5	4.494	2.0057	0.358
7.0	5.529	1.4712	0.606	7.0	5.389	1.6112	0.446	7.0	4.928	2.0716	0.424
7.5	5.931	1.5691	0.704	7.5	5.813	1.6874	0.522	7.5	5.354	2.1457	0.498
8.0	6.325	1.6746	0.810	8.0	6.227	1.7731	0.608	8.0	5.771	2.2291	0.581
8.5	6.715	1.7855	0.921	8.5	6.637	1.8626	0.698	8.5	6.175	2.3247	0.677
9.0	7.104	1.8959	1.031	9.0	7.029	1.9707	0.806	9.0	6.567	2.4327	0.785
9.5	7.479	2.0209	1.156	9.5	7.426	2.0744	0.909	9.5	6.946	2.5543	0.906
10.0	7.842	2.1583	1.293	10.0	7.794	2.2057	1.041	10.0	7.306	2.6940	1.046
10.5	8.176	2.3236	1.459	10.5	8.145	2.3555	1.191	10.5	7.639	2.8613	1.213
11.0	8.472	2.5279	1.663	11.0	8.459	2.5411	1.376	11.0	7.937	3.0628	1.415
11.5	8.687	2.8127	1.948	11.5	8.725	2.7749	1.610	11.5	8.202	3.2983	1.650
12.0	8.810	3.1904	2.325	12.0	8.933	3.0671	1.902	12.0	8.437	3.5630	1.915
12.5	8.892	3.6076	2.743	12.5	9.077	3.4228	2.258	12.5	8.625	3.8754	2.227
13.0	8.956	4.0444	3.179	13.0	9.189	3.8115	2.647	13.0	8.796	4.2042	2.556
13.5	9.005	4.4953	3.630	13.5	9.265	4.2348	3.070	13.5	8.944	4.5561	2.908
14.0	9.075	4.9249	4.060	14.0	9.321	4.6792	3.514	14.0	9.075	4.9250	3.277
14.5	9.153	5.3470	4.482	14.5	9.368	5.1321	3.967	14.5	9.183	5.3174	3.669
15.0	9.238	5.7621	4.897	15.0	9.391	5.6087	4.444	15.0	9.257	5.7432	4.095
15.5	9.338	6.1624	5.297	15.5	9.407	6.0932	4.928	15.5	9.315	6.1855	4.538
16.0	9.447	6.5528	5.688	16.0	9.407	6.5932	5.428	16.0	9.353	6.6475	5.000
16.5	9.562	6.9382	6.073	16.5	9.407	7.0932	5.928	16.5	9.375	7.1248	5.477
17.0	9.681	7.3189	6.454	17.0	9.395	7.6048	6.440	17.0	9.387	7.6135	5.966
17.5	9.816	7.6843	6.819	17.5	9.395	8.1048	6.940	17.5	9.409	8.0911	6.443
18.0	9.968	8.0324	7.167	18.0	9.399	8.6009	7.436	18.0	9.424	8.5761	6.928
18.5	10.131	8.3690	7.504	18.5	9.415	9.0855	7.921	18.5	9.457	9.0427	7.395
19.0	10.296	8.7040	7.839	19.0	9.430	9.5700	8.405	19.0	9.483	9.5169	7.869
19.5	10.470	9.0300	8.165	19.5	9.465	10.0355	8.871	19.5	9.483	10.0169	8.369
20.0	10.656	9.3440	8.479	20.0	9.495	10.5051	9.340	20.0	9.483	10.5169	8.869

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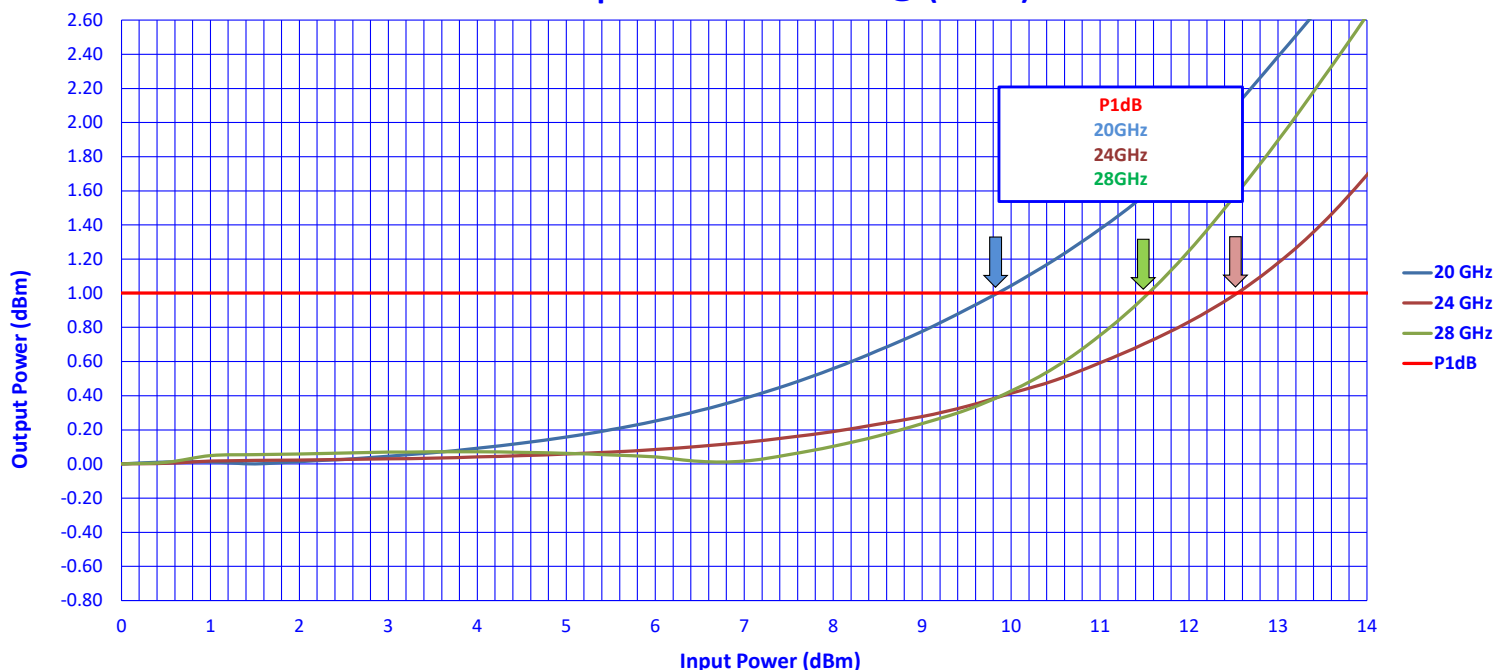


Typical Characteristics



ON LM-10M40G-15DBM-4W-AGAL

P1dB Graph 20GHz to 28GHz @ (+85°C)



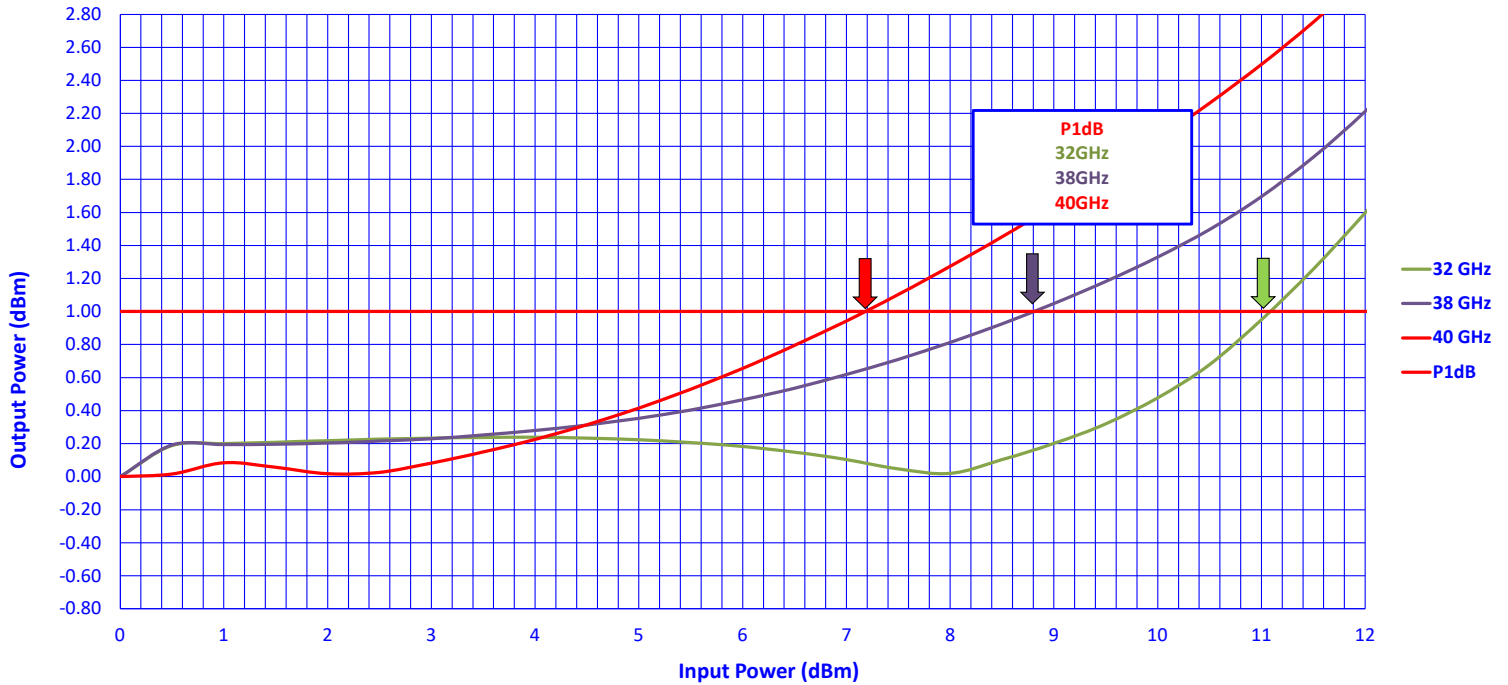
P1dB Data (20GHz to 28GHz)											
20 GHz				24 GHz				28 GHz			
Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)
0.0	-1.669	1.6694	0.000	0.0	-1.956	1.9564	0.000	0.0	-1.820	1.8200	0.000
0.5	-1.180	1.6797	0.011	0.5	-1.459	1.9590	0.003	0.5	-1.311	1.8114	0.009
1.0	-0.658	1.6583	0.011	1.0	-0.972	1.9721	0.016	1.0	-0.772	1.7715	0.049
1.5	-0.170	1.6697	0.001	1.5	-0.476	1.9758	0.020	1.5	-0.266	1.7664	0.054
2.0	0.317	1.6828	0.014	2.0	0.021	1.9787	0.023	2.0	0.238	1.7618	0.058
2.5	0.804	1.6957	0.027	2.5	0.518	1.9820	0.026	2.5	0.744	1.7556	0.064
3.0	1.286	1.7141	0.045	3.0	1.015	1.9852	0.029	3.0	1.249	1.7511	0.069
3.5	1.765	1.7347	0.066	3.5	1.510	1.9901	0.034	3.5	1.750	1.7497	0.070
4.0	2.240	1.7601	0.091	4.0	2.004	1.9965	0.041	4.0	2.251	1.7486	0.071
4.5	2.709	1.7912	0.122	4.5	2.496	2.0044	0.048	4.5	2.748	1.7522	0.068
5.0	3.173	1.8270	0.158	5.0	2.986	2.0138	0.058	5.0	3.242	1.7577	0.062
5.5	3.631	1.8691	0.200	5.5	3.475	2.0255	0.070	5.5	3.733	1.7668	0.053
6.0	4.079	1.9209	0.252	6.0	3.960	2.0396	0.084	6.0	4.220	1.7797	0.040
6.5	4.519	1.9815	0.313	6.5	4.442	2.0585	0.103	6.5	4.694	1.8058	0.014
7.0	4.948	2.0525	0.384	7.0	4.918	2.0823	0.126	7.0	5.164	1.8360	0.016
7.5	5.366	2.1340	0.465	7.5	5.389	2.1110	0.155	7.5	5.626	1.8745	0.055
8.0	5.773	2.2269	0.558	8.0	5.854	2.1460	0.190	8.0	6.077	1.9229	0.103
8.5	6.168	2.3319	0.663	8.5	6.311	2.1887	0.233	8.5	6.518	1.9825	0.163
9.0	6.555	2.4453	0.776	9.0	6.767	2.2332	0.277	9.0	6.944	2.0559	0.236
9.5	6.926	2.5741	0.905	9.5	7.207	2.2926	0.337	9.5	7.363	2.1374	0.317
10.0	7.286	2.7136	1.045	10.0	7.631	2.3694	0.413	10.0	7.753	2.2467	0.427
10.5	7.631	2.8693	1.200	10.5	8.053	2.4471	0.491	10.5	8.112	2.3882	0.568
11.0	7.955	3.0450	1.376	11.0	8.452	2.5479	0.592	11.0	8.427	2.5728	0.753
11.5	8.257	3.2432	1.574	11.5	8.840	2.6605	0.705	11.5	8.702	2.7984	0.978
12.0	8.516	3.4843	1.815	12.0	9.211	2.7888	0.833	12.0	8.932	3.0683	1.248
12.5	8.747	3.7532	2.084	12.5	9.557	2.9427	0.987	12.5	9.119	3.3809	1.561
13.0	8.945	4.0547	2.386	13.0	9.868	3.1325	1.177	13.0	9.286	3.7142	1.894
13.5	9.135	4.3650	2.696	13.5	10.134	3.3660	1.410	13.5	9.426	4.0744	2.254
14.0	9.317	4.6832	3.014	14.0	10.352	3.6480	1.692	14.0	9.553	4.4471	2.627
14.5	9.484	5.0161	3.347	14.5	10.536	3.9640	2.008	14.5	9.661	4.8392	3.019
15.0	9.627	5.3732	3.704	15.0	10.695	4.3050	2.349	15.0	9.758	5.2416	3.422
15.5	9.744	5.7559	4.087	15.5	10.851	4.6490	2.693	15.5	9.854	5.6461	3.826
16.0	9.807	6.1932	4.524	16.0	11.002	4.9980	3.042	16.0	9.951	6.0490	4.229
16.5	9.852	6.6485	4.980	16.5	11.151	5.3490	3.393	16.5	10.038	6.4620	4.642
17.0	9.875	7.1246	5.456	17.0	11.277	5.7230	3.767	17.0	10.128	6.8720	5.052
17.5	9.896	7.6042	5.935	17.5	11.380	6.1200	4.164	17.5	10.212	7.2880	5.468
18.0	9.919	8.0806	6.412	18.0	11.457	6.5430	4.587	18.0	10.284	7.7160	5.896
18.5	9.940	8.5604	6.891	18.5	11.514	6.9860	5.030	18.5	10.329	8.1710	6.351
19.0	9.953	9.0470	7.378	19.0	11.552	7.4480	5.492	19.0	10.342	8.6580	6.838
19.5	9.976	9.5237	7.855	19.5	11.586	7.9140	5.958	19.5	10.335	9.1650	7.345
20.0	9.990	10.0104	8.341	20.0	11.607	8.3930	6.437	20.0	10.325	9.6750	7.855

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LM-10M40G-15DBM-4W-AGAL

P1dB Graph 32GHz to 40GHz @ (+85°C)



P1dB Data (32GHz to 40GHz)											
32 GHz				38 GHz				40 GHz			
Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)
0.0	-1.766	1.7656	0.000	0.0	-3.327	3.3274	0.000	0.0	-4.518	4.5181	0.000
0.5	-1.077	1.5771	0.189	0.5	-3.019	3.5191	0.192	0.5	-4.034	4.5339	0.016
1.0	-0.566	1.5661	0.200	1.0	-2.521	3.5210	0.194	1.0	-3.434	4.4337	0.084
1.5	-0.057	1.5570	0.209	1.5	-2.024	3.5236	0.197	1.5	-2.961	4.4614	0.057
2.0	0.452	1.5479	0.218	2.0	-1.531	3.5311	0.204	2.0	-2.500	4.5003	0.018
2.5	0.961	1.5388	0.227	2.5	-1.042	3.5422	0.215	2.5	-2.045	4.5450	0.027
3.0	1.468	1.5320	0.234	3.0	-0.557	3.5573	0.230	3.0	-1.601	4.6008	0.083
3.5	1.972	1.5284	0.238	3.5	-0.079	3.5789	0.252	3.5	-1.168	4.6676	0.150
4.0	2.473	1.5272	0.239	4.0	0.393	3.6070	0.280	4.0	-0.744	4.7442	0.226
4.5	2.968	1.5318	0.234	4.5	0.859	3.6406	0.314	4.5	-0.334	4.8336	0.316
5.0	3.457	1.5426	0.223	5.0	1.319	3.6812	0.354	5.0	0.066	4.9341	0.416
5.5	3.941	1.5591	0.207	5.5	1.769	3.7313	0.404	5.5	0.451	5.0489	0.531
6.0	4.417	1.5832	0.183	6.0	2.207	3.7930	0.466	6.0	0.825	5.1747	0.657
6.5	4.883	1.6171	0.149	6.5	2.636	3.8637	0.537	6.5	1.187	5.3132	0.795
7.0	5.338	1.6621	0.104	7.0	3.054	3.9457	0.619	7.0	1.538	5.4616	0.944
7.5	5.782	1.7184	0.048	7.5	3.462	4.0381	0.711	7.5	1.879	5.6213	1.103
8.0	6.215	1.7855	0.019	8.0	3.860	4.1402	0.813	8.0	2.209	5.7915	1.274
8.5	6.631	1.8689	0.103	8.5	4.242	4.2531	0.926	8.5	2.529	5.9706	1.453
9.0	7.032	1.9679	0.202	9.0	4.624	4.3764	1.049	9.0	2.841	6.1594	1.641
9.5	7.413	2.0869	0.321	9.5	4.990	4.5101	1.183	9.5	3.143	6.3570	1.839
10.0	7.756	2.2443	0.478	10.0	5.343	4.6570	1.330	10.0	3.437	6.5635	2.046
10.5	8.055	2.4451	0.679	10.5	5.676	4.8241	1.497	10.5	3.719	6.7806	2.263
11.0	8.283	2.7174	0.951	11.0	5.977	5.0234	1.696	11.0	3.985	7.0149	2.497
11.5	8.477	3.0233	1.257	11.5	6.238	5.2618	1.935	11.5	4.229	7.2714	2.753
12.0	8.636	3.3644	1.598	12.0	6.461	5.5388	2.212	12.0	4.440	7.5597	3.042
12.5	8.779	3.7215	1.956	12.5	6.646	5.8539	2.527	12.5	4.623	7.8772	3.359
13.0	8.902	4.0982	2.332	13.0	6.792	6.2082	2.881	13.0	4.781	8.2191	3.701
13.5	9.031	4.4686	2.703	13.5	6.904	6.5959	3.269	13.5	4.906	8.5940	4.076
14.0	9.148	4.8523	3.086	14.0	6.994	7.0056	3.679	14.0	4.999	9.0009	4.483
14.5	9.266	5.2343	3.468	14.5	7.072	7.4276	4.101	14.5	5.065	9.4350	4.917
15.0	9.372	5.6285	3.863	15.0	7.147	7.8533	4.526	15.0	5.107	9.8927	5.375
15.5	9.488	6.0120	4.246	15.5	7.220	8.2803	4.953	15.5	5.129	10.3706	5.853
16.0	9.593	6.4071	4.641	16.0	7.283	8.7170	5.390	16.0	5.134	10.8658	6.348
16.5	9.695	6.8047	5.039	16.5	7.323	9.1767	5.850	16.5	5.125	11.3749	6.857
17.0	9.783	7.2171	5.451	17.0	7.334	9.6659	6.339	17.0	5.102	11.8980	7.380
17.5	9.861	7.6393	5.873	17.5	7.316	10.1843	6.857	17.5	5.098	12.4023	7.884
18.0	9.913	8.0868	6.321	18.0	7.269	10.7313	7.404	18.0	5.097	12.9028	8.385
18.5	9.945	8.5549	6.789	18.5	7.245	11.2546	7.928	18.5	5.097	13.4031	8.885
19.0	9.945	9.0549	7.289	19.0	7.245	11.7546	8.428	19.0	5.097	13.9031	9.385
19.5	9.945	9.5549	7.789	19.5	7.245	12.2549	8.928	19.5	5.096	14.4036	9.886
20.0	9.945	10.0549	8.289	20.0	7.245	12.7551	9.428	20.0	5.096	14.9036	10.386

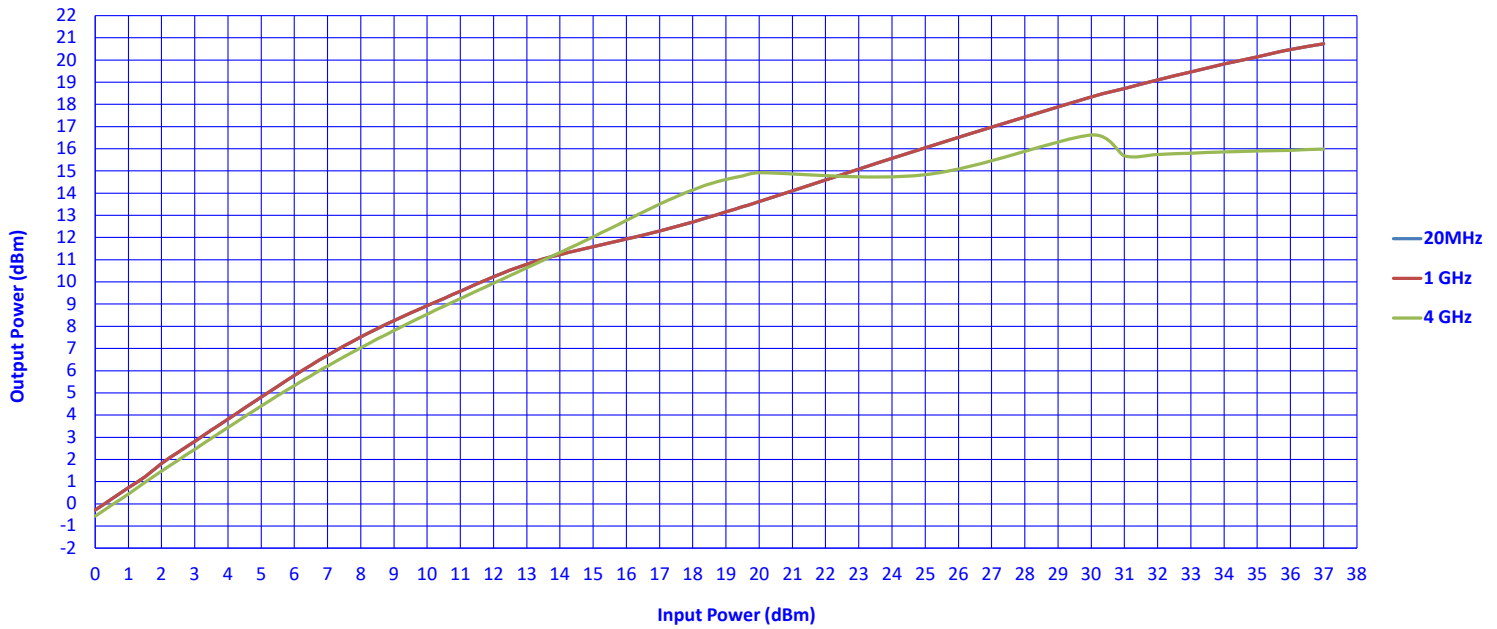
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Typical Characteristics
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LM-10M40G-15DBM-4W-AGAL

High Power Test Graph 20MHz to 4GHz CW (+25°C)



High Power Test Data 20MHz to 4GHz (CW)													Power Input (Watts)
20MHz				1GHz				4 GHz					
Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)		
0.0	-0.177	0.177	0.000	0.0	-0.281	0.281	0.000	0.0	-0.553	0.553	0.000		
0.5	0.322	0.178	0.001	0.5	0.220	0.280	0.001	0.5	-0.056	0.556	0.003		
1.0	0.821	0.179	0.002	1.0	0.720	0.281	0.001	1.0	0.440	0.560	0.007		
1.5	1.323	0.177	0.000	1.5	1.219	0.281	0.000	1.5	0.975	0.526	0.028		
2.0	1.822	0.178	0.001	2.0	1.822	0.178	0.103	2.0	1.471	0.529	0.024		
2.5	2.411	0.089	0.088	2.5	2.320	0.180	0.101	2.5	1.966	0.534	0.019		
3.0	2.910	0.090	0.087	3.0	2.818	0.182	0.099	3.0	2.459	0.541	0.012		
3.5	3.405	0.095	0.082	3.5	3.315	0.185	0.096	3.5	2.950	0.550	0.003		
4.0	3.905	0.095	0.082	4.0	3.812	0.188	0.093	4.0	3.438	0.562	0.009		
4.5	4.401	0.099	0.078	4.5	4.312	0.188	0.093	4.5	3.923	0.577	0.024		
5.0	4.897	0.103	0.074	5.0	4.805	0.195	0.086	5.0	4.401	0.599	0.046		
5.5	5.395	0.105	0.072	5.5	5.297	0.203	0.078	5.5	4.871	0.629	0.076		
6.0	5.891	0.109	0.068	6.0	5.779	0.221	0.060	6.0	5.331	0.669	0.116		
6.5	6.388	0.112	0.065	6.5	6.247	0.253	0.028	6.5	5.778	0.722	0.169		
7.0	6.879	0.121	0.056	7.0	6.695	0.305	0.024	7.0	6.209	0.791	0.238		
7.5	7.366	0.134	0.043	7.5	7.112	0.388	0.107	7.5	6.625	0.875	0.322		
8.0	7.846	0.154	0.023	8.0	7.522	0.478	0.197	8.0	7.027	0.973	0.420		
8.5	8.289	0.211	0.034	8.5	7.896	0.604	0.323	8.5	7.423	1.077	0.524		
9.0	8.706	0.294	0.117	9.0	8.252	0.748	0.467	9.0	7.804	1.196	0.643		
9.5	9.096	0.404	0.227	9.5	8.591	0.909	0.628	9.5	8.177	1.323	0.770		
10.0	9.474	0.527	0.350	10.0	8.925	1.075	0.794	10.0	8.546	1.454	0.901		
10.5	9.844	0.656	0.479	10.5	9.252	1.248	0.967	10.5	8.900	1.600	1.047		
11.0	10.212	0.788	0.611	11.0	9.581	1.419	1.138	11.0	9.250	1.751	1.198		
11.5	10.572	0.928	0.751	11.5	9.905	1.595	1.314	11.5	9.597	1.903	1.350		
12.0	10.927	1.073	0.896	12.0	10.224	1.776	1.495	12.0	9.941	2.059	1.506		
12.5	11.250	1.250	1.073	12.5	10.525	1.975	1.694	12.5	10.287	2.213	1.660		
13.0	11.523	1.477	1.300	13.0	10.791	2.209	1.928	13.0	10.630	2.370	1.817		
13.5	11.738	1.762	1.585	13.5	11.030	2.470	2.189	13.5	10.978	2.522	1.969		
14.0	11.913	2.087	1.910	14.0	11.229	2.771	2.490	14.0	11.321	2.679	2.126		
14.5	12.058	2.442	2.265	14.5	11.414	3.086	2.805	14.5	11.672	2.828	2.275		
15.0	12.183	2.817	2.640	15.0	11.583	3.417	3.136	15.0	12.033	2.967	2.414		
15.5	12.301	3.199	3.022	15.5	11.751	3.749	3.468	15.5	12.395	3.105	2.552		
16.0	12.405	3.595	3.418	16.0	11.925	4.075	3.794	16.0	12.765	3.235	2.682		
16.5	12.506	3.994	3.817	16.5	12.101	4.399	4.118	16.5	13.139	3.361	2.808		
17.0	12.595	4.405	4.228	17.0	12.292	4.708	4.427	17.0	13.494	3.506	2.953		
17.5	12.688	4.812	4.635	17.5	12.492	5.008	4.727	17.5	13.835	3.665	3.112		
18.0	12.778	5.222	5.045	18.0	12.699	5.301	5.020	18.0	14.142	3.858	3.305		
18.5	12.863	5.637	5.460	18.5	12.923	5.577	5.296	18.5	14.409	4.091	3.538		
19.0	12.943	6.051	5.874	19.0	13.150	5.850	5.569	19.0	14.614	4.386	3.833		
19.5	12.949	6.551	6.374	19.5	13.379	6.121	5.840	19.5	14.775	4.725	4.172		
20.0	12.949	7.051	6.874	20.0	13.611	6.389	6.108	20.0	14.917	5.083	4.530		
25.0	15.390	9.610	9.433	25.0	16.040	8.960	8.679	25.0	14.820	10.180	9.627		
30.0	16.600	13.400	13.223	30.0	18.330	11.670	11.389	30.0	16.610	13.390	12.837	1.00	
31.0	16.890	14.110	13.933	31.0	18.710	12.290	12.009	31.0	15.680	15.320	14.767	1.26	
32.0	17.230	14.770	14.593	32.0	19.100	12.900	12.619	32.0	15.740	16.260	15.707	1.58	
33.0	17.510	15.490	15.313	33.0	19.460	13.540	13.259	33.0	15.800	17.200	16.647	2.00	
34.0	17.850	16.150	15.973	34.0	19.810	14.190	13.909	34.0	15.850	18.150	17.597	2.51	
35.0	18.190	16.810	16.633	35.0	20.140	14.860	14.579	35.0	15.890	19.110	18.557	3.16	
36.0	18.540	17.460	17.283	36.0	20.470	15.530	15.249	36.0	15.930	20.070	19.517	3.98	
37.0	18.880	18.120	17.943	37.0	20.720	16.280	15.999	37.0	15.980	21.020	20.467	5.01	
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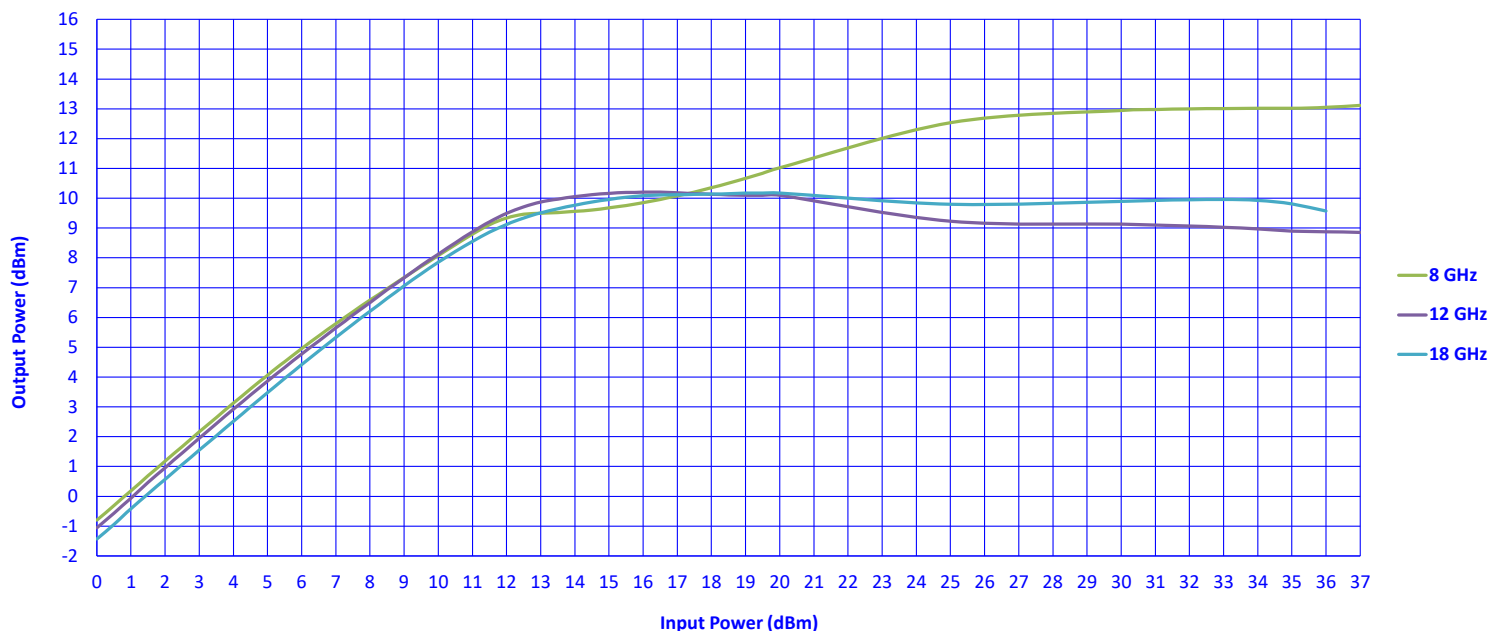


Typical Characteristics
ON



LM-10M40G-15DBM-4W-AGAL

High Power Test Graph 8GHz to 18GHz CW (+25°C)



High Power Test Data 8GHz to 18GHz (CW)													Power Input (Watts)
8 GHz				12 GHz				18 GHz					
Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)		
0.0	-0.803	0.803	0.000	0.0	-1.060	1.060	0.000	0.0	-1.433	1.433	0.000		
0.5	-0.306	0.806	0.003	0.5	-0.560	1.060	0.000	0.5	-0.942	1.442	0.009		
1.0	0.190	0.810	0.007	1.0	-0.059	1.059	0.001	1.0	-0.406	1.406	0.027		
1.5	0.690	0.810	0.007	1.5	0.469	1.031	0.029	1.5	0.085	1.415	0.018		
2.0	1.185	0.816	0.012	2.0	0.965	1.035	0.025	2.0	0.575	1.425	0.008		
2.5	1.676	0.824	0.021	2.5	1.461	1.039	0.021	2.5	1.065	1.435	0.002		
3.0	2.165	0.835	0.032	3.0	1.952	1.048	0.012	3.0	1.554	1.446	0.013		
3.5	2.650	0.850	0.047	3.5	2.441	1.059	0.001	3.5	2.040	1.460	0.027		
4.0	3.131	0.869	0.066	4.0	2.924	1.076	0.016	4.0	2.524	1.476	0.043		
4.5	3.604	0.896	0.093	4.5	3.401	1.099	0.039	4.5	3.005	1.495	0.062		
5.0	4.069	0.931	0.128	5.0	3.870	1.130	0.070	5.0	3.482	1.518	0.085		
5.5	4.521	0.980	0.177	5.5	4.328	1.172	0.112	5.5	3.956	1.544	0.111		
6.0	4.960	1.040	0.237	6.0	4.778	1.222	0.162	6.0	4.421	1.579	0.146		
6.5	5.385	1.115	0.312	6.5	5.220	1.280	0.220	6.5	4.880	1.620	0.187		
7.0	5.797	1.203	0.400	7.0	5.653	1.347	0.287	7.0	5.333	1.668	0.235		
7.5	6.196	1.304	0.501	7.5	6.081	1.419	0.359	7.5	5.777	1.723	0.290		
8.0	6.584	1.416	0.613	8.0	6.504	1.496	0.436	8.0	6.213	1.787	0.354		
8.5	6.964	1.536	0.733	8.5	6.928	1.572	0.512	8.5	6.639	1.861	0.428		
9.0	7.345	1.655	0.852	9.0	7.333	1.667	0.607	9.0	7.063	1.937	0.504		
9.5	7.712	1.788	0.985	9.5	7.744	1.757	0.697	9.5	7.473	2.027	0.594		
10.0	8.079	1.921	1.118	10.0	8.129	1.871	0.811	10.0	7.852	2.148	0.715		
10.5	8.447	2.053	1.250	10.5	8.512	1.988	0.928	10.5	8.217	2.284	0.851		
11.0	8.796	2.204	1.401	11.0	8.872	2.128	1.068	11.0	8.552	2.448	1.015		
11.5	9.114	2.386	1.583	11.5	9.213	2.287	1.227	11.5	8.860	2.640	1.207		
12.0	9.342	2.658	1.855	12.0	9.495	2.505	1.445	12.0	9.123	2.877	1.444		
12.5	9.463	3.037	2.234	12.5	9.713	2.787	1.727	12.5	9.341	3.159	1.726		
13.0	9.503	3.497	2.694	13.0	9.873	3.128	2.068	13.0	9.512	3.488	2.055		
13.5	9.523	3.977	3.174	13.5	9.976	3.524	2.464	13.5	9.649	3.851	2.418		
14.0	9.562	4.438	3.635	14.0	10.056	3.944	2.884	14.0	9.768	4.233	2.800		
14.5	9.608	4.892	4.089	14.5	10.119	4.381	3.321	14.5	9.873	4.627	3.194		
15.0	9.677	5.323	4.520	15.0	10.168	4.832	3.772	15.0	9.963	5.037	3.604		
15.5	9.760	5.740	4.937	15.5	10.194	5.306	4.246	15.5	10.034	5.466	4.033		
16.0	9.856	6.144	5.341	16.0	10.203	5.797	4.737	16.0	10.085	5.915	4.482		
16.5	9.964	6.536	5.733	16.5	10.203	6.297	5.237	16.5	10.108	6.392	4.959		
17.0	10.083	6.917	6.114	17.0	10.184	6.816	5.756	17.0	10.120	6.880	5.447		
17.5	10.212	7.288	6.485	17.5	10.158	7.342	6.282	17.5	10.130	7.370	5.937		
18.0	10.354	7.646	6.843	18.0	10.135	7.865	6.805	18.0	10.143	7.857	6.424		
18.5	10.505	7.995	7.192	18.5	10.112	8.388	7.328	18.5	10.152	8.348	6.915		
19.0	10.668	8.332	7.529	19.0	10.102	8.898	7.838	19.0	10.174	8.826	7.393		
19.5	10.843	8.657	7.854	19.5	10.099	9.401	8.341	19.5	10.174	9.326	7.893		
20.0	11.022	8.978	8.175	20.0	10.102	9.898	8.838	20.0	10.180	9.820	8.387		
25.0	12.540	12.460	11.657	25.0	9.230	15.770	14.710	25.0	9.800	15.200	13.767		
30.0	12.950	17.050	16.247	30.0	9.130	20.870	19.810	30.0	9.900	20.100	18.667	1.00	
31.0	12.980	18.020	17.217	31.0	9.100	21.900	20.840	31.0	9.930	21.070	19.637	1.26	
32.0	13.000	19.000	18.197	32.0	9.070	22.930	21.870	32.0	9.950	22.050	20.617	1.58	
33.0	13.010	19.990	19.187	33.0	9.030	23.970	22.910	33.0	9.960	23.040	21.607	2.00	
34.0	13.020	20.980	20.177	34.0	8.970	25.030	23.970	34.0	9.930	24.070	22.637	2.51	
35.0	13.020	21.980	21.177	35.0	8.900	26.100	25.040	35.0	9.810	25.190	23.757	3.16	
36.0	13.050	22.950	22.147	36.0	8.880	27.120	26.060	36.0	9.570	26.430	24.997	3.98	
37.0	13.120	23.880	23.077	37.0	8.850	28.150	27.090		DO NOT EXCEED			5.01	
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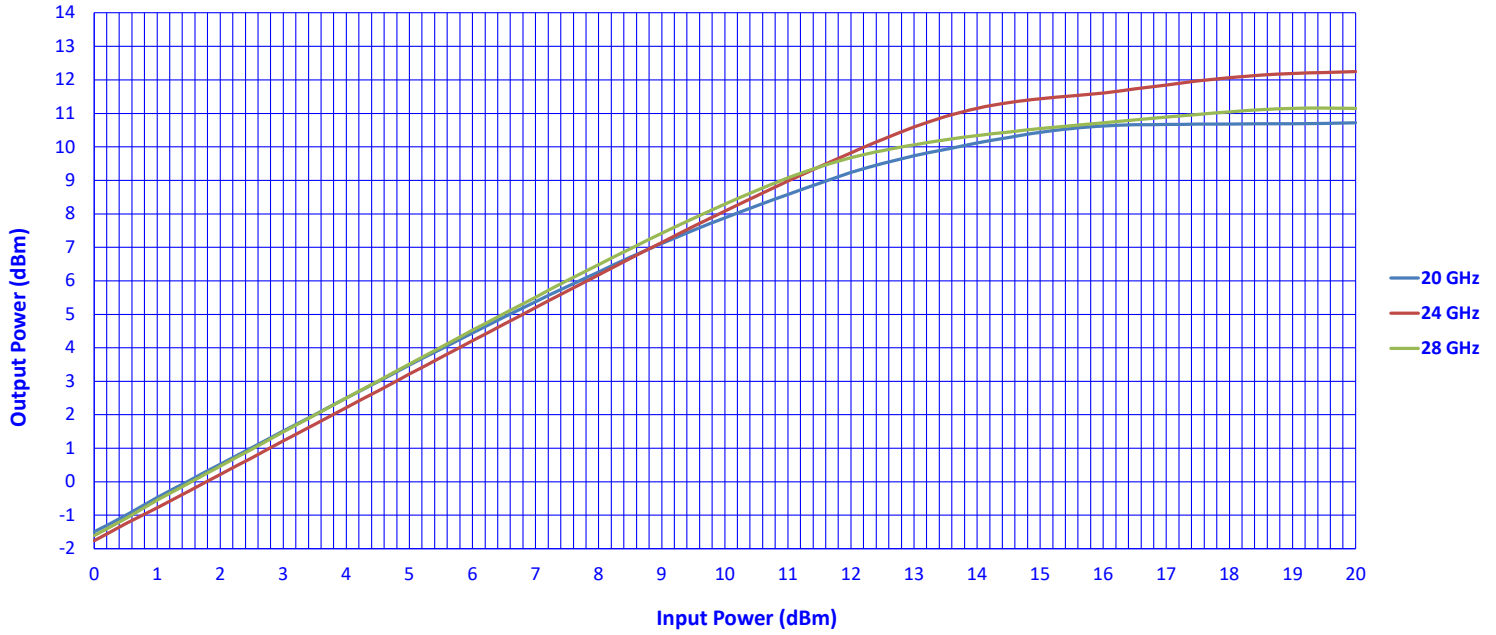


Typical Characteristics
ON



LM-10M40G-15DBM-4W-AGAL

High Power Test Graph 20GHz to 28GHz CW (+25°C)



High Power Test Data 20GHz to 28GHz (CW)

20 GHz				24 GHz				28 GHz			
Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)
0.0	-1.501	1.501	0.000	0.0	-1.762	1.762	0.000	0.0	-1.612	1.612	0.000
0.5	-1.006	1.506	0.005	0.5	-1.263	1.763	0.001	0.5	-1.105	1.605	0.007
1.0	-0.471	1.471	0.030	1.0	-0.783	1.783	0.021	1.0	-0.554	1.554	0.059
1.5	0.024	1.476	0.025	1.5	-0.285	1.785	0.023	1.5	-0.046	1.546	0.066
2.0	0.521	1.479	0.022	2.0	0.214	1.786	0.024	2.0	0.462	1.538	0.074
2.5	1.016	1.484	0.017	2.5	0.714	1.786	0.024	2.5	0.973	1.527	0.085
3.0	1.511	1.489	0.012	3.0	1.214	1.786	0.024	3.0	1.482	1.518	0.094
3.5	2.005	1.495	0.006	3.5	1.714	1.786	0.024	3.5	1.991	1.509	0.103
4.0	2.498	1.502	0.001	4.0	2.212	1.788	0.026	4.0	2.498	1.502	0.110
4.5	2.989	1.511	0.010	4.5	2.711	1.789	0.027	4.5	3.006	1.495	0.118
5.0	3.477	1.523	0.022	5.0	3.210	1.790	0.028	5.0	3.513	1.488	0.125
5.5	3.963	1.537	0.036	5.5	3.709	1.791	0.029	5.5	4.017	1.483	0.129
6.0	4.441	1.559	0.058	6.0	4.208	1.792	0.030	6.0	4.519	1.481	0.131
6.5	4.913	1.587	0.086	6.5	4.703	1.797	0.035	6.5	5.018	1.482	0.130
7.0	5.376	1.624	0.123	7.0	5.198	1.802	0.040	7.0	5.513	1.487	0.125
7.5	5.828	1.672	0.171	7.5	5.689	1.811	0.049	7.5	6.001	1.499	0.113
8.0	6.268	1.733	0.232	8.0	6.178	1.822	0.060	8.0	6.482	1.518	0.094
8.5	6.699	1.801	0.300	8.5	6.667	1.833	0.071	8.5	6.953	1.547	0.065
9.0	7.110	1.890	0.389	9.0	7.144	1.857	0.094	9.0	7.423	1.578	0.035
9.5	7.503	1.997	0.496	9.5	7.619	1.881	0.119	9.5	7.862	1.638	0.026
10.0	7.880	2.120	0.619	10.0	8.079	1.921	0.159	10.0	8.289	1.711	0.099
10.5	8.232	2.268	0.767	10.5	8.532	1.968	0.206	10.5	8.692	1.808	0.196
11.0	8.580	2.420	0.919	11.0	8.973	2.027	0.265	11.0	9.070	1.930	0.318
11.5	8.911	2.589	1.088	11.5	9.403	2.097	0.335	11.5	9.401	2.100	0.488
12.0	9.231	2.769	1.268	12.0	9.823	2.178	0.416	12.0	9.673	2.327	0.715
12.5	9.499	3.001	1.500	12.5	10.220	2.280	0.518	12.5	9.888	2.612	1.000
13.0	9.730	3.270	1.769	13.0	10.588	2.412	0.650	13.0	10.060	2.940	1.328
13.5	9.926	3.574	2.073	13.5	10.903	2.597	0.835	13.5	10.212	3.288	1.676
14.0	10.110	3.890	2.389	14.0	11.151	2.849	1.087	14.0	10.335	3.665	2.053
14.5	10.281	4.219	2.718	14.5	11.321	3.179	1.417	14.5	10.442	4.058	2.446
15.0	10.433	4.567	3.066	15.0	11.438	3.562	1.800	15.0	10.543	4.457	2.845
15.5	10.548	4.952	3.451	15.5	11.523	3.977	2.215	15.5	10.633	4.867	3.255
16.0	10.623	5.377	3.876	16.0	11.610	4.390	2.628	16.0	10.720	5.280	3.668
16.5	10.655	5.845	4.344	16.5	11.725	4.775	3.013	16.5	10.806	5.694	4.082
17.0	10.666	6.334	4.833	17.0	11.847	5.153	3.391	17.0	10.887	6.113	4.501
17.5	10.675	6.825	5.324	17.5	11.965	5.535	3.773	17.5	10.967	6.533	4.921
18.0	10.678	7.322	5.821	18.0	12.062	5.938	4.176	18.0	11.045	6.955	5.343
18.5	10.686	7.814	6.313	18.5	12.136	6.364	4.602	18.5	11.108	7.392	5.780
19.0	10.689	8.311	6.810	19.0	12.189	6.811	5.049	19.0	11.147	7.853	6.241
19.5	10.700	8.800	7.299	19.5	12.219	7.281	5.519	19.5	11.153	8.347	6.735
20.0	10.717	9.283	7.782	20.0	12.243	7.757	5.995	20.0	11.147	8.853	7.241

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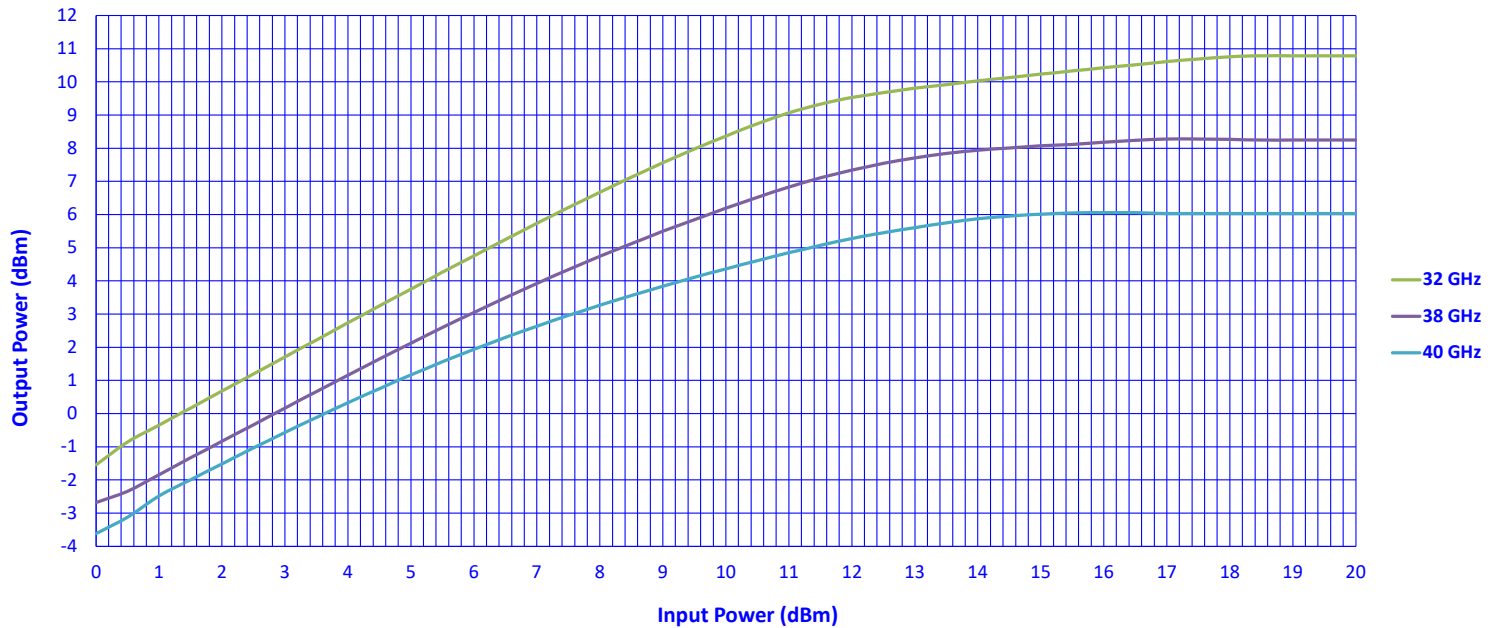
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Typical Characteristics
ON

LM-10M40G-15DBM-4W-AGAL

High Power Test Graph 32GHz to 40GHz CW (+25°C)



High Power Test Data 32GHz to 40GHz (CW)

32 GHz				38 GHz				40 GHz			
Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)
0.0	-1.539	1.539	0.000	0.0	-2.676	2.676	0.000	0.0	-3.613	3.613	0.000
0.5	-0.857	1.357	0.182	0.5	-2.342	2.842	0.166	0.5	-3.121	3.621	0.007
1.0	-0.345	1.345	0.195	1.0	-1.838	2.838	0.162	1.0	-2.478	3.478	0.135
1.5	0.169	1.331	0.208	1.5	-1.334	2.834	0.158	1.5	-1.993	3.493	0.120
2.0	0.683	1.317	0.222	2.0	-0.831	2.831	0.155	2.0	-1.509	3.509	0.104
2.5	1.197	1.303	0.236	2.5	-0.332	2.832	0.156	2.5	-1.034	3.534	0.079
3.0	1.710	1.290	0.249	3.0	0.169	2.831	0.155	3.0	-0.568	3.568	0.045
3.5	2.224	1.277	0.263	3.5	0.665	2.836	0.160	3.5	-0.114	3.614	0.001
4.0	2.737	1.263	0.276	4.0	1.159	2.841	0.165	4.0	0.329	3.672	0.059
4.5	3.248	1.252	0.287	4.5	1.646	2.854	0.178	4.5	0.757	3.743	0.130
5.0	3.756	1.244	0.295	5.0	2.126	2.874	0.198	5.0	1.167	3.833	0.220
5.5	4.261	1.239	0.300	5.5	2.595	2.906	0.230	5.5	1.561	3.939	0.326
6.0	4.760	1.240	0.299	6.0	3.053	2.947	0.271	6.0	1.938	4.063	0.450
6.5	5.254	1.246	0.293	6.5	3.497	3.003	0.327	6.5	2.294	4.206	0.593
7.0	5.739	1.261	0.278	7.0	3.928	3.072	0.396	7.0	2.636	4.364	0.751
7.5	6.215	1.285	0.254	7.5	4.343	3.157	0.481	7.5	2.959	4.541	0.928
8.0	6.678	1.322	0.217	8.0	4.743	3.257	0.581	8.0	3.267	4.733	1.120
8.5	7.126	1.374	0.165	8.5	5.127	3.373	0.697	8.5	3.560	4.940	1.327
9.0	7.560	1.440	0.099	9.0	5.496	3.504	0.828	9.0	3.840	5.160	1.547
9.5	7.981	1.520	0.020	9.5	5.850	3.650	0.974	9.5	4.108	5.392	1.779
10.0	8.369	1.631	0.092	10.0	6.192	3.808	1.132	10.0	4.364	5.636	2.023
10.5	8.742	1.758	0.219	10.5	6.520	3.981	1.305	10.5	4.612	5.888	2.275
11.0	9.066	1.934	0.395	11.0	6.829	4.171	1.495	11.0	4.849	6.151	2.538
11.5	9.330	2.170	0.631	11.5	7.106	4.394	1.718	11.5	5.074	6.426	2.813
12.0	9.528	2.472	0.933	12.0	7.342	4.658	1.982	12.0	5.280	6.720	3.107
12.5	9.674	2.826	1.287	12.5	7.541	4.959	2.283	12.5	5.455	7.045	3.432
13.0	9.808	3.192	1.653	13.0	7.710	5.290	2.614	13.0	5.607	7.393	3.780
13.5	9.921	3.579	2.040	13.5	7.846	5.654	2.978	13.5	5.754	7.746	4.133
14.0	10.031	3.969	2.430	14.0	7.939	6.061	3.385	14.0	5.872	8.128	4.515
14.5	10.135	4.365	2.826	14.5	8.009	6.491	3.815	14.5	5.957	8.543	4.930
15.0	10.233	4.767	3.228	15.0	8.071	6.929	4.253	15.0	6.015	8.985	5.372
15.5	10.329	5.171	3.632	15.5	8.119	7.381	4.705	15.5	6.049	9.451	5.838
16.0	10.426	5.574	4.035	16.0	8.179	7.821	5.145	16.0	6.061	9.939	6.326
16.5	10.518	5.982	4.443	16.5	8.239	8.261	5.585	16.5	6.055	10.445	6.832
17.0	10.611	6.389	4.850	17.0	8.279	8.721	6.045	17.0	6.034	10.966	7.353
17.5	10.692	6.808	5.269	17.5	8.279	9.221	6.545	17.5	6.029	11.471	7.858
18.0	10.756	7.244	5.705	18.0	8.266	9.735	7.059	18.0	6.030	11.970	8.357
18.5	10.789	7.711	6.172	18.5	8.246	10.254	7.578	18.5	6.030	12.470	8.857
19.0	10.789	8.211	6.672	19.0	8.246	10.754	8.078	19.0	6.030	12.970	9.357
19.5	10.789	8.711	7.172	19.5	8.246	11.254	8.578	19.5	6.030	13.470	9.857
20.0	10.785	9.215	7.676	20.0	8.246	11.754	9.078	20.0	6.030	13.970	10.357

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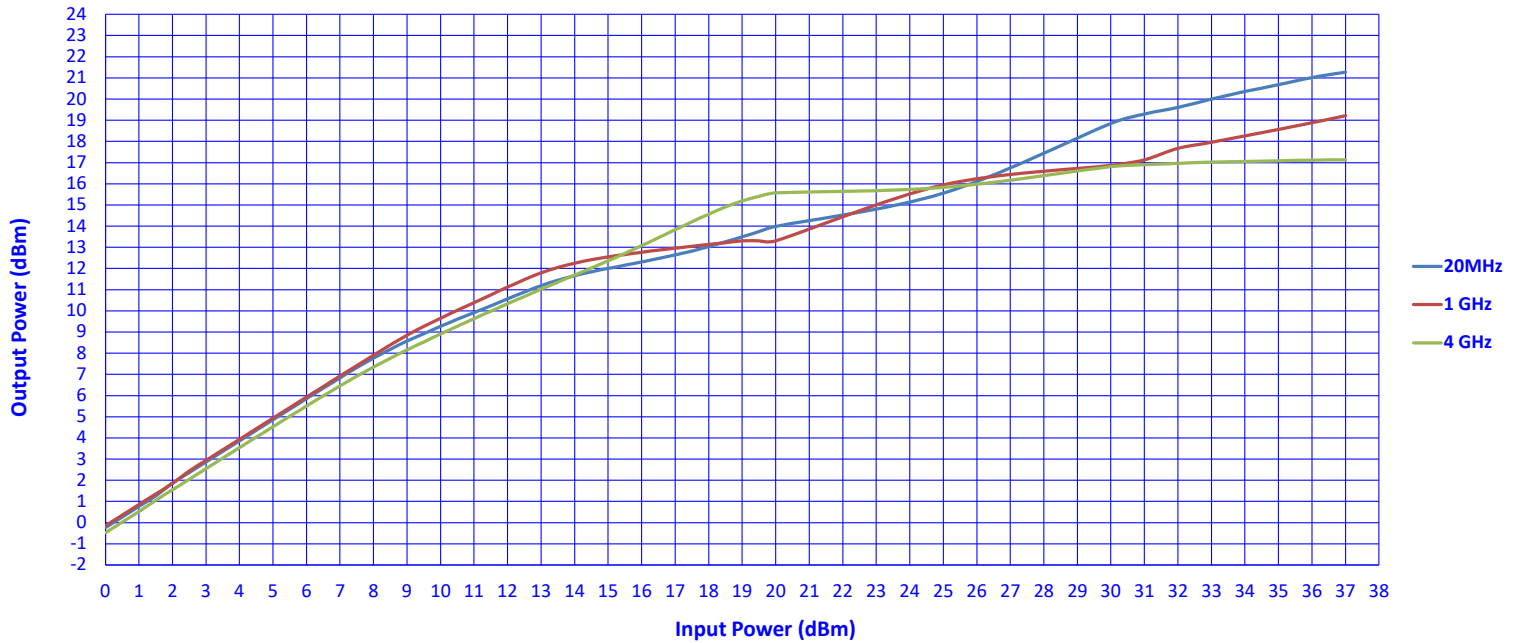


Typical Characteristics
ON



LM-10M40G-15DBM-4W-AGAL

High Power Test Graph 20MHz to 4GHz CW (-55°C)



High Power Test Data 20MHz to 4GHz (CW)												Power Input (Watts)	
20MHz				1GHz				4 GHz					
Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)		
0.0	-0.150	0.150	0.000	0.0	-0.244	0.244	0.000	0.0	-0.478	0.478	0.000		
0.5	0.349	0.151	0.001	0.5	0.257	0.244	0.001	0.5	0.020	0.481	0.003		
1.0	0.847	0.153	0.003	1.0	0.756	0.244	0.000	1.0	0.518	0.482	0.005		
1.5	1.350	0.150	0.000	1.5	1.256	0.244	0.000	1.5	1.052	0.448	0.030		
2.0	1.850	0.151	0.001	2.0	1.857	0.144	0.101	2.0	1.549	0.451	0.027		
2.5	2.436	0.064	0.086	2.5	2.354	0.146	0.098	2.5	2.047	0.453	0.024		
3.0	2.935	0.066	0.084	3.0	2.854	0.146	0.098	3.0	2.543	0.457	0.021		
3.5	3.431	0.069	0.081	3.5	3.353	0.147	0.097	3.5	3.039	0.461	0.017		
4.0	3.931	0.070	0.080	4.0	3.851	0.149	0.095	4.0	3.535	0.465	0.013		
4.5	4.427	0.073	0.077	4.5	4.353	0.147	0.097	4.5	4.030	0.470	0.008		
5.0	4.925	0.075	0.075	5.0	4.850	0.150	0.094	5.0	4.524	0.476	0.002		
5.5	5.423	0.077	0.073	5.5	5.351	0.149	0.095	5.5	5.014	0.486	0.008		
6.0	5.921	0.079	0.071	6.0	5.847	0.153	0.091	6.0	5.501	0.499	0.022		
6.5	6.421	0.079	0.071	6.5	6.342	0.158	0.086	6.5	5.982	0.518	0.041		
7.0	6.918	0.082	0.068	7.0	6.834	0.166	0.078	7.0	6.449	0.551	0.073		
7.5	7.413	0.088	0.062	7.5	7.315	0.185	0.059	7.5	6.904	0.596	0.118		
8.0	7.906	0.094	0.056	8.0	7.769	0.231	0.013	8.0	7.342	0.658	0.180		
8.5	8.386	0.114	0.036	8.5	8.180	0.320	0.076	8.5	7.755	0.745	0.268		
9.0	8.842	0.158	0.008	9.0	8.566	0.434	0.190	9.0	8.154	0.846	0.368		
9.5	9.259	0.242	0.092	9.5	8.920	0.580	0.336	9.5	8.530	0.970	0.492		
10.0	9.651	0.349	0.199	10.0	9.261	0.739	0.495	10.0	8.900	1.100	0.623		
10.5	10.025	0.475	0.325	10.5	9.597	0.903	0.659	10.5	9.267	1.233	0.756		
11.0	10.386	0.614	0.464	11.0	9.917	1.084	0.840	11.0	9.633	1.367	0.889		
11.5	10.753	0.747	0.597	11.5	10.238	1.262	1.018	11.5	9.982	1.518	1.041		
12.0	11.117	0.883	0.733	12.0	10.561	1.439	1.195	12.0	10.335	1.665	1.188		
12.5	11.466	1.034	0.884	12.5	10.879	1.621	1.377	12.5	10.675	1.825	1.348		
13.0	11.789	1.211	1.061	13.0	11.181	1.819	1.575	13.0	11.013	1.987	1.510		
13.5	12.051	1.449	1.299	13.5	11.443	2.057	1.813	13.5	11.354	2.146	1.669		
14.0	12.249	1.751	1.601	14.0	11.659	2.341	2.097	14.0	11.682	2.318	1.841		
14.5	12.409	2.091	1.941	14.5	11.839	2.661	2.417	14.5	12.017	2.483	2.006		
15.0	12.543	2.457	2.307	15.0	12.000	3.000	2.756	15.0	12.358	2.642	2.165		
15.5	12.657	2.843	2.693	15.5	12.149	3.351	3.107	15.5	12.710	2.790	2.313		
16.0	12.760	3.240	3.090	16.0	12.305	3.695	3.451	16.0	13.072	2.928	2.451		
16.5	12.863	3.637	3.487	16.5	12.467	4.033	3.789	16.5	13.446	3.054	2.577		
17.0	12.954	4.046	3.896	17.0	12.637	4.363	4.119	17.0	13.827	3.173	2.696		
17.5	13.042	4.458	4.308	17.5	12.820	4.680	4.436	17.5	14.200	3.300	2.823		
18.0	13.132	4.868	4.718	18.0	13.025	4.975	4.731	18.0	14.558	3.442	2.965		
18.5	13.214	5.286	5.136	18.5	13.250	5.250	5.006	18.5	14.896	3.604	3.127		
19.0	13.297	5.703	5.553	19.0	13.491	5.509	5.265	19.0	15.184	3.816	3.339		
19.5	13.297	6.203	6.053	19.5	13.733	5.767	5.523	19.5	15.400	4.100	3.623		
20.0	13.297	6.703	6.553	20.0	13.982	6.018	5.774	20.0	15.561	4.439	3.962		
25.0	15.940	9.060	8.910	25.0	16.550	8.450	8.206	25.0	15.820	9.180	8.703		
30.0	16.860	13.140	12.990	30.0	18.840	11.160	10.916	30.0	16.800	13.200	12.723	1.00	
31.0	17.120	13.880	13.730	31.0	19.290	11.710	11.466	31.0	16.890	14.110	13.633	1.26	
32.0	17.670	14.330	14.180	32.0	19.600	12.400	12.156	32.0	16.960	15.040	14.563	1.58	
33.0	17.950	15.050	14.900	33.0	19.990	13.010	12.766	33.0	17.010	15.990	15.513	2.00	
34.0	18.260	15.740	15.590	34.0	20.350	13.650	13.406	34.0	17.050	16.950	16.473	2.51	
35.0	18.560	16.440	16.290	35.0	20.670	14.330	14.086	35.0	17.080	17.920	17.443	3.16	
36.0	18.880	17.120	16.970	36.0	21.010	14.990	14.746	36.0	17.110	18.890	18.413	3.98	
37.0	19.210	17.790	17.640	37.0	21.270	15.730	15.486	37.0	17.130	19.870	19.393	5.01	
DO NOT EXCEED													

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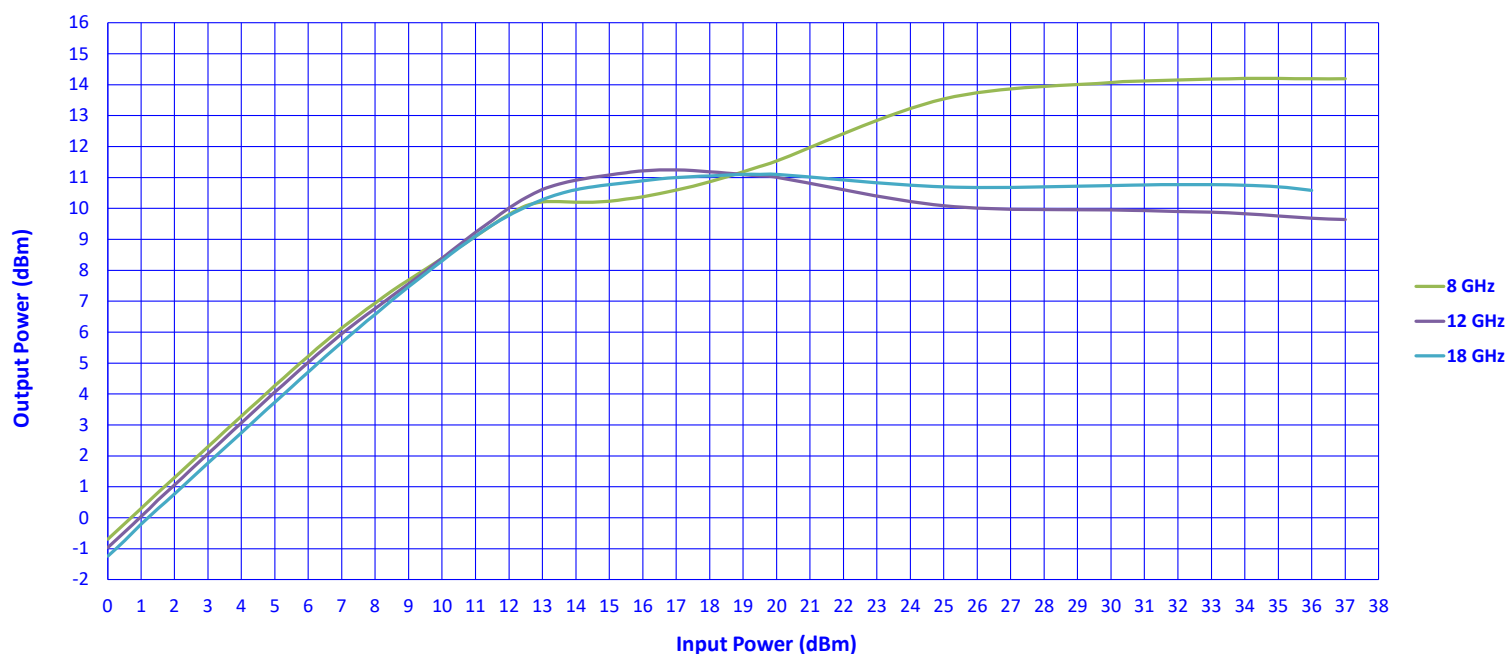
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Typical Characteristics
ON

LM-10M40G-15DBM-4W-AGAL

High Power Test Graph 8GHz to 18GHz CW (-55°C)



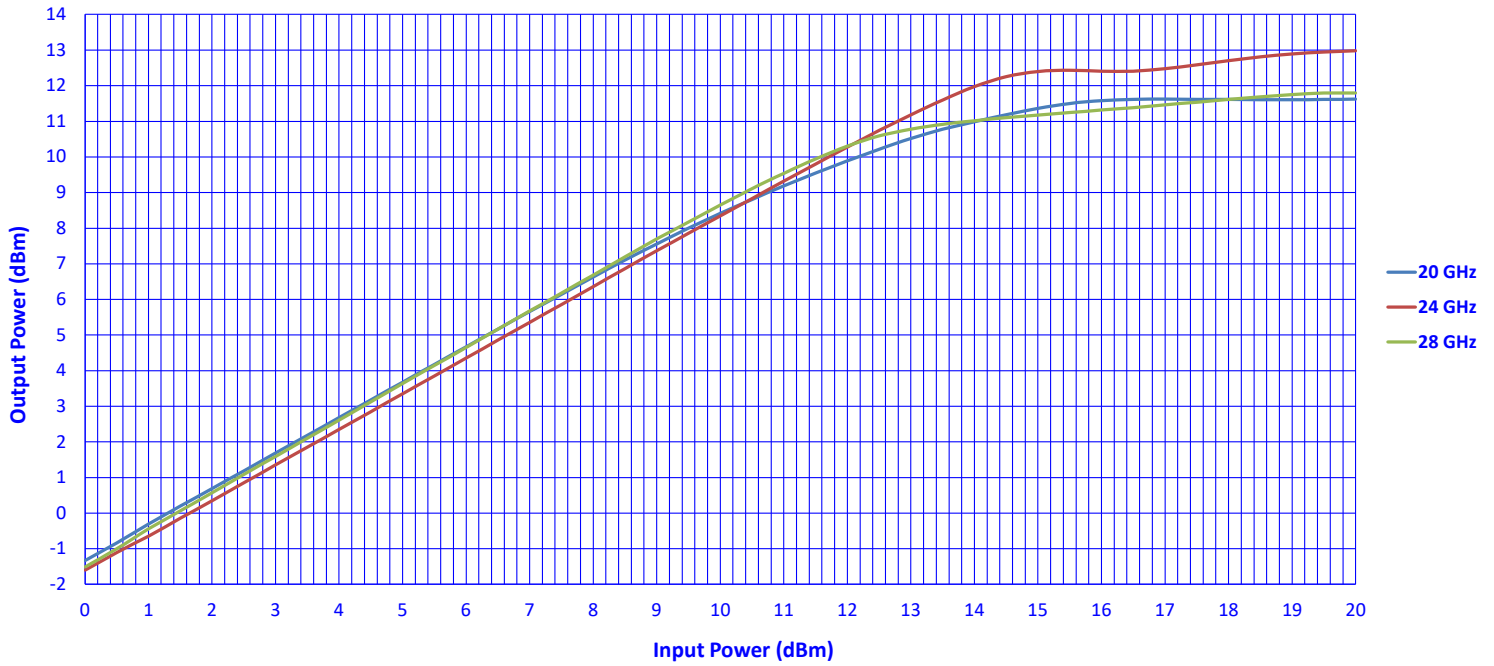
High Power Test Data 8GHz to 18GHz (CW)												Power Input (Watts)
8 GHz				12 GHz				18 GHz				
Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	
0.0	-0.693	0.693	0.000	0.0	-0.968	0.968	0.000	0.0	-1.239	1.239	0.000	
0.5	-0.195	0.695	0.002	0.5	-0.464	0.964	0.004	0.5	-0.747	1.247	0.008	
1.0	0.304	0.696	0.003	1.0	0.039	0.962	0.006	1.0	-0.208	1.208	0.031	
1.5	0.806	0.694	0.001	1.5	0.565	0.935	0.033	1.5	0.285	1.216	0.024	
2.0	1.303	0.697	0.004	2.0	1.067	0.934	0.035	2.0	0.778	1.222	0.017	
2.5	1.799	0.701	0.008	2.5	1.567	0.933	0.035	2.5	1.272	1.228	0.011	
3.0	2.295	0.705	0.012	3.0	2.069	0.931	0.037	3.0	1.766	1.235	0.005	
3.5	2.791	0.709	0.016	3.5	2.569	0.931	0.037	3.5	2.259	1.241	0.002	
4.0	3.287	0.713	0.020	4.0	3.069	0.931	0.037	4.0	2.754	1.246	0.007	
4.5	3.780	0.720	0.027	4.5	3.567	0.934	0.035	4.5	3.246	1.254	0.015	
5.0	4.270	0.730	0.037	5.0	4.061	0.939	0.029	5.0	3.738	1.262	0.023	
5.5	4.754	0.747	0.054	5.5	4.550	0.950	0.018	5.5	4.230	1.270	0.031	
6.0	5.229	0.771	0.078	6.0	5.029	0.971	0.003	6.0	4.717	1.283	0.044	
6.5	5.690	0.811	0.118	6.5	5.496	1.004	0.036	6.5	5.199	1.301	0.062	
7.0	6.129	0.871	0.178	7.0	5.943	1.057	0.089	7.0	5.672	1.328	0.089	
7.5	6.548	0.953	0.260	7.5	6.368	1.132	0.164	7.5	6.134	1.366	0.127	
8.0	6.943	1.057	0.364	8.0	6.767	1.233	0.265	8.0	6.582	1.418	0.179	
8.5	7.332	1.168	0.475	8.5	7.168	1.332	0.364	8.5	7.031	1.469	0.230	
9.0	7.688	1.312	0.619	9.0	7.564	1.436	0.468	9.0	7.467	1.533	0.294	
9.5	8.035	1.466	0.773	9.5	7.970	1.530	0.562	9.5	7.890	1.610	0.371	
10.0	8.386	1.614	0.921	10.0	8.391	1.609	0.641	10.0	8.309	1.691	0.452	
10.5	8.744	1.756	1.063	10.5	8.815	1.685	0.717	10.5	8.718	1.782	0.543	
11.0	9.097	1.903	1.210	11.0	9.225	1.775	0.807	11.0	9.099	1.901	0.662	
11.5	9.463	2.037	1.344	11.5	9.622	1.878	0.910	11.5	9.461	2.039	0.800	
12.0	9.808	2.192	1.499	12.0	10.009	1.991	1.023	12.0	9.778	2.222	0.983	
12.5	10.083	2.417	1.724	12.5	10.349	2.151	1.183	12.5	10.050	2.450	1.211	
13.0	10.212	2.788	2.095	13.0	10.609	2.391	1.423	13.0	10.285	2.715	1.476	
13.5	10.222	3.278	2.585	13.5	10.790	2.710	1.742	13.5	10.468	3.032	1.793	
14.0	10.199	3.801	3.108	14.0	10.912	3.088	2.120	14.0	10.606	3.394	2.155	
14.5	10.202	4.298	3.605	14.5	11.002	3.498	2.530	14.5	10.699	3.801	2.562	
15.0	10.234	4.766	4.073	15.0	11.084	3.916	2.948	15.0	10.770	4.230	2.991	
15.5	10.302	5.198	4.505	15.5	11.157	4.343	3.375	15.5	10.833	4.667	3.428	
16.0	10.380	5.620	4.927	16.0	11.213	4.787	3.819	16.0	10.897	5.103	3.864	
16.5	10.483	6.017	5.324	16.5	11.244	5.256	4.288	16.5	10.955	5.545	4.306	
17.0	10.592	6.408	5.715	17.0	11.244	5.756	4.788	17.0	10.994	6.006	4.767	
17.5	10.722	6.778	6.085	17.5	11.224	6.276	5.308	17.5	11.028	6.472	5.233	
18.0	10.863	7.137	6.444	18.0	11.185	6.815	5.847	18.0	11.053	6.947	5.708	
18.5	11.017	7.483	6.790	18.5	11.144	7.356	6.388	18.5	11.076	7.424	6.185	
19.0	11.184	7.816	7.123	19.0	11.094	7.906	6.938	19.0	11.103	7.897	6.658	
19.5	11.355	8.145	7.452	19.5	11.047	8.453	7.485	19.5	11.102	8.398	7.159	
20.0	11.532	8.468	7.775	20.0	11.012	8.988	8.020	20.0	11.102	8.898	7.659	
25.0	13.540	11.460	10.767	25.0	10.090	14.910	13.942	25.0	10.700	14.300	13.061	
30.0	14.070	15.930	15.237	30.0	9.950	20.050	19.082	30.0	10.740	19.260	18.021	1.00
31.0	14.120	16.880	16.187	31.0	9.930	21.070	20.102	31.0	10.760	20.240	19.001	1.26
32.0	14.150	17.850	17.157	32.0	9.900	22.100	21.132	32.0	10.770	21.230	19.991	1.58
33.0	14.180	18.820	18.127	33.0	9.880	23.120	22.152	33.0	10.770	22.230	20.991	2.00
34.0	14.200	19.800	19.107	34.0	9.830	24.170	23.202	34.0	10.750	23.250	22.011	2.51
35.0	14.200	20.800	20.107	35.0	9.760	25.240	24.272	35.0	10.700	24.300	23.061	3.16
36.0	14.190	21.810	21.117	36.0	9.680	26.320	25.352	36.0	10.580	25.420	24.181	3.98
37.0	14.190	22.810	22.117	37.0	9.640	27.360	26.392		DO NOT EXCEED			5.01
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Typical Characteristics
ON
LM-10M40G-15DBM-4W-AGAL

High Power Test Graph 20GHz to 28GHz CW (-55°C)



High Power Test Data 20GHz to 28GHz (CW)

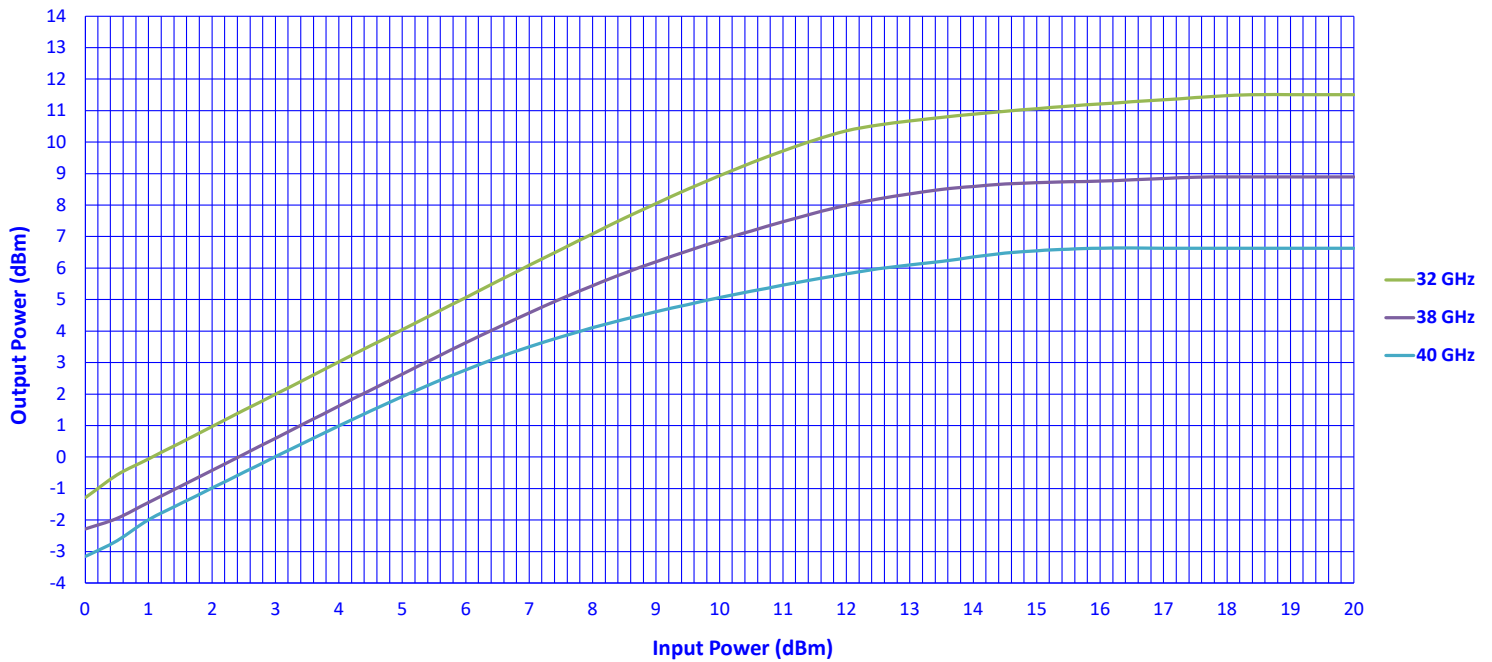
20 GHz				24 GHz				28 GHz			
Power Input (dBm)	Power Output	Loss	Compression (dBm)	Power Input (dBm)	Power Output	Loss	Compression (dBm)	Power Input (dBm)	Power Output	Loss	Compression (dBm)
0.0	-1.332	1.332	0.000	0.0	-1.605	1.605	0.000	0.0	-1.513	1.513	0.000
0.5	-0.837	1.337	0.006	0.5	-1.106	1.606	0.001	0.5	-1.005	1.505	0.008
1.0	-0.308	1.308	0.024	1.0	-0.647	1.647	0.042	1.0	-0.448	1.448	0.065
1.5	0.190	1.310	0.021	1.5	-0.149	1.649	0.044	1.5	0.060	1.440	0.073
2.0	0.689	1.311	0.020	2.0	0.350	1.650	0.045	2.0	0.570	1.430	0.083
2.5	1.186	1.314	0.017	2.5	0.850	1.651	0.046	2.5	1.082	1.418	0.095
3.0	1.684	1.316	0.015	3.0	1.349	1.651	0.046	3.0	1.591	1.409	0.104
3.5	2.182	1.319	0.013	3.5	1.849	1.651	0.046	3.5	2.102	1.398	0.115
4.0	2.679	1.322	0.010	4.0	2.349	1.651	0.046	4.0	2.611	1.389	0.124
4.5	3.178	1.323	0.009	4.5	2.849	1.651	0.046	4.5	3.122	1.378	0.135
5.0	3.675	1.325	0.007	5.0	3.349	1.651	0.046	5.0	3.633	1.367	0.146
5.5	4.175	1.325	0.006	5.5	3.851	1.650	0.045	5.5	4.143	1.357	0.156
6.0	4.671	1.329	0.002	6.0	4.352	1.648	0.043	6.0	4.652	1.348	0.165
6.5	5.166	1.334	0.002	6.5	4.854	1.647	0.041	6.5	5.162	1.338	0.175
7.0	5.658	1.342	0.011	7.0	5.355	1.645	0.040	7.0	5.671	1.329	0.184
7.5	6.145	1.356	0.024	7.5	5.856	1.644	0.039	7.5	6.178	1.322	0.191
8.0	6.627	1.373	0.041	8.0	6.357	1.643	0.038	8.0	6.684	1.316	0.197
8.5	7.104	1.397	0.065	8.5	6.864	1.636	0.031	8.5	7.192	1.308	0.205
9.0	7.556	1.444	0.113	9.0	7.363	1.637	0.032	9.0	7.692	1.308	0.205
9.5	7.997	1.503	0.171	9.5	7.855	1.645	0.040	9.5	8.168	1.332	0.181
10.0	8.412	1.588	0.256	10.0	8.341	1.659	0.054	10.0	8.647	1.353	0.160
10.5	8.804	1.696	0.365	10.5	8.831	1.669	0.064	10.5	9.106	1.394	0.119
11.0	9.183	1.817	0.485	11.0	9.318	1.682	0.077	11.0	9.541	1.459	0.054
11.5	9.543	1.957	0.625	11.5	9.798	1.702	0.097	11.5	9.940	1.560	0.047
12.0	9.886	2.114	0.783	12.0	10.274	1.726	0.121	12.0	10.305	1.695	0.182
12.5	10.212	2.288	0.957	12.5	10.737	1.763	0.158	12.5	10.585	1.915	0.402
13.0	10.516	2.484	1.153	13.0	11.181	1.819	0.214	13.0	10.775	2.225	0.712
13.5	10.775	2.725	1.394	13.5	11.598	1.902	0.297	13.5	10.914	2.586	1.073
14.0	10.983	3.017	1.686	14.0	11.970	2.030	0.425	14.0	11.013	2.987	1.474
14.5	11.184	3.316	1.985	14.5	12.251	2.249	0.644	14.5	11.099	3.401	1.888
15.0	11.359	3.641	2.310	15.0	12.398	2.602	0.997	15.0	11.172	3.828	2.315
15.5	11.500	4.000	2.669	15.5	12.432	3.068	1.463	15.5	11.241	4.259	2.746
16.0	11.576	4.424	3.093	16.0	12.407	3.593	1.988	16.0	11.312	4.688	3.175
16.5	11.613	4.887	3.556	16.5	12.407	4.093	2.488	16.5	11.382	5.118	3.605
17.0	11.622	5.378	4.047	17.0	12.476	4.524	2.919	17.0	11.458	5.542	4.029
17.5	11.615	5.885	4.554	17.5	12.586	4.914	3.309	17.5	11.536	5.964	4.451
18.0	11.613	6.387	5.056	18.0	12.698	5.302	3.697	18.0	11.614	6.386	4.873
18.5	11.604	6.896	5.565	18.5	12.806	5.694	4.089	18.5	11.682	6.818	5.305
19.0	11.604	7.396	6.065	19.0	12.891	6.109	4.504	19.0	11.751	7.249	5.736
19.5	11.609	7.891	6.560	19.5	12.942	6.558	4.953	19.5	11.789	7.711	6.198
20.0	11.620	8.380	7.049	20.0	12.974	7.026	5.421	20.0	11.789	8.211	6.698

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**Typical Characteristics
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LM-10M40G-15DBM-4W-AGAL**

High Power Test Graph 32GHz to 40GHz CW (-55°C)



High Power Test Data 32GHz to 40GHz (CW)

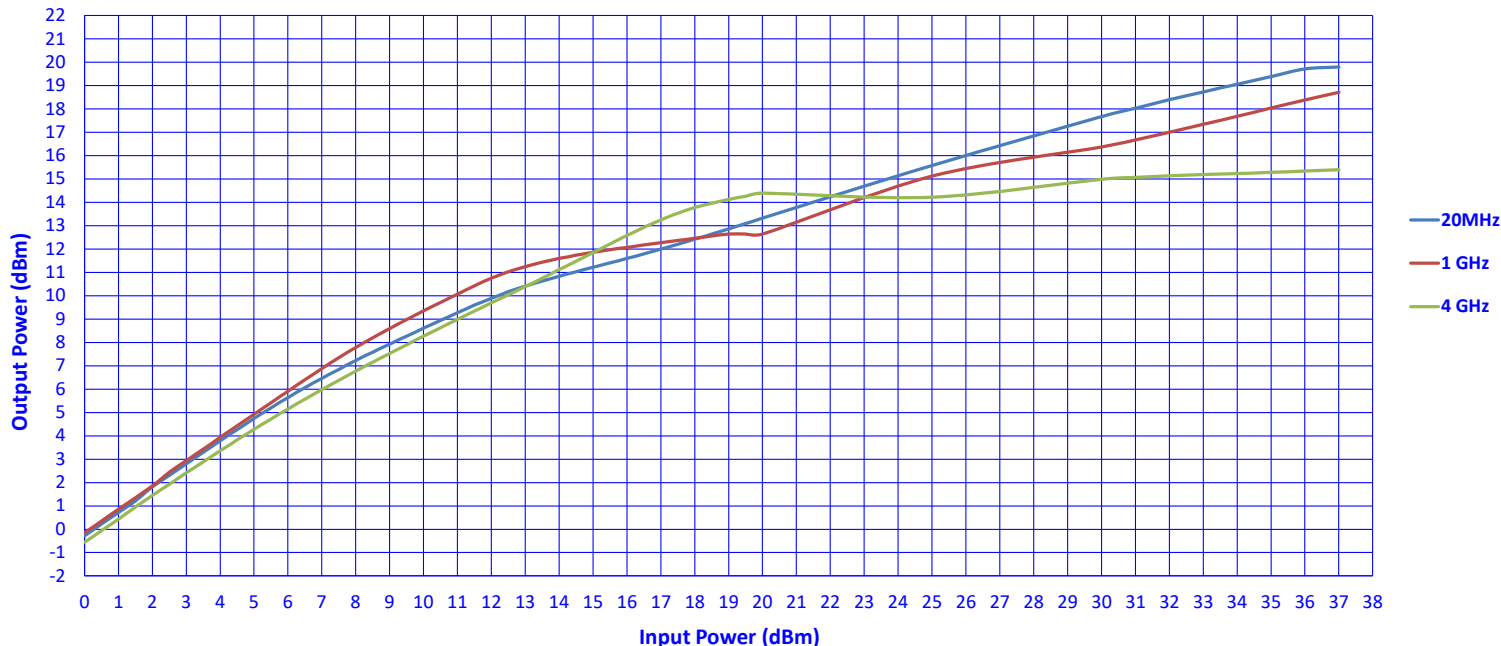
32 GHz				38 GHz				40 GHz			
Power Input (dBm)	Power Output	Loss	Compression (dBm)	Power Input (dBm)	Power Output	Loss	Compression (dBm)	Power Input (dBm)	Power Output	Loss	Compression (dBm)
0.0	-1.289	1.289	0.000	0.0	-2.283	2.283	0.000	0.0	-3.156	3.156	0.000
0.5	-0.570	1.070	0.219	0.5	-1.947	2.447	0.164	0.5	-2.654	3.154	0.002
1.0	-0.058	1.058	0.231	1.0	-1.437	2.437	0.154	1.0	-1.985	2.985	0.171
1.5	0.455	1.045	0.244	1.5	-0.930	2.430	0.147	1.5	-1.483	2.983	0.173
2.0	0.969	1.031	0.258	2.0	-0.423	2.423	0.140	2.0	-0.984	2.984	0.172
2.5	1.484	1.016	0.273	2.5	0.087	2.413	0.130	2.5	-0.486	2.986	0.170
3.0	1.992	1.008	0.281	3.0	0.597	2.403	0.120	3.0	0.010	2.990	0.166
3.5	2.505	0.995	0.294	3.5	1.108	2.392	0.109	3.5	0.501	3.000	0.157
4.0	3.021	0.979	0.310	4.0	1.620	2.380	0.097	4.0	0.987	3.013	0.143
4.5	3.535	0.965	0.324	4.5	2.129	2.371	0.088	4.5	1.463	3.037	0.119
5.0	4.048	0.952	0.337	5.0	2.636	2.365	0.082	5.0	1.921	3.079	0.077
5.5	4.558	0.942	0.347	5.5	3.137	2.364	0.081	5.5	2.358	3.142	0.014
6.0	5.068	0.932	0.357	6.0	3.630	2.370	0.087	6.0	2.771	3.229	0.073
6.5	5.579	0.921	0.368	6.5	4.113	2.387	0.104	6.5	3.152	3.348	0.192
7.0	6.088	0.912	0.377	7.0	4.579	2.421	0.138	7.0	3.498	3.502	0.346
7.5	6.593	0.907	0.382	7.5	5.024	2.476	0.193	7.5	3.816	3.685	0.529
8.0	7.090	0.910	0.379	8.0	5.443	2.557	0.274	8.0	4.104	3.896	0.740
8.5	7.581	0.919	0.370	8.5	5.837	2.663	0.380	8.5	4.370	4.130	0.974
9.0	8.055	0.945	0.344	9.0	6.206	2.794	0.511	9.0	4.616	4.384	1.228
9.5	8.505	0.996	0.294	9.5	6.550	2.950	0.667	9.5	4.845	4.655	1.499
10.0	8.932	1.068	0.221	10.0	6.875	3.125	0.842	10.0	5.060	4.940	1.784
10.5	9.344	1.156	0.133	10.5	7.181	3.319	1.036	10.5	5.263	5.237	2.081
11.0	9.721	1.280	0.009	11.0	7.472	3.528	1.245	11.0	5.456	5.544	2.388
11.5	10.066	1.434	0.145	11.5	7.746	3.754	1.471	11.5	5.639	5.861	2.705
12.0	10.355	1.645	0.356	12.0	7.995	4.005	1.722	12.0	5.816	6.185	3.029
12.5	10.542	1.958	0.669	12.5	8.193	4.307	2.024	12.5	5.975	6.525	3.369
13.0	10.669	2.331	1.042	13.0	8.356	4.644	2.361	13.0	6.100	6.900	3.744
13.5	10.785	2.715	1.426	13.5	8.495	5.005	2.722	13.5	6.211	7.289	4.133
14.0	10.886	3.114	1.825	14.0	8.594	5.406	3.123	14.0	6.350	7.651	4.495
14.5	10.975	3.525	2.236	14.5	8.666	5.834	3.551	14.5	6.472	8.029	4.873
15.0	11.062	3.938	2.649	15.0	8.714	6.286	4.003	15.0	6.552	8.448	5.292
15.5	11.144	4.356	3.067	15.5	8.737	6.763	4.480	15.5	6.603	8.898	5.742
16.0	11.213	4.787	3.498	16.0	8.761	7.239	4.956	16.0	6.631	9.369	6.213
16.5	11.278	5.222	3.933	16.5	8.802	7.698	5.415	16.5	6.638	9.862	6.706
17.0	11.342	5.658	4.369	17.0	8.848	8.152	5.869	17.0	6.628	10.372	7.216
17.5	11.411	6.089	4.800	17.5	8.882	8.618	6.335	17.5	6.625	10.875	7.719
18.0	11.475	6.525	5.236	18.0	8.894	9.107	6.824	18.0	6.625	11.375	8.219
18.5	11.509	6.991	5.702	18.5	8.894	9.607	7.324	18.5	6.625	11.875	8.719
19.0	11.509	7.491	6.202	19.0	8.894	10.107	7.824	19.0	6.625	12.375	9.219
19.5	11.509	7.991	6.702	19.5	8.894	10.607	8.324	19.5	6.625	12.875	9.719
20.0	11.506	8.494	7.205	20.0	8.894	11.107	8.824	20.0	6.625	13.375	10.219

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**Typical Characteristics
ON
LM-10M40G-15DBM-4W-AGAL**



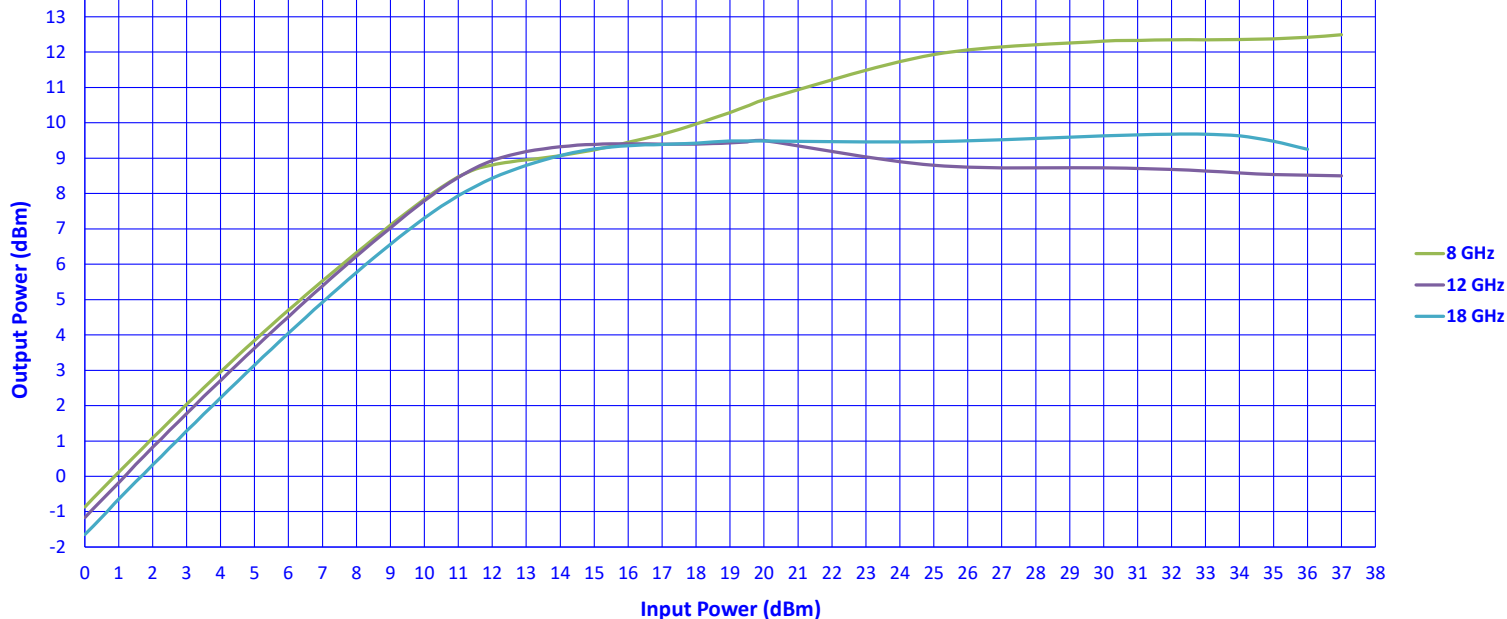
High Power Test Data 20MHz to 4GHz (CW)													Power Input (Watts)
20MHz				1GHz				4 GHz					
Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)		
0.0	-0.144	0.144	0.000	0.0	-0.278	0.278	0.000	0.0	-0.556	0.556	0.000		
0.5	0.355	0.145	0.001	0.5	0.222	0.278	0.000	0.5	-0.062	0.562	0.006		
1.0	0.853	0.147	0.003	1.0	0.721	0.279	0.001	1.0	0.430	0.570	0.014		
1.5	1.355	0.145	0.001	1.5	1.219	0.281	0.003	1.5	0.956	0.544	0.012		
2.0	1.854	0.146	0.002	2.0	1.818	0.182	0.096	2.0	1.445	0.555	0.001		
2.5	2.440	0.060	0.084	2.5	2.313	0.187	0.091	2.5	1.931	0.569	0.013		
3.0	2.939	0.061	0.083	3.0	2.808	0.192	0.086	3.0	2.413	0.587	0.031		
3.5	3.435	0.065	0.079	3.5	3.301	0.199	0.079	3.5	2.891	0.609	0.053		
4.0	3.934	0.067	0.078	4.0	3.789	0.211	0.067	4.0	3.362	0.638	0.082		
4.5	4.429	0.071	0.073	4.5	4.275	0.226	0.052	4.5	3.824	0.676	0.120		
5.0	4.924	0.076	0.068	5.0	4.744	0.256	0.022	5.0	4.277	0.723	0.167		
5.5	5.419	0.081	0.063	5.5	5.203	0.297	0.019	5.5	4.719	0.781	0.225		
6.0	5.911	0.089	0.055	6.0	5.643	0.357	0.079	6.0	5.149	0.851	0.295		
6.5	6.401	0.093	0.045	6.5	6.063	0.437	0.159	6.5	5.570	0.930	0.374		
7.0	6.879	0.121	0.023	7.0	6.465	0.535	0.257	7.0	5.980	1.020	0.464		
7.5	7.346	0.154	0.010	7.5	6.850	0.650	0.372	7.5	6.380	1.120	0.564		
8.0	7.786	0.214	0.070	8.0	7.232	0.768	0.490	8.0	6.772	1.228	0.672		
8.5	8.202	0.298	0.154	8.5	7.586	0.914	0.636	8.5	7.163	1.337	0.781		
9.0	8.597	0.403	0.259	9.0	7.932	1.068	0.790	9.0	7.534	1.466	0.910		
9.5	8.977	0.523	0.379	9.5	8.269	1.231	0.953	9.5	7.906	1.594	1.038		
10.0	9.348	0.652	0.508	10.0	8.607	1.394	1.116	10.0	8.276	1.724	1.168		
10.5	9.714	0.787	0.643	10.5	8.944	1.566	1.278	10.5	8.627	1.873	1.317		
11.0	10.071	0.929	0.785	11.0	9.274	1.726	1.448	11.0	8.989	2.011	1.455		
11.5	10.426	1.074	0.930	11.5	9.593	1.907	1.629	11.5	9.344	2.156	1.600		
12.0	10.747	1.253	1.109	12.0	9.890	2.110	1.832	12.0	9.693	2.307	1.751		
12.5	11.023	1.477	1.333	12.5	10.168	2.332	2.054	12.5	10.040	2.460	1.904		
13.0	11.250	1.750	1.606	13.0	10.412	2.588	2.310	13.0	10.392	2.608	2.052		
13.5	11.435	2.065	1.921	13.5	10.631	2.869	2.591	13.5	10.749	2.751	2.195		
14.0	11.594	2.406	2.262	14.0	10.837	3.163	2.885	14.0	11.116	2.884	2.328		
14.5	11.731	2.769	2.625	14.5	11.030	3.470	3.192	14.5	11.478	3.022	2.466		
15.0	11.856	3.144	3.000	15.0	11.220	3.780	3.502	15.0	11.848	3.152	2.596		
15.5	11.969	3.531	3.387	15.5	11.403	4.097	3.819	15.5	12.220	3.280	2.724		
16.0	12.072	3.928	3.784	16.0	11.593	4.407	4.129	16.0	12.581	3.419	2.863		
16.5	12.172	4.328	4.184	16.5	11.791	4.709	4.431	16.5	12.923	3.577	3.021		
17.0	12.273	4.727	4.583	17.0	11.991	5.009	4.731	17.0	13.246	3.754	3.198		
17.5	12.365	5.135	4.991	17.5	12.205	5.295	5.017	17.5	13.533	3.967	3.411		
18.0	12.457	5.543	5.399	18.0	12.421	5.579	5.301	18.0	13.774	4.226	3.670		
18.5	12.553	5.947	5.803	18.5	12.639	5.861	5.583	18.5	13.963	4.537	3.981		
19.0	12.639	6.361	6.217	19.0	12.862	6.138	5.860	19.0	14.121	4.879	4.323		
19.5	12.635	6.865	6.721	19.5	13.092	6.408	6.130	19.5	14.262	5.238	4.682		
20.0	12.635	7.365	7.221	20.0	13.321	6.679	6.401	20.0	14.389	5.611	5.055		
25.0	15.120	9.880	9.736	25.0	15.580	9.420	9.142	25.0	14.220	10.780	10.224		
30.0	16.370	13.630	13.486	30.0	17.670	12.330	12.052	30.0	14.990	15.010	14.454	1.00	
31.0	16.670	14.330	14.186	31.0	18.030	12.970	12.692	31.0	15.070	15.930	15.374	1.26	
32.0	17.000	15.000	14.856	32.0	18.390	13.610	13.332	32.0	15.130	16.870	16.314	1.58	
33.0	17.340	15.660	15.516	33.0	18.730	14.270	13.992	33.0	15.190	17.810	17.254	2.00	
34.0	17.680	16.320	16.176	34.0	19.060	14.940	14.662	34.0	15.230	18.770	18.214	2.51	
35.0	18.040	16.960	16.816	35.0	19.380	15.620	15.342	35.0	15.280	19.720	19.164	3.16	
36.0	18.380	17.620	17.476	36.0	19.710	16.290	16.012	36.0	15.340	20.660	20.104	3.98	
37.0	18.710	18.290	18.146	37.0	19.800	17.200	16.922	37.0	15.400	21.600	21.044	5.01	
DO NOT EXCEED													

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Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

High Power Test Graph 8GHz to 18GHz CW (+85°C)



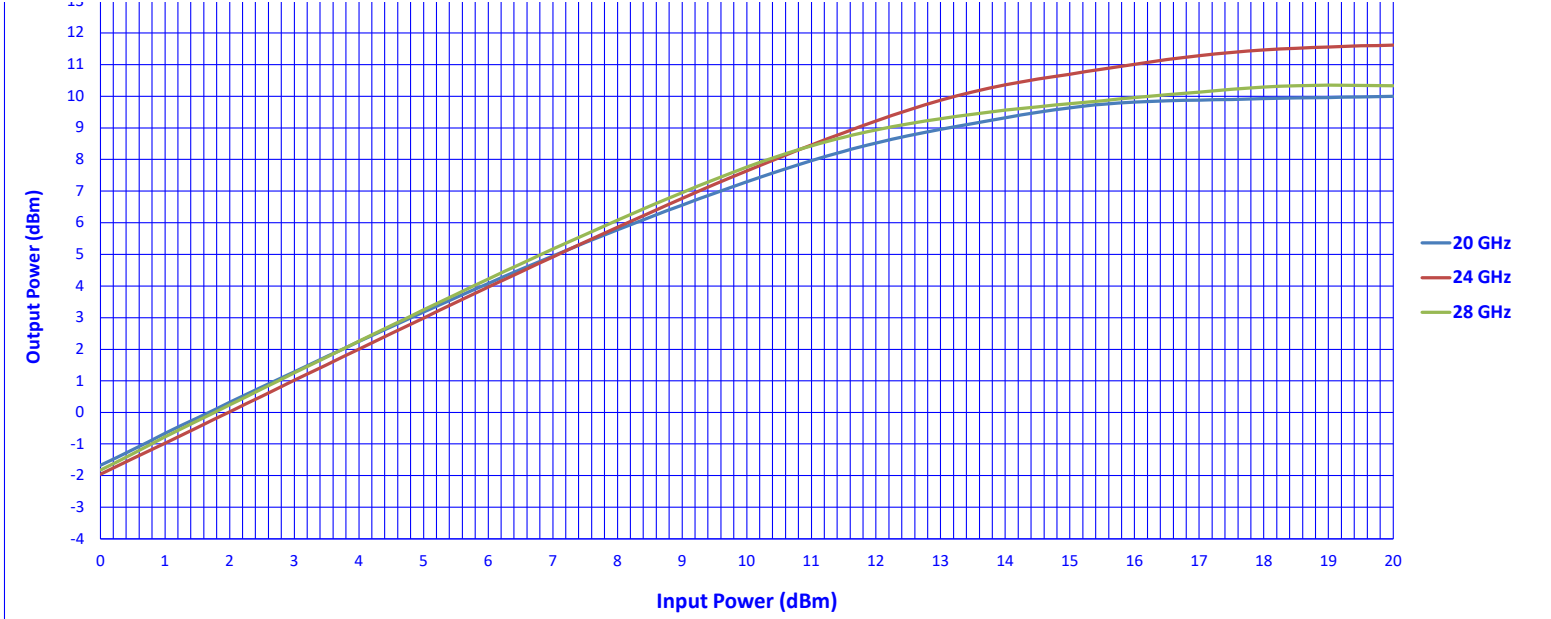
High Power Test Data 8GHz to 18GHz (CW)												Power Input (Watts)
8 GHz				12 GHz				18 GHz				
Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Input (dBm)	Power Output (dBm)	Loss	Compression (dBm)	
0.0	-0.865	0.865	0.000	0.0	-1.165	1.165	0.000	0.0	-1.648	1.648	0.000	
0.5	-0.374	0.874	0.009	0.5	-0.672	1.172	0.007	0.5	-1.162	1.662	0.014	
1.0	0.114	0.887	0.022	1.0	-0.180	1.180	0.015	1.0	-0.642	1.642	0.006	
1.5	0.601	0.899	0.034	1.5	0.334	1.166	0.001	1.5	-0.158	1.658	0.010	
2.0	1.084	0.917	0.052	2.0	0.820	1.180	0.015	2.0	0.324	1.677	0.029	
2.5	1.561	0.939	0.074	2.5	1.300	1.200	0.035	2.5	0.804	1.696	0.048	
3.0	2.034	0.966	0.101	3.0	1.778	1.222	0.057	3.0	1.281	1.719	0.071	
3.5	2.499	1.001	0.136	3.5	2.250	1.250	0.085	3.5	1.755	1.745	0.097	
4.0	2.958	1.042	0.177	4.0	2.715	1.285	0.120	4.0	2.224	1.776	0.128	
4.5	3.409	1.092	0.227	4.5	3.176	1.324	0.159	4.5	2.689	1.812	0.164	
5.0	3.850	1.151	0.286	5.0	3.631	1.369	0.204	5.0	3.150	1.851	0.203	
5.5	4.281	1.219	0.354	5.5	4.080	1.421	0.256	5.5	3.605	1.895	0.247	
6.0	4.705	1.295	0.430	6.0	4.522	1.478	0.313	6.0	4.053	1.947	0.299	
6.5	5.120	1.380	0.515	6.5	4.959	1.541	0.376	6.5	4.494	2.006	0.358	
7.0	5.529	1.471	0.606	7.0	5.389	1.611	0.446	7.0	4.928	2.072	0.424	
7.5	5.931	1.563	0.704	7.5	5.813	1.687	0.522	7.5	5.354	2.146	0.498	
8.0	6.325	1.675	0.810	8.0	6.227	1.773	0.608	8.0	5.771	2.229	0.581	
8.5	6.715	1.786	0.921	8.5	6.637	1.863	0.698	8.5	6.175	2.325	0.677	
9.0	7.104	1.896	1.031	9.0	7.029	1.971	0.806	9.0	6.567	2.433	0.785	
9.5	7.479	2.021	1.156	9.5	7.426	2.074	0.909	9.5	6.946	2.554	0.906	
10.0	7.842	2.158	1.293	10.0	7.794	2.206	1.041	10.0	7.306	2.694	1.046	
10.5	8.176	2.324	1.459	10.5	8.145	2.356	1.191	10.5	7.639	2.861	1.213	
11.0	8.472	2.528	1.663	11.0	8.459	2.541	1.376	11.0	7.937	3.063	1.415	
11.5	8.687	2.813	1.948	11.5	8.725	2.775	1.610	11.5	8.202	3.298	1.650	
12.0	8.810	3.190	2.325	12.0	8.933	3.067	1.902	12.0	8.437	3.563	1.915	
12.5	8.892	3.608	2.743	12.5	9.077	3.423	2.258	12.5	8.625	3.875	2.227	
13.0	8.956	4.044	3.179	13.0	9.189	3.812	2.647	13.0	8.796	4.204	2.556	
13.5	9.005	4.495	3.630	13.5	9.265	4.235	3.070	13.5	8.944	4.556	2.908	
14.0	9.075	4.925	4.060	14.0	9.321	4.679	3.514	14.0	9.075	4.925	3.277	
14.5	9.153	5.347	4.482	14.5	9.368	5.132	3.967	14.5	9.183	5.317	3.669	
15.0	9.238	5.762	4.897	15.0	9.391	5.609	4.444	15.0	9.257	5.743	4.095	
15.5	9.338	6.162	5.297	15.5	9.407	6.093	4.928	15.5	9.315	6.186	4.538	
16.0	9.447	6.553	5.688	16.0	9.407	6.593	5.428	16.0	9.353	6.648	5.000	
16.5	9.562	6.938	6.073	16.5	9.407	7.093	5.928	16.5	9.375	7.125	5.477	
17.0	9.681	7.319	6.454	17.0	9.395	7.605	6.440	17.0	9.387	7.614	5.966	
17.5	9.816	7.684	6.819	17.5	9.395	8.105	6.940	17.5	9.409	8.091	6.443	
18.0	9.968	8.032	7.167	18.0	9.399	8.601	7.436	18.0	9.424	8.576	6.928	
18.5	10.131	8.369	7.504	18.5	9.415	9.086	7.921	18.5	9.457	9.043	7.395	
19.0	10.296	8.704	7.839	19.0	9.430	9.570	8.405	19.0	9.483	9.517	7.869	
19.5	10.470	9.030	8.165	19.5	9.465	10.036	8.871	19.5	9.483	10.017	8.369	
20.0	10.656	9.344	8.479	20.0	9.495	10.505	9.340	20.0	9.483	10.517	8.869	
25.0	11.930	13.070	12.205	25.0	8.800	16.200	15.035	25.0	9.470	15.530	13.882	
30.0	12.310	17.690	16.825	30.0	8.730	21.270	20.105	30.0	9.630	20.370	18.722	1.00
31.0	12.330	18.670	17.805	31.0	8.710	22.290	21.125	31.0	9.660	21.340	19.692	1.26
32.0	12.350	19.650	18.785	32.0	8.680	23.320	22.155	32.0	9.680	22.320	20.672	1.58
33.0	12.350	20.650	19.785	33.0	8.640	24.360	23.195	33.0	9.680	23.320	21.672	2.00
34.0	12.360	21.640	20.775	34.0	8.580	25.420	24.255	34.0	9.630	24.370	22.722	2.51
35.0	12.380	22.620	21.755	35.0	8.540	26.460	25.295	35.0	9.480	25.520	23.872	3.16
36.0	12.420	23.580	22.715	36.0	8.520	27.480	26.315	36.0	9.250	26.750	25.102	3.98
37.0	12.490	24.510	23.645	37.0	8.500	28.500	27.335	DO NOT EXCEED				5.01
DO NOT EXCEED												

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Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

High Power Test Graph 20GHz to 28GHz CW (+85°C)



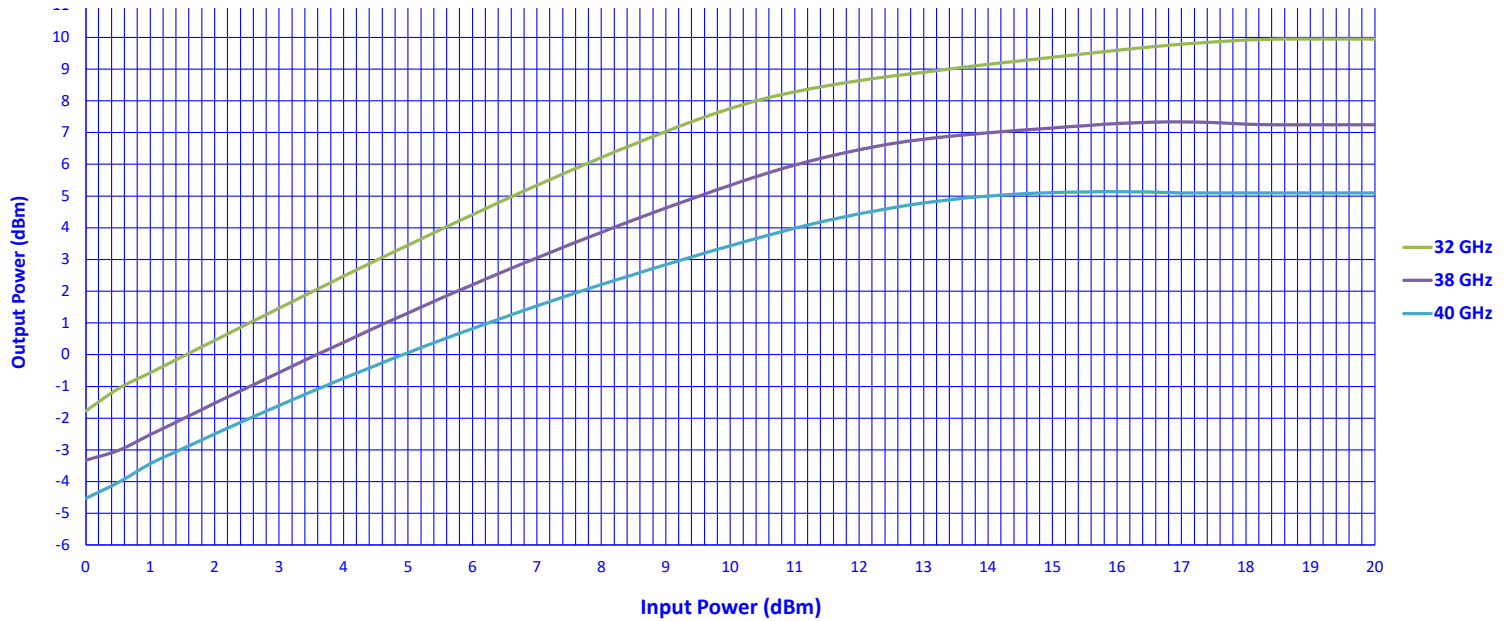
High Power Test Data 20GHz to 28GHz (CW)											
20 GHz				24 GHz				28 GHz			
Power Input (dBm)	Power Output	Loss	Compression (dBm)	Power Input (dBm)	Power Output	Loss	Compression (dBm)	Power Input (dBm)	Power Output	Loss	Compression (dBm)
0.0	-1.669	1.669	0.000	0.0	-1.956	1.956	0.000	0.0	-1.820	1.820	0.000
0.5	-1.180	1.680	0.011	0.5	-1.459	1.959	0.003	0.5	-1.311	1.811	0.009
1.0	-0.658	1.658	0.011	1.0	-0.972	1.972	0.016	1.0	-0.772	1.772	0.049
1.5	-0.170	1.670	0.001	1.5	-0.476	1.976	0.020	1.5	-0.266	1.766	0.054
2.0	0.317	1.683	0.014	2.0	0.021	1.979	0.023	2.0	0.238	1.762	0.058
2.5	0.804	1.696	0.027	2.5	0.518	1.982	0.026	2.5	0.744	1.756	0.064
3.0	1.286	1.714	0.045	3.0	1.015	1.985	0.029	3.0	1.249	1.751	0.069
3.5	1.765	1.735	0.066	3.5	1.510	1.990	0.034	3.5	1.750	1.750	0.070
4.0	2.240	1.760	0.091	4.0	2.004	1.997	0.041	4.0	2.251	1.749	0.071
4.5	2.709	1.791	0.122	4.5	2.496	2.004	0.048	4.5	2.748	1.752	0.068
5.0	3.173	1.827	0.158	5.0	2.986	2.014	0.058	5.0	3.242	1.758	0.062
5.5	3.631	1.869	0.200	5.5	3.475	2.026	0.070	5.5	3.733	1.767	0.053
6.0	4.079	1.921	0.252	6.0	3.960	2.040	0.084	6.0	4.220	1.780	0.040
6.5	4.519	1.982	0.313	6.5	4.442	2.059	0.103	6.5	4.694	1.806	0.014
7.0	4.948	2.053	0.384	7.0	4.918	2.082	0.126	7.0	5.164	1.836	0.016
7.5	5.366	2.134	0.465	7.5	5.389	2.111	0.155	7.5	5.626	1.875	0.055
8.0	5.773	2.227	0.558	8.0	5.854	2.146	0.190	8.0	6.077	1.923	0.103
8.5	6.168	2.332	0.663	8.5	6.311	2.189	0.233	8.5	6.518	1.983	0.163
9.0	6.555	2.445	0.776	9.0	6.767	2.233	0.277	9.0	6.944	2.056	0.236
9.5	6.926	2.574	0.905	9.5	7.207	2.293	0.337	9.5	7.363	2.137	0.317
10.0	7.286	2.714	1.045	10.0	7.631	2.369	0.413	10.0	7.753	2.247	0.427
10.5	7.631	2.869	1.200	10.5	8.053	2.447	0.491	10.5	8.112	2.388	0.568
11.0	7.955	3.045	1.376	11.0	8.452	2.548	0.592	11.0	8.427	2.573	0.753
11.5	8.257	3.243	1.574	11.5	8.840	2.661	0.705	11.5	8.702	2.798	0.978
12.0	8.516	3.484	1.815	12.0	9.211	2.789	0.833	12.0	8.932	3.068	1.248
12.5	8.747	3.753	2.084	12.5	9.557	2.943	0.987	12.5	9.119	3.381	1.561
13.0	8.945	4.055	2.386	13.0	9.868	3.133	1.177	13.0	9.286	3.714	1.894
13.5	9.135	4.365	2.696	13.5	10.134	3.366	1.410	13.5	9.426	4.074	2.254
14.0	9.317	4.683	3.014	14.0	10.352	3.648	1.692	14.0	9.553	4.447	2.627
14.5	9.484	5.016	3.347	14.5	10.536	3.964	2.008	14.5	9.661	4.839	3.019
15.0	9.627	5.373	3.704	15.0	10.695	4.305	2.349	15.0	9.758	5.242	3.422
15.5	9.744	5.756	4.087	15.5	10.851	4.649	2.693	15.5	9.854	5.646	3.826
16.0	9.807	6.193	4.524	16.0	11.002	4.998	3.042	16.0	9.951	6.049	4.229
16.5	9.852	6.649	4.980	16.5	11.151	5.349	3.393	16.5	10.038	6.462	4.642
17.0	9.875	7.125	5.456	17.0	11.277	5.723	3.767	17.0	10.128	6.872	5.052
17.5	9.896	7.604	5.935	17.5	11.380	6.120	4.164	17.5	10.212	7.288	5.468
18.0	9.919	8.081	6.412	18.0	11.457	6.543	4.587	18.0	10.284	7.716	5.896
18.5	9.940	8.560	6.891	18.5	11.514	6.986	5.030	18.5	10.329	8.171	6.351
19.0	9.953	9.047	7.378	19.0	11.552	7.448	5.492	19.0	10.342	8.658	6.838
19.5	9.976	9.524	7.855	19.5	11.586	7.914	5.958	19.5	10.335	9.165	7.345
20.0	9.990	10.010	8.341	20.0	11.607	8.393	6.437	20.0	10.325	9.675	7.855

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Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

High Power Test Graph 32GHz to 40GHz CW (+85°C)



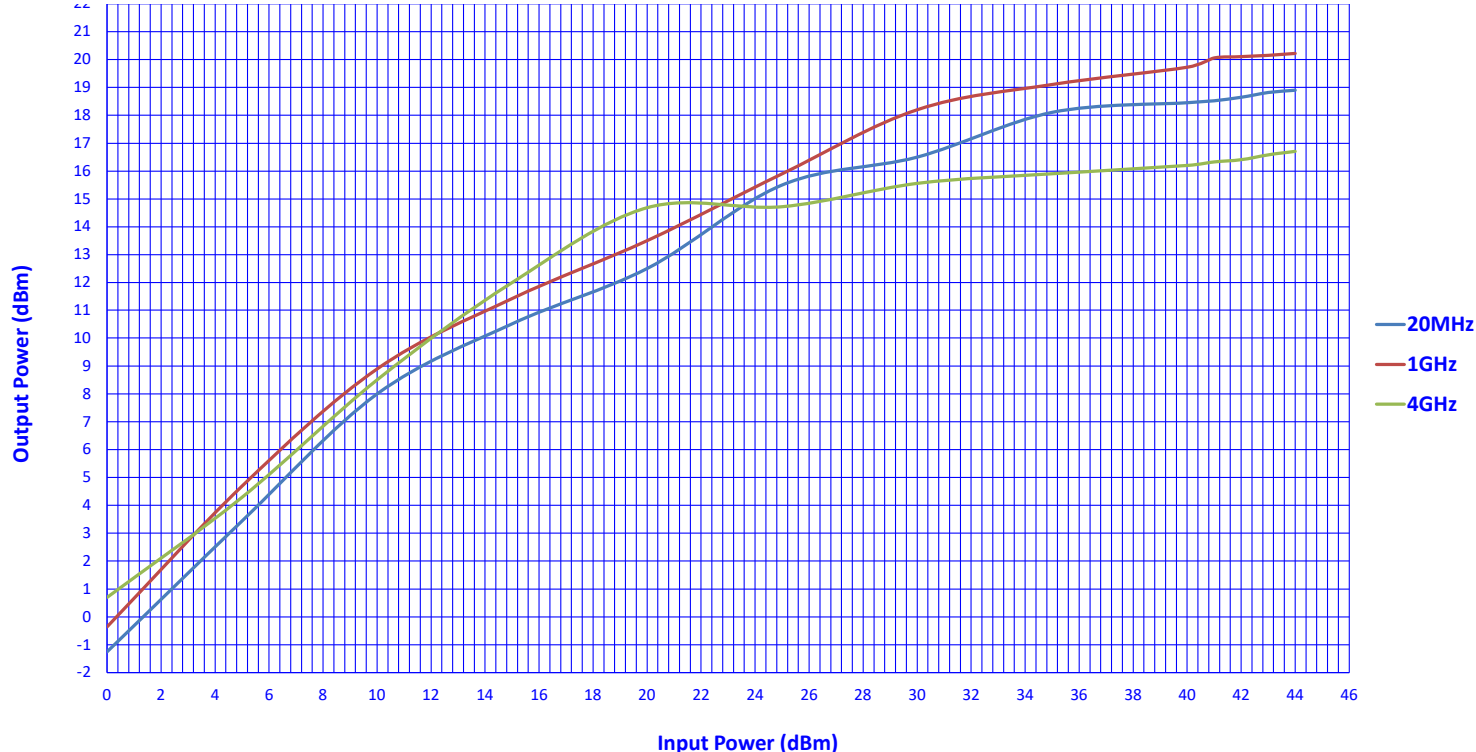
High Power Test Data 32GHz to 40GHz (CW)											
32 GHz				38 GHz				40 GHz			
Power Input (dBm)	Power Output	Loss	Compression (dBm)	Power Input (dBm)	Power Output	Loss	Compression (dBm)	Power Input (dBm)	Power Output	Loss	Compression (dBm)
0.0	-1.766	1.766	0.000	0.0	-3.327	3.327	0.000	0.0	-4.518	4.518	0.000
0.5	-1.077	1.577	0.189	0.5	-3.019	3.519	0.192	0.5	-4.034	4.534	0.016
1.0	-0.566	1.566	0.200	1.0	-2.521	3.521	0.194	1.0	-3.434	4.434	0.084
1.5	-0.057	1.557	0.209	1.5	-2.024	3.524	0.197	1.5	-2.961	4.461	0.057
2.0	0.452	1.548	0.218	2.0	-1.531	3.531	0.204	2.0	-2.500	4.500	0.018
2.5	0.961	1.539	0.227	2.5	-1.042	3.542	0.215	2.5	-2.045	4.545	0.027
3.0	1.468	1.532	0.234	3.0	-0.557	3.557	0.230	3.0	-1.601	4.601	0.083
3.5	1.972	1.528	0.238	3.5	-0.079	3.579	0.252	3.5	-1.168	4.668	0.150
4.0	2.473	1.527	0.239	4.0	0.393	3.607	0.280	4.0	-0.744	4.744	0.226
4.5	2.968	1.532	0.234	4.5	0.859	3.641	0.314	4.5	-0.334	4.834	0.316
5.0	3.457	1.543	0.223	5.0	1.319	3.681	0.354	5.0	0.066	4.934	0.416
5.5	3.941	1.559	0.207	5.5	1.769	3.731	0.404	5.5	0.451	5.049	0.531
6.0	4.417	1.583	0.183	6.0	2.207	3.793	0.466	6.0	0.825	5.175	0.657
6.5	4.883	1.617	0.149	6.5	2.636	3.864	0.537	6.5	1.187	5.313	0.795
7.0	5.338	1.662	0.104	7.0	3.054	3.946	0.619	7.0	1.538	5.462	0.944
7.5	5.782	1.718	0.048	7.5	3.462	4.038	0.711	7.5	1.879	5.621	1.103
8.0	6.215	1.786	0.019	8.0	3.860	4.140	0.813	8.0	2.209	5.792	1.274
8.5	6.631	1.869	0.103	8.5	4.247	4.253	0.926	8.5	2.529	5.971	1.453
9.0	7.032	1.968	0.202	9.0	4.624	4.376	1.049	9.0	2.841	6.159	1.641
9.5	7.413	2.087	0.321	9.5	4.990	4.510	1.183	9.5	3.143	6.357	1.839
10.0	7.756	2.244	0.478	10.0	5.343	4.657	1.330	10.0	3.437	6.564	2.046
10.5	8.055	2.445	0.679	10.5	5.676	4.824	1.497	10.5	3.719	6.781	2.263
11.0	8.283	2.717	0.951	11.0	5.977	5.023	1.696	11.0	3.985	7.015	2.497
11.5	8.477	3.023	1.257	11.5	6.238	5.262	1.935	11.5	4.229	7.271	2.753
12.0	8.636	3.364	1.598	12.0	6.461	5.539	2.212	12.0	4.440	7.560	3.042
12.5	8.779	3.722	1.956	12.5	6.646	5.854	2.527	12.5	4.623	7.877	3.359
13.0	8.902	4.098	2.332	13.0	6.792	6.208	2.881	13.0	4.781	8.219	3.701
13.5	9.031	4.469	2.703	13.5	6.904	6.596	3.269	13.5	4.906	8.594	4.076
14.0	9.148	4.852	3.086	14.0	6.994	7.006	3.679	14.0	4.999	9.001	4.483
14.5	9.266	5.234	3.468	14.5	7.072	7.428	4.101	14.5	5.065	9.435	4.917
15.0	9.372	5.629	3.863	15.0	7.147	7.853	4.526	15.0	5.107	9.893	5.375
15.5	9.488	6.012	4.246	15.5	7.220	8.280	4.953	15.5	5.129	10.371	5.853
16.0	9.593	6.407	4.641	16.0	7.283	8.717	5.390	16.0	5.134	10.866	6.348
16.5	9.695	6.805	5.039	16.5	7.323	9.177	5.850	16.5	5.125	11.375	6.857
17.0	9.783	7.217	5.451	17.0	7.334	9.666	6.339	17.0	5.102	11.898	7.380
17.5	9.861	7.639	5.873	17.5	7.316	10.184	6.857	17.5	5.098	12.402	7.884
18.0	9.913	8.087	6.321	18.0	7.269	10.731	7.404	18.0	5.097	12.903	8.385
18.5	9.945	8.555	6.789	18.5	7.245	11.255	7.928	18.5	5.097	13.403	8.885
19.0	9.945	9.055	7.289	19.0	7.245	11.755	8.428	19.0	5.097	13.903	9.385
19.5	9.945	9.555	7.789	19.5	7.245	12.255	8.928	19.5	5.096	14.404	9.886
20.0	9.945	10.055	8.289	20.0	7.245	12.755	9.428	20.0	5.096	14.904	10.386

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Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

Peak Power Test Graph (1μs PW, 1% Duty Cycle, 10KHz PRF)



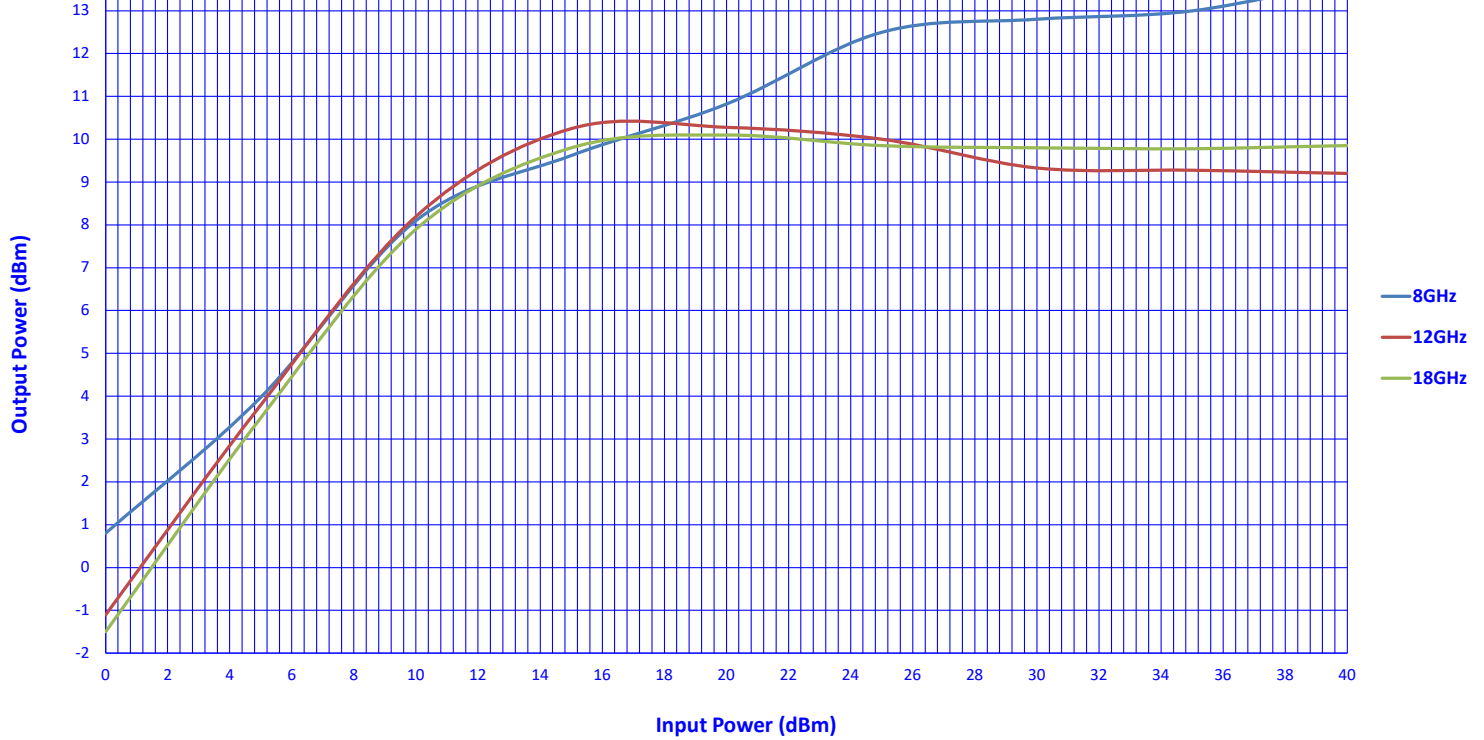
Peak Power Test Data (1μs PW, 1% Duty Cycle, 10 KHz PRF)									Power Input (Watts)
20MHz			1GHz			4GHz			
Power Input (dBm)	Power Output (dBm)	Loss	Power Input (dBm)	Power Output (dBm)	Loss	Power Input (dBm)	Power Output (dBm)	Loss	
0.0	-1.25	1.25	0.0	-0.35	0.35	0.0	0.70	-0.70	
5.0	3.45	1.55	5.0	4.70	0.30	5.0	4.30	0.70	
10.0	8.00	2.00	10.0	8.90	1.10	10.0	8.51	1.49	
15.0	10.52	4.48	15.0	11.42	3.58	15.0	12.00	3.00	
20.0	12.50	7.50	20.0	13.50	6.50	20.0	14.68	5.32	
25.0	15.50	9.50	25.0	15.90	9.10	25.0	14.72	10.28	
30.0	16.50	13.50	30.0	18.20	11.80	30.0	15.55	14.45	1
35.0	18.10	16.90	35.0	19.10	15.90	35.0	15.90	19.10	3
40.0	18.45	21.55	40.0	19.72	20.28	40.0	16.20	23.80	10
41.0	18.52	22.48	41.0	20.05	20.95	41.0	16.33	24.67	13
42.0	18.64	23.36	42.0	20.10	21.90	42.0	16.40	25.60	16
43.0	18.81	24.19	43.0	20.15	22.85	43.0	16.6	26.42	20
44.0	18.90	25.10	44.0	20.22	23.78	44.0	16.70	27.30	25
DO NOT EXCEED									

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Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

Peak Power Test Graph (1 μ s PW, 1% Duty Cycle, 10KHz PRF)



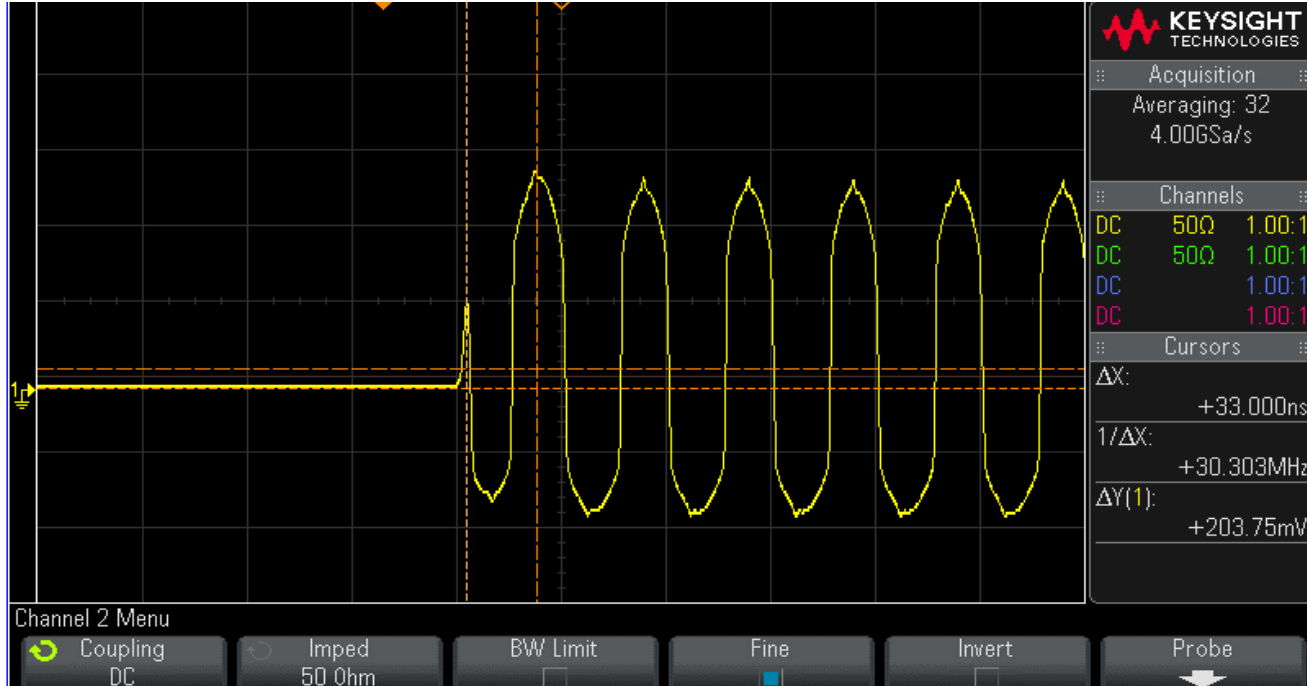
Peak Power Test Data (1μs PW, 1% Duty Cycle, 10 KHz PRF)									Power Input (Watts)
8GHz			12GHz			18GHz			
Power Input (dBm)	Power Output (dBm)	Loss	Power Input (dBm)	Power Output (dBm)	Loss	Power Input (dBm)	Power Output (dBm)	Loss	
0.0	0.80	-0.80	0.0	-1.10	1.10	0.0	-1.50	1.50	
5.0	3.98	1.02	5.0	3.80	1.20	5.0	3.50	1.50	
10.0	8.10	1.90	10.0	8.20	1.80	10.0	7.90	2.10	
15.0	9.62	5.38	15.0	10.25	4.75	15.0	9.80	5.20	
20.0	10.82	9.18	20.0	10.28	9.72	20.0	10.10	9.90	
25.0	12.50	12.50	25.0	10.00	15.00	25.0	9.85	15.15	
30.0	12.80	17.20	30.0	9.33	20.67	30.0	9.80	20.20	1
35.0	13.00	22.00	35.0	9.28	25.72	35.0	9.78	25.22	3
40.0	13.70	26.30	40.0	9.20	30.80	40.0	9.85	30.15	10
41.0	13.80	27.20	41.0	9.18	31.82	41.0	9.90	31.10	13
42.0	13.95	28.05	42.0	9.15	32.85	42.0	9.780	32.22	16
43.0	14.00	29.00	43.0	9.10	33.90	43.0	9.800	33.20	20
44.0	12.05	31.95	44.0	9.00	35.00	DO NOT EXCEED			25
DO NOT EXCEED									

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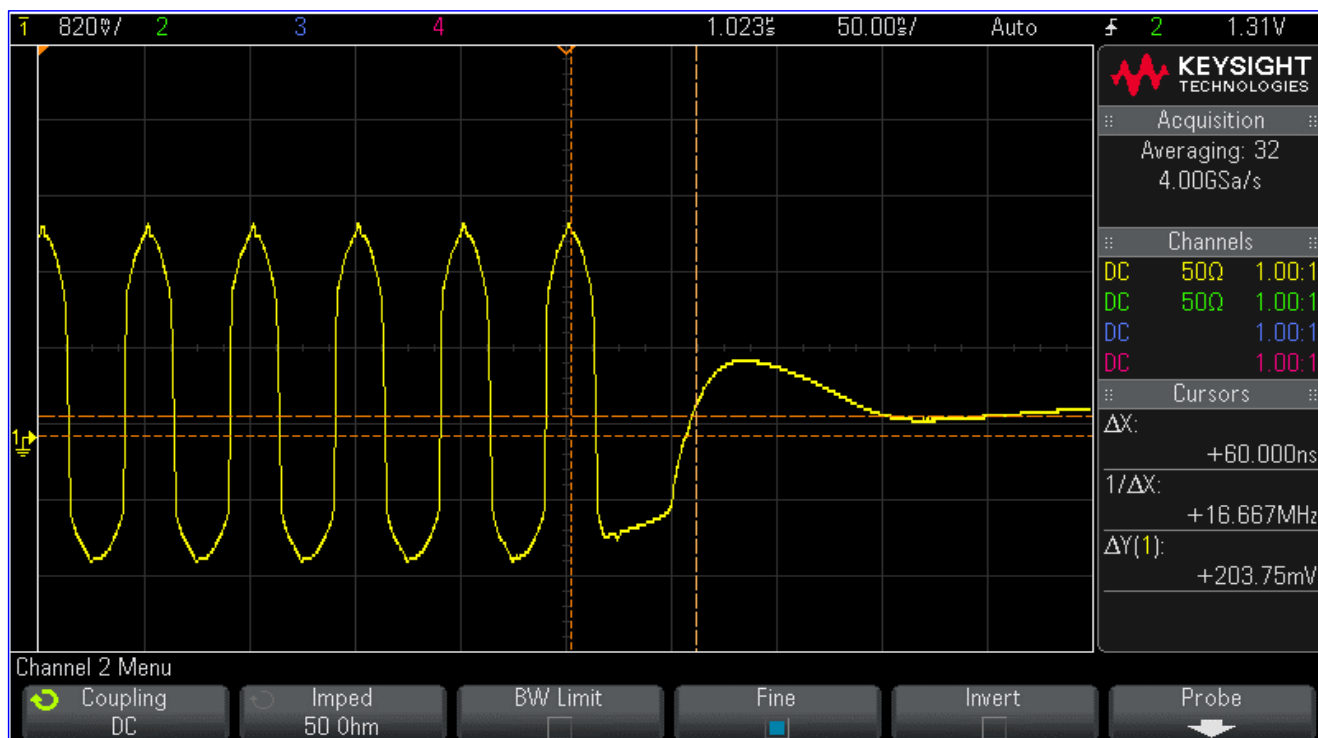


Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

Rise Time +30dBm (1 Watt) @ 20MHz
Pulse (Pw 1 μ s, Duty Cycle 1%, Pulse Rate 10KHz)
50ns Per Div. Measured Value (33.0ns)



Recovery Time +30dBm (1 Watt) @ 20MHz
Pulse (Pw 1μs, Duty Cycle 1%, Pulse Rate 10KHz)
50ns Per Div. - Measured Value (60.00ns)

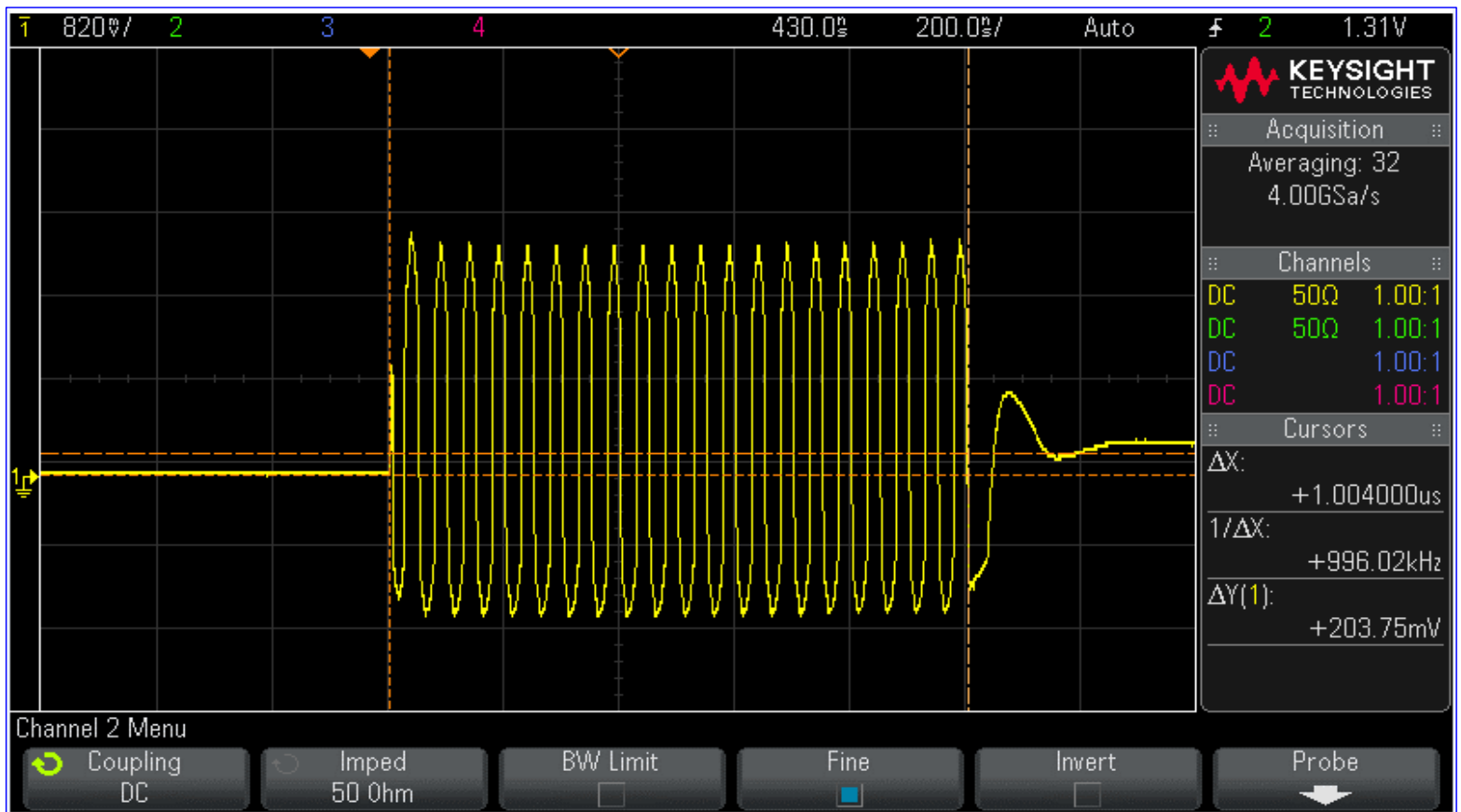


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Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

Full Pulse Peak Power +30dBm (1 Watt) @ 20MHz
Pulse (Pw 1μs, Duty Cycle 1%, Pulse Rate 10KHz)
200ns Per Div.

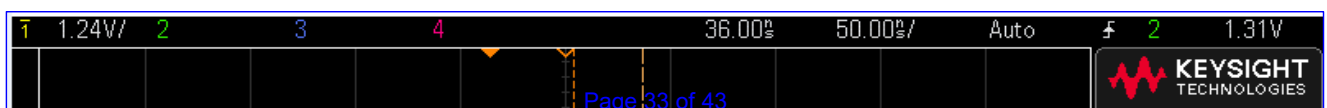


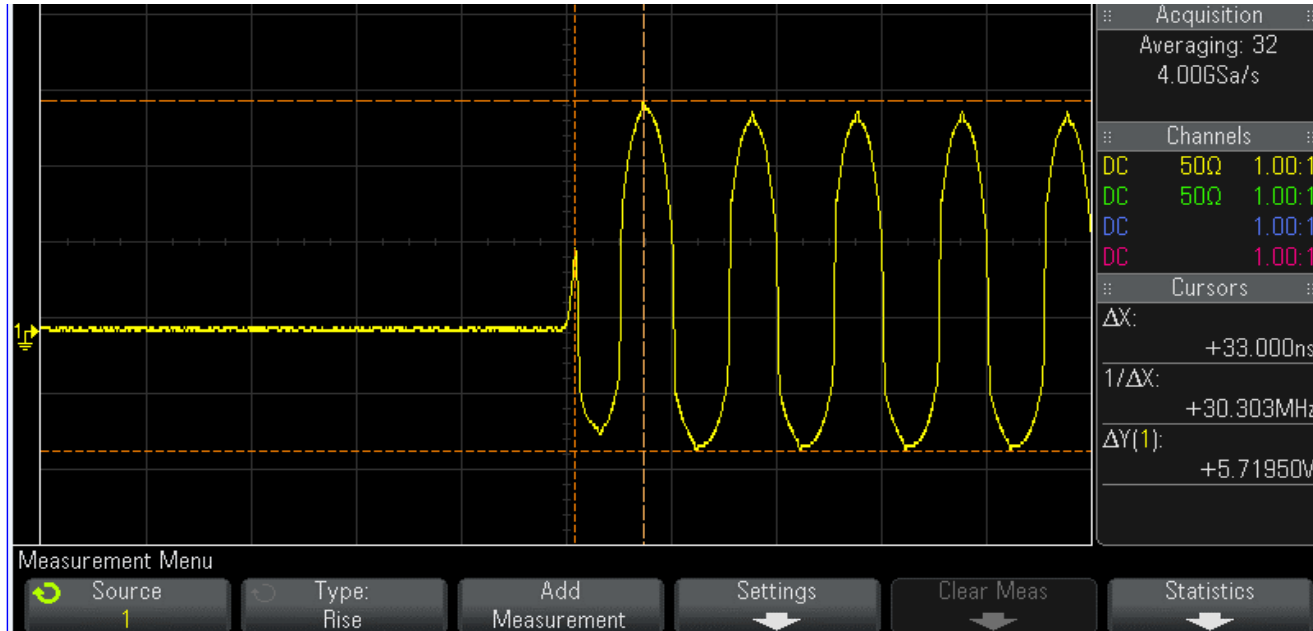
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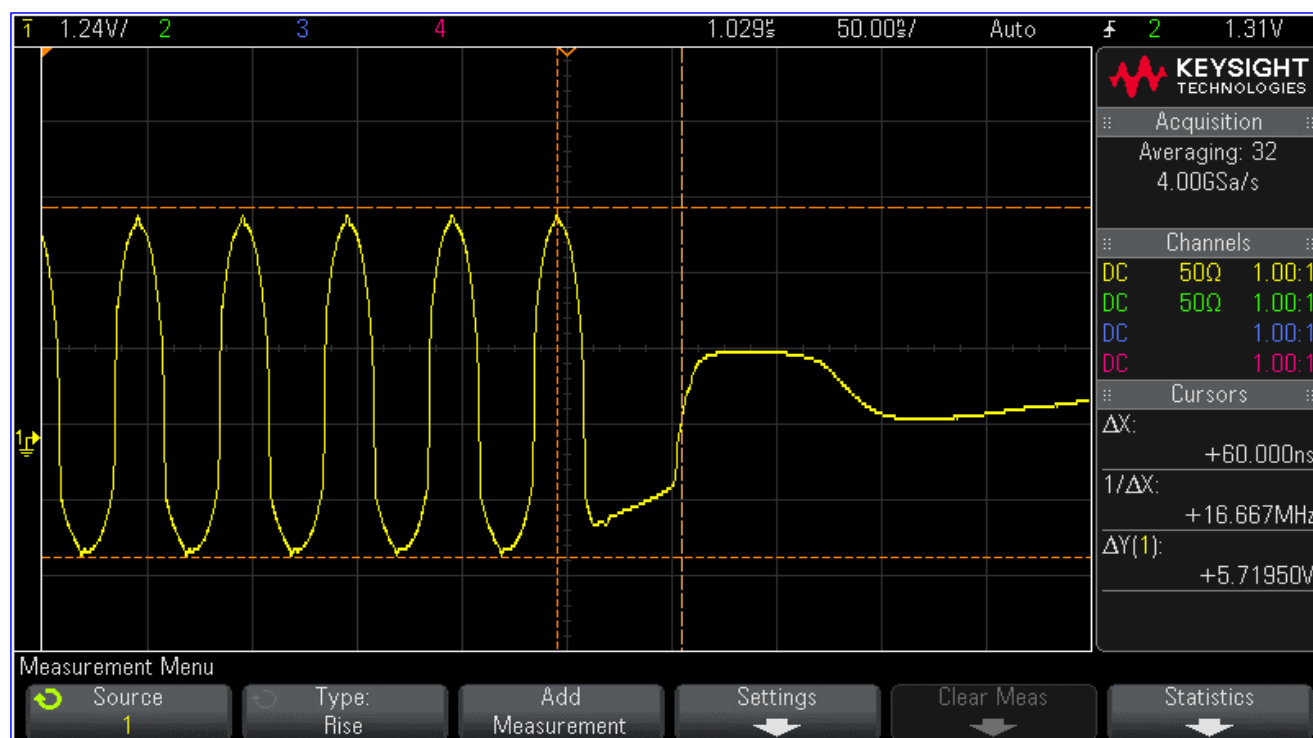
Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

Rise Time +44dBm (25 Watt) @ 20MHz
Pulse (Pw 1μs, Duty Cycle 1%, Pulse Rate 10KHz)
50ns Per Div. **Measured Value (33.0ns)**





Recovery Time +44dBm (25 Watt) @ 20MHz
Pulse (Pw 1μs, Duty Cycle 1%, Pulse Rate 10KHz)
50ns Per Div. - Measured Value (60.00ns)

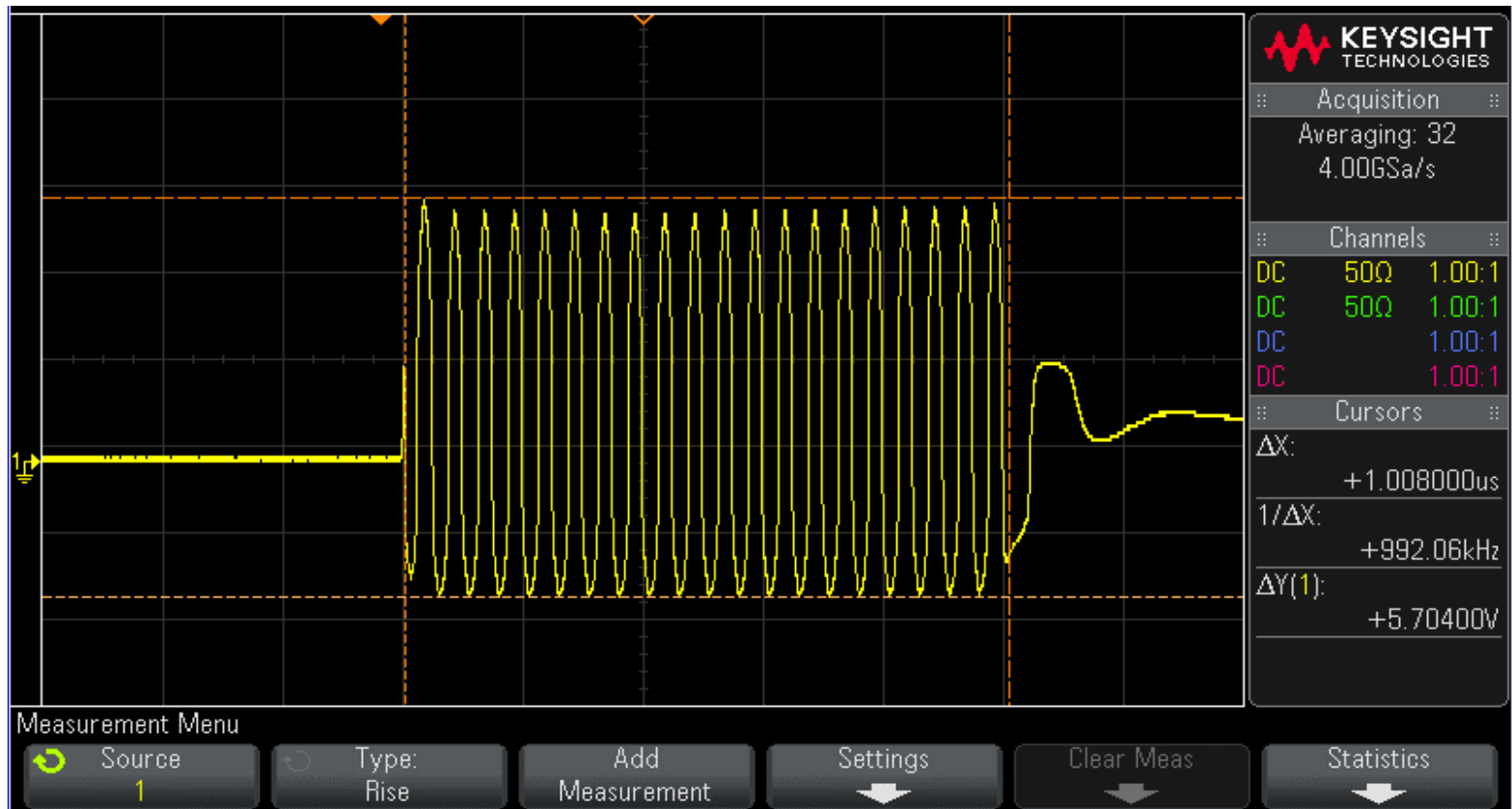


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Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

Full Pulse Peak Power +44dBm (25 Watt) @ 20MHz
Pulse (Pw 1μs, Duty Cycle 1%, Pulse Rate 10KHz)
200ns Per Div.

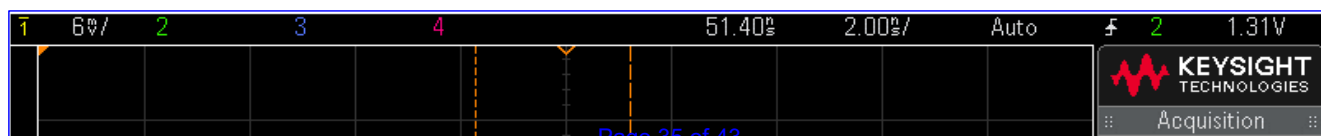


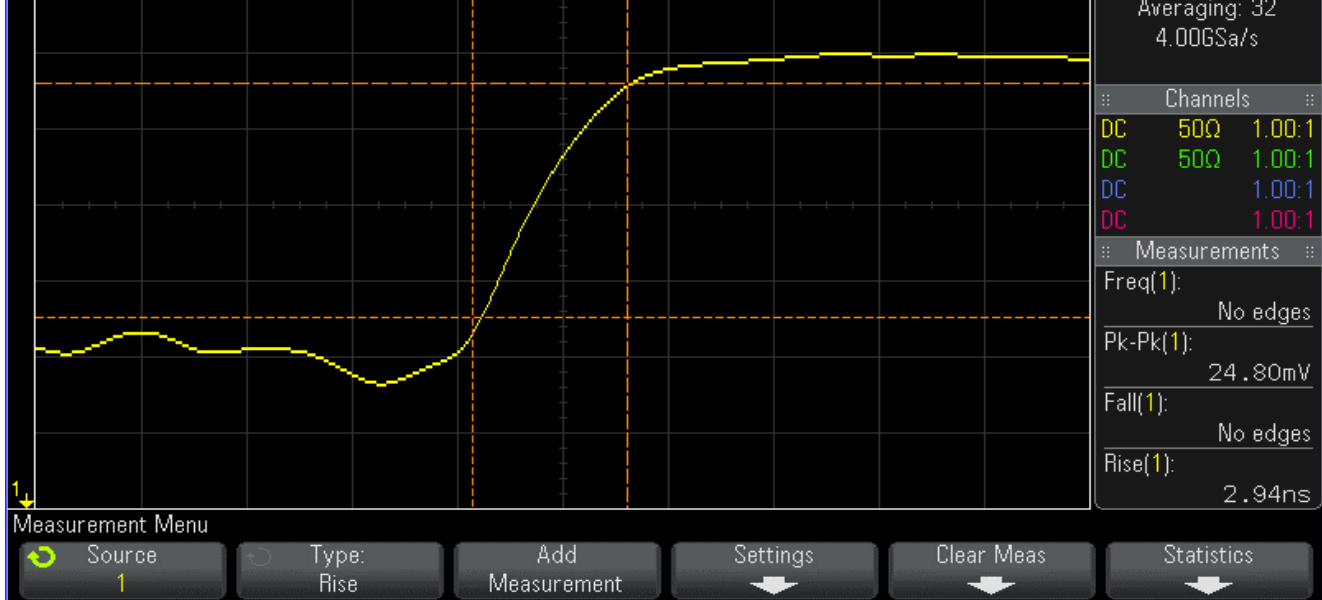
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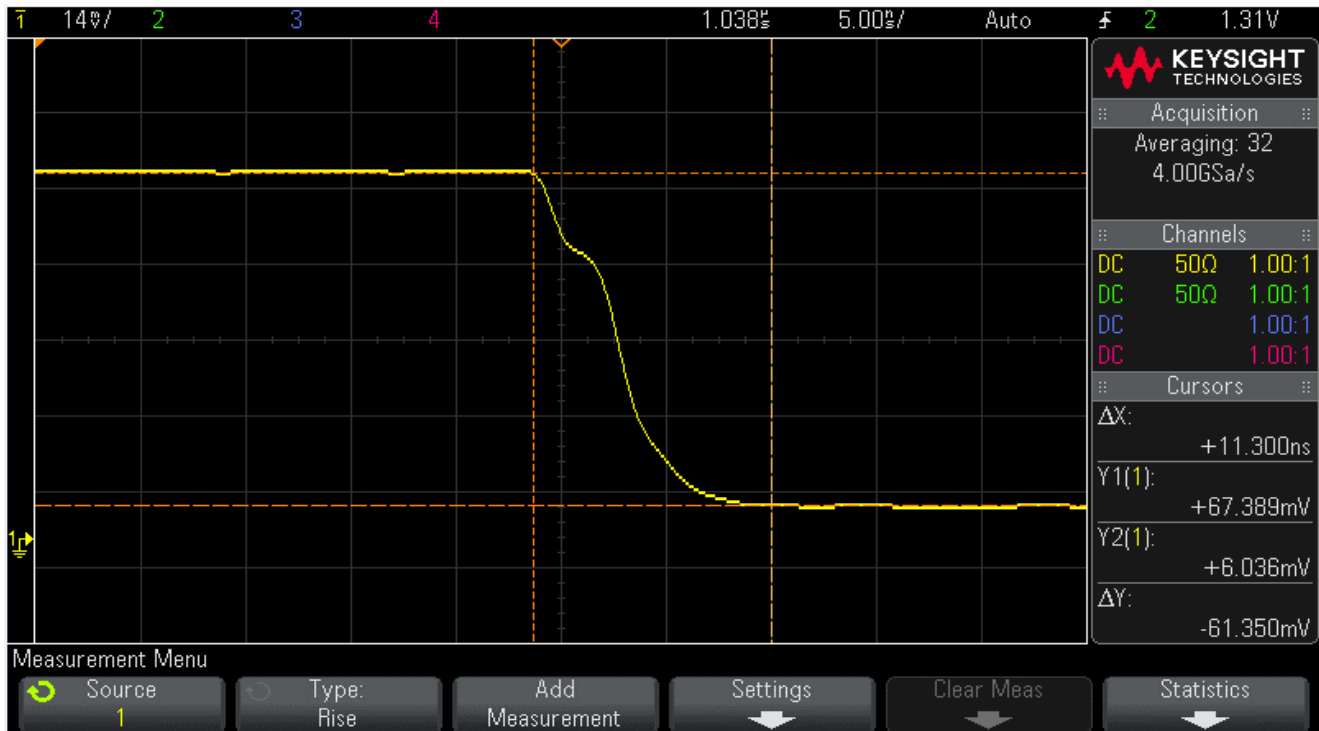
Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

Rise Time +30dBm (1 Watt) @ 8GHz
Pulse (Pw 1μs, Duty Cycle 1%, Pulse Rate 10KHz)
2ns Per Div. **Measured Value (2.94ns)**





Recovery Time +30dBm (1 Watt) @ 8GHz
Pulse (Pw 1μs, Duty Cycle 1%, Pulse Rate 10KHz)
5ns Per Div. - Measured Value (11.30ns)



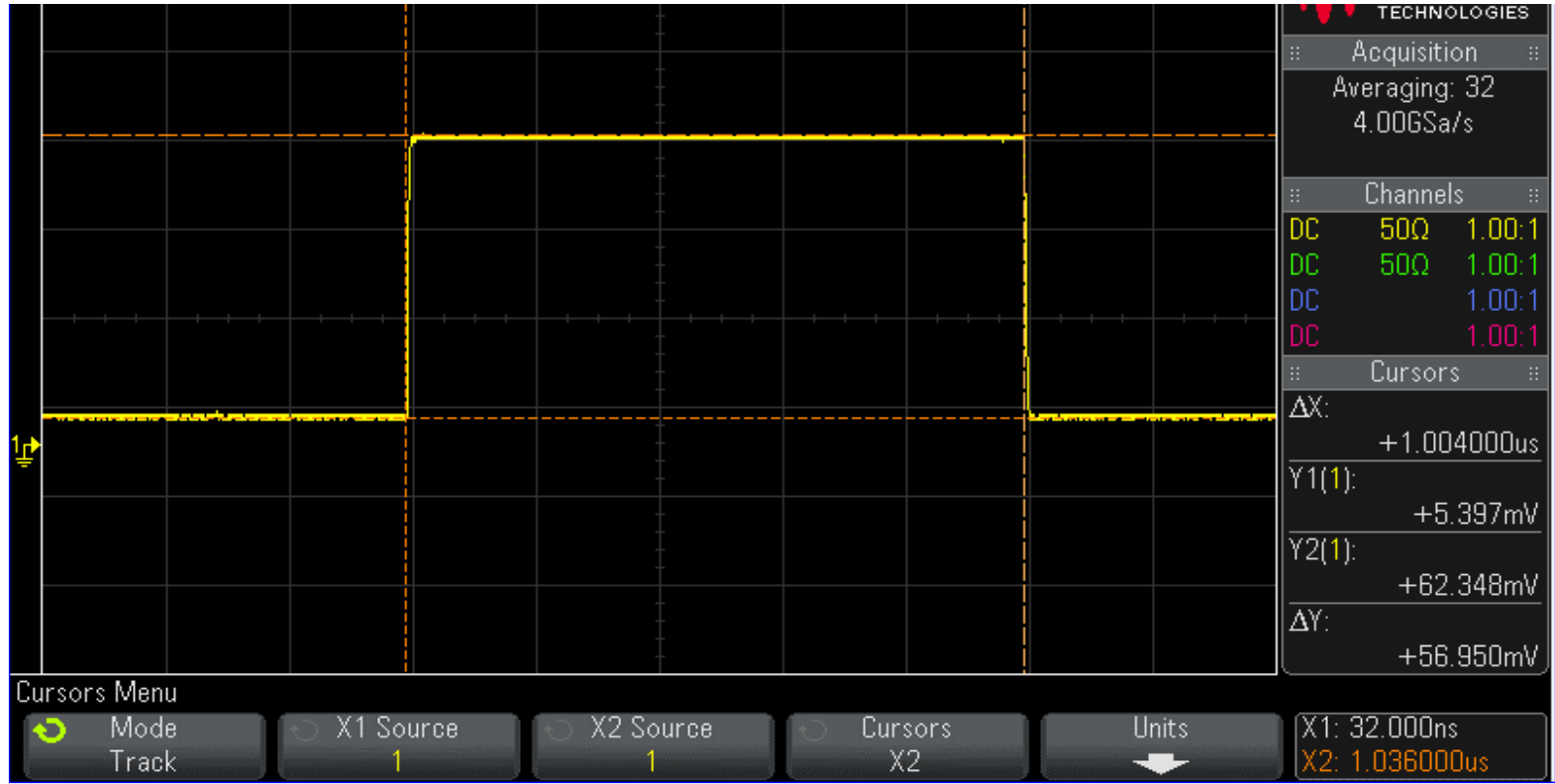
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Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

Full Pulse Peak Power +30dBm (1 Watt) @ 8GHz
Pulse (Pw 1μs, Duty Cycle 1%, Pulse Rate 10KHz)
200ns Per Div.





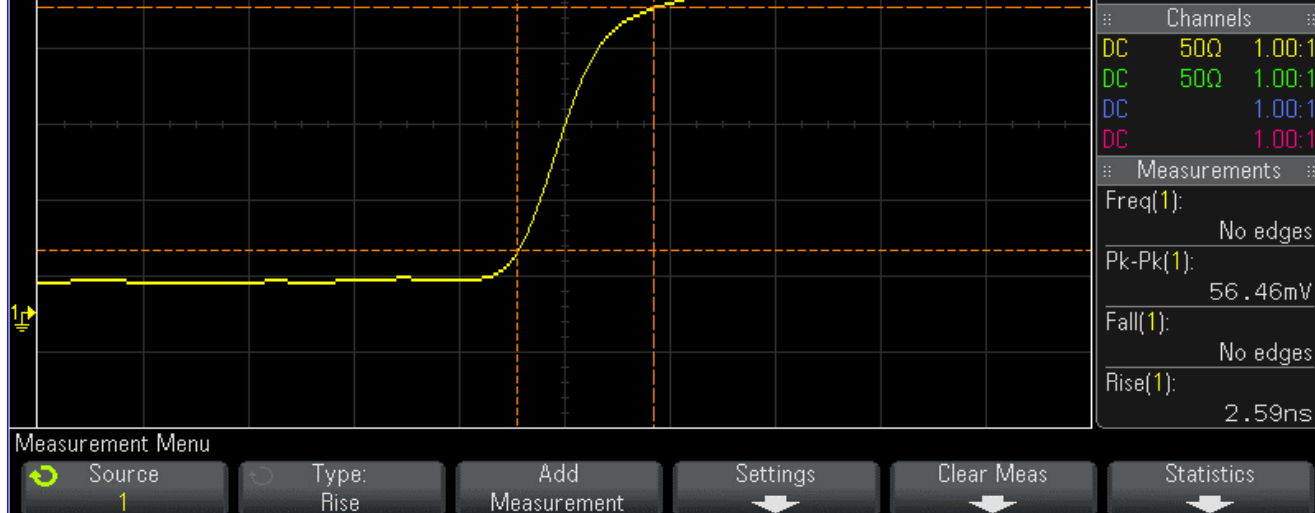
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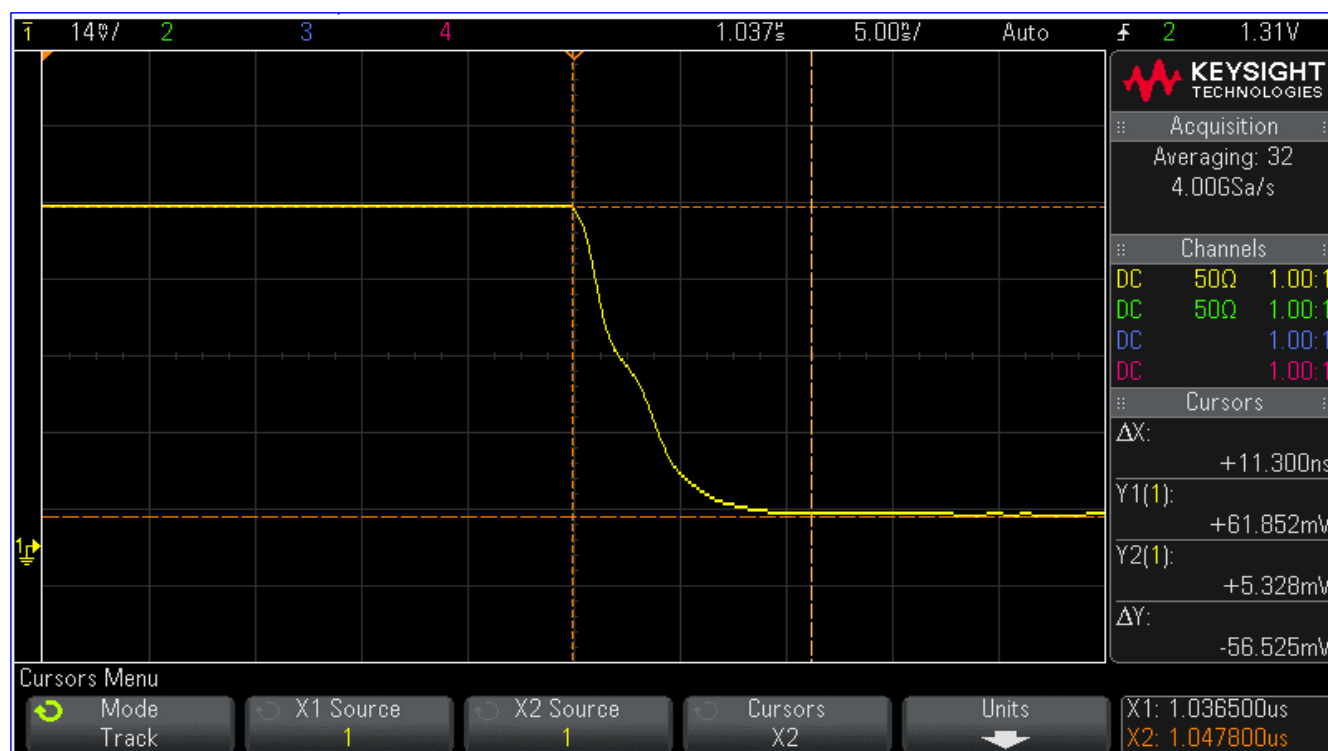
Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

Rise Time +44dBm (25 Watt) @ 8GHz
Pulse (Pw 1μs, Duty Cycle 1%, Pulse Rate 10KHz)
2ns Per Div. **Measured Value (2.59ns)**





Recovery Time +44dBm (25 Watt) @ 8GHz
Pulse (Pw 1μs, Duty Cycle 1%, Pulse Rate 10KHz)
5ns Per Div. - Measured Value (11.30ns)



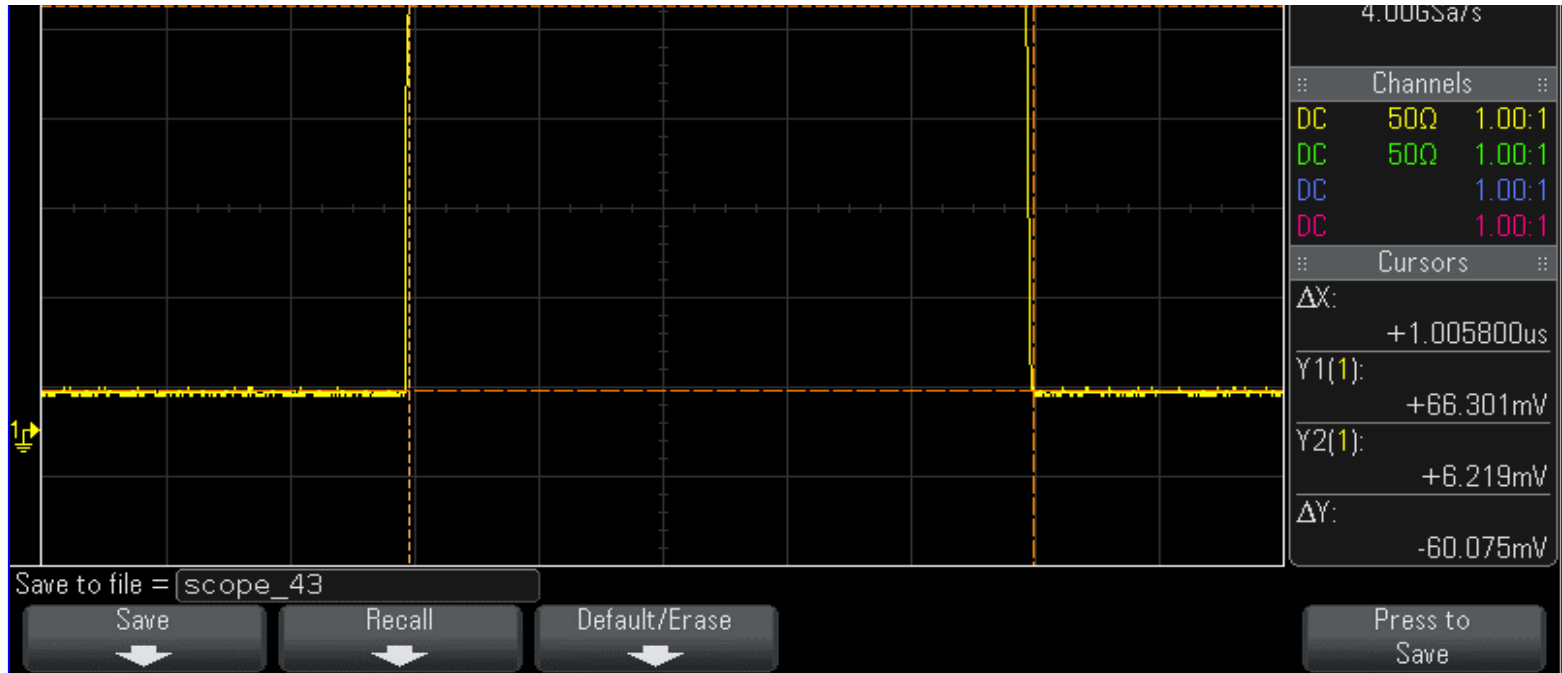
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Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

Full Pulse Peak Power +44dBm (25 Watt) @ 8GHz
Pulse (Pw 1μs, Duty Cycle 1%, Pulse Rate 10KHz)
200ns Per Div.



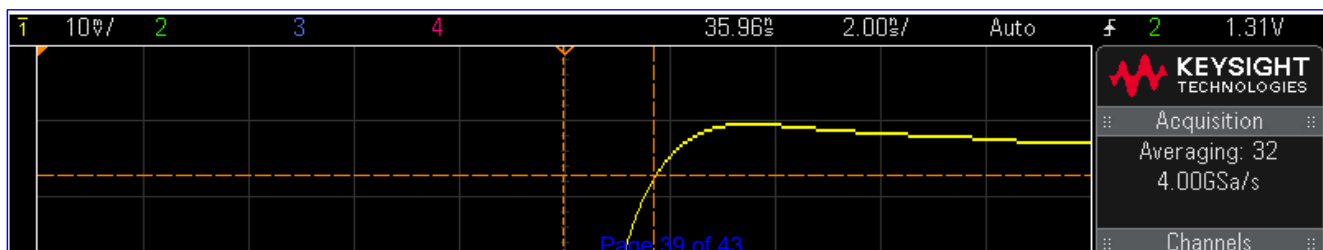


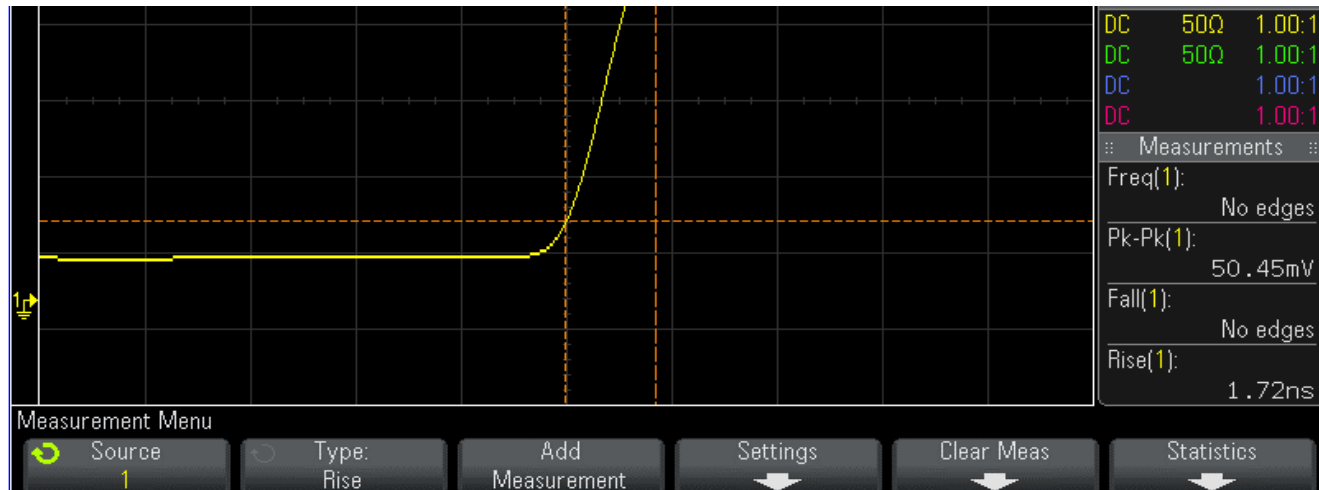
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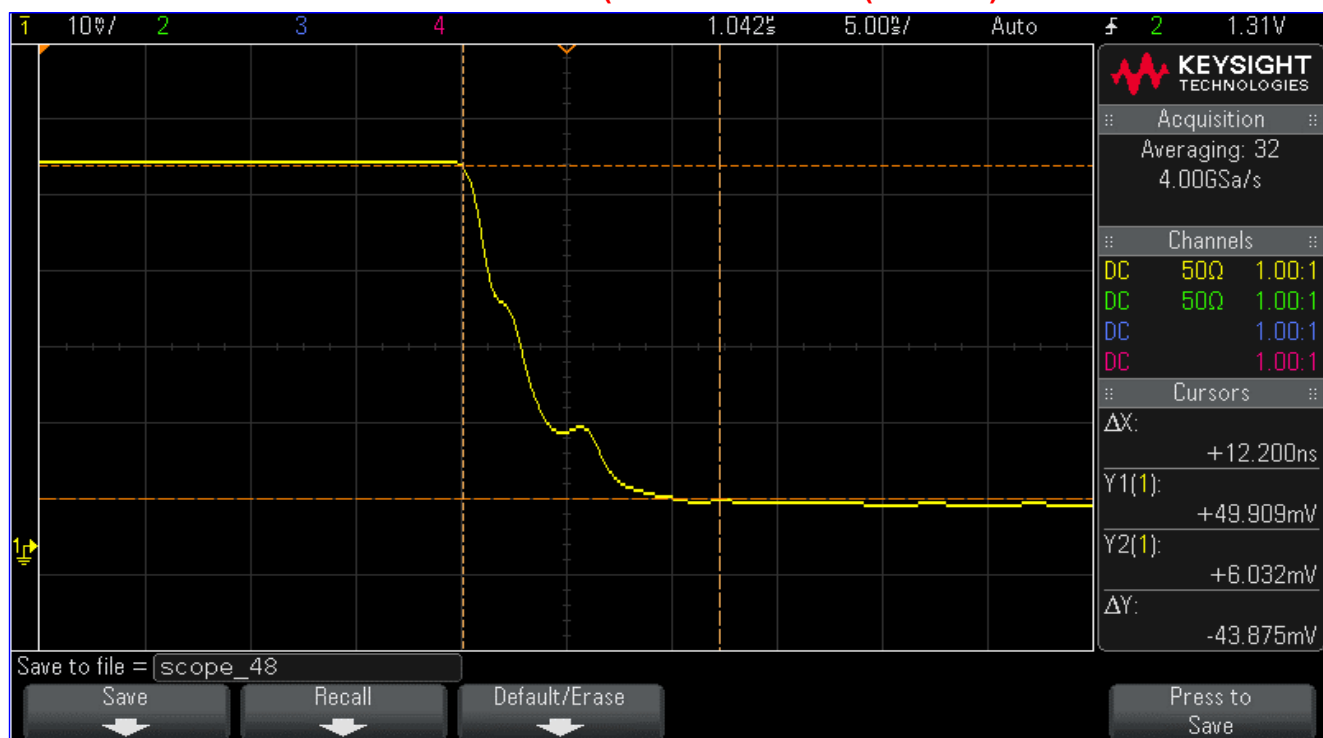
Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

Rise Time +30dBm (1 Watt) @ 18GHz
Pulse (Pw 1μs, Duty Cycle 1%, Pulse Rate 10KHz)
2ns Per Div. **Measured Value (1.72ns)**





Recovery Time +30dBm (1 Watt) @ 18GHz
Pulse (Pw 1μs, Duty Cycle 1%, Pulse Rate 10KHz)
5ns Per Div. - (Measured Value (12.20ns))



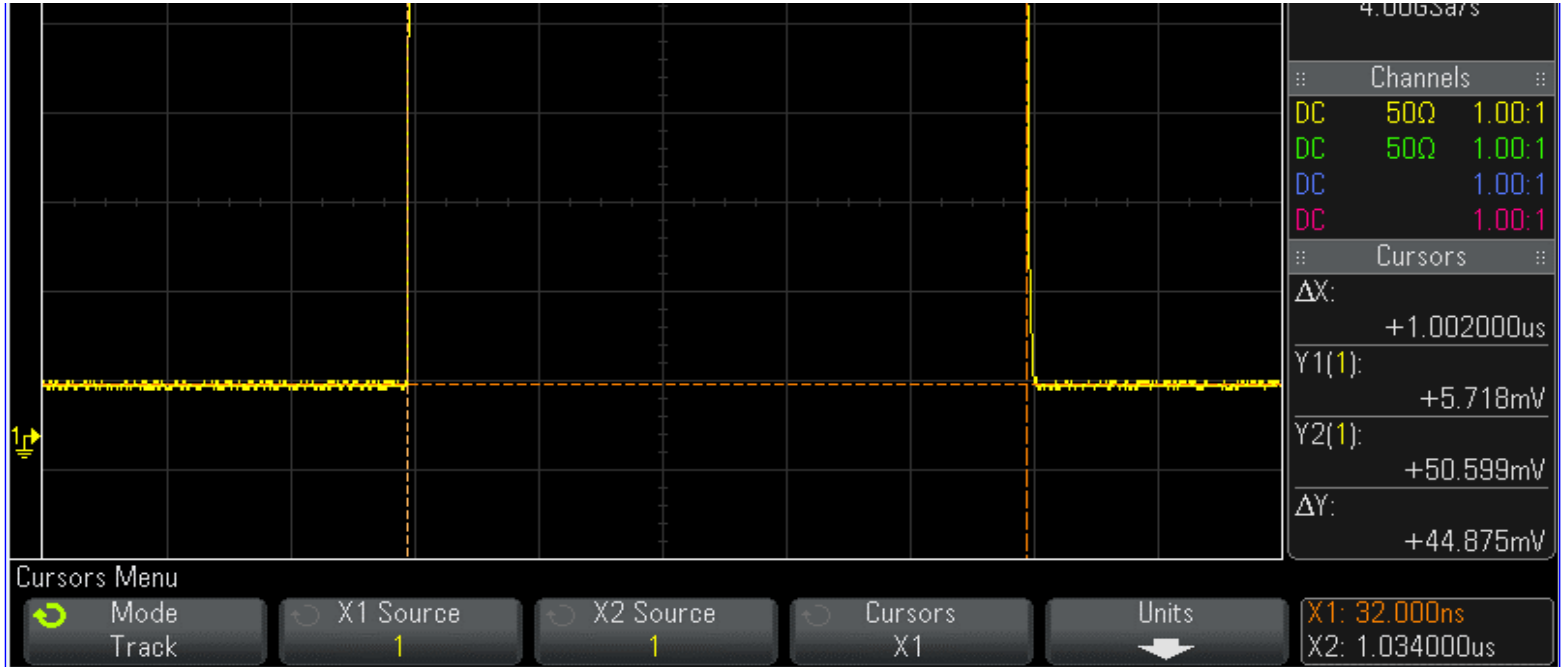
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Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

Full Pulse Peak Power +30dBm (1 Watt) @ 18GHz
Pulse (Pw 1μs, Duty Cycle 1%, Pulse Rate 10KHz)
200ns Per Div.



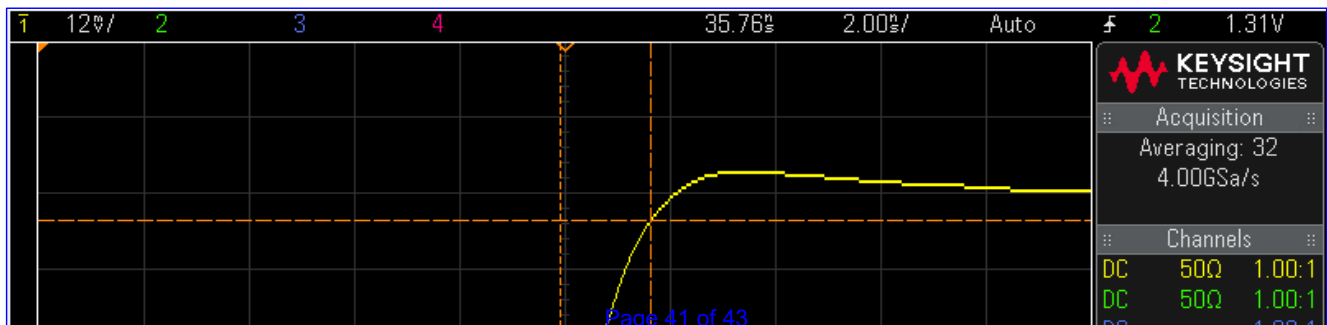


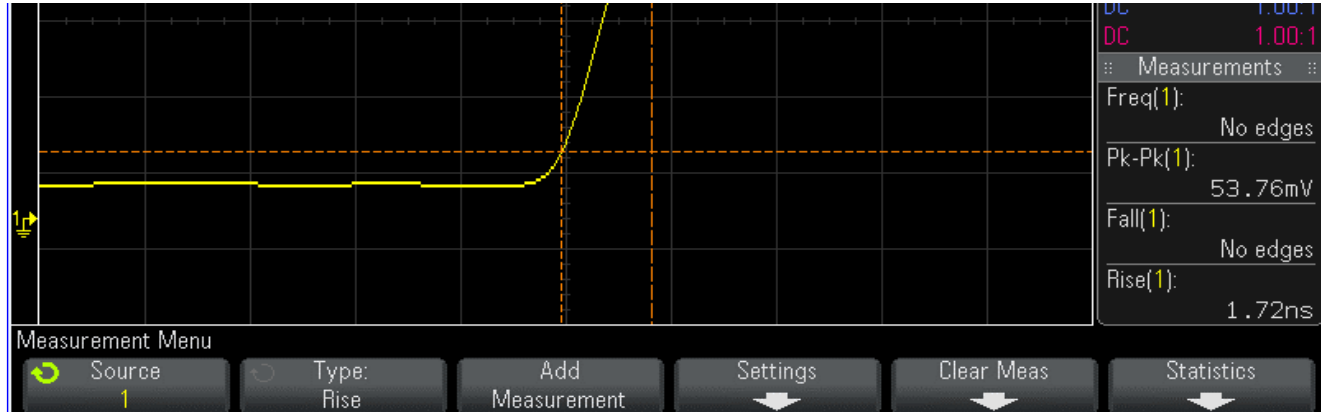
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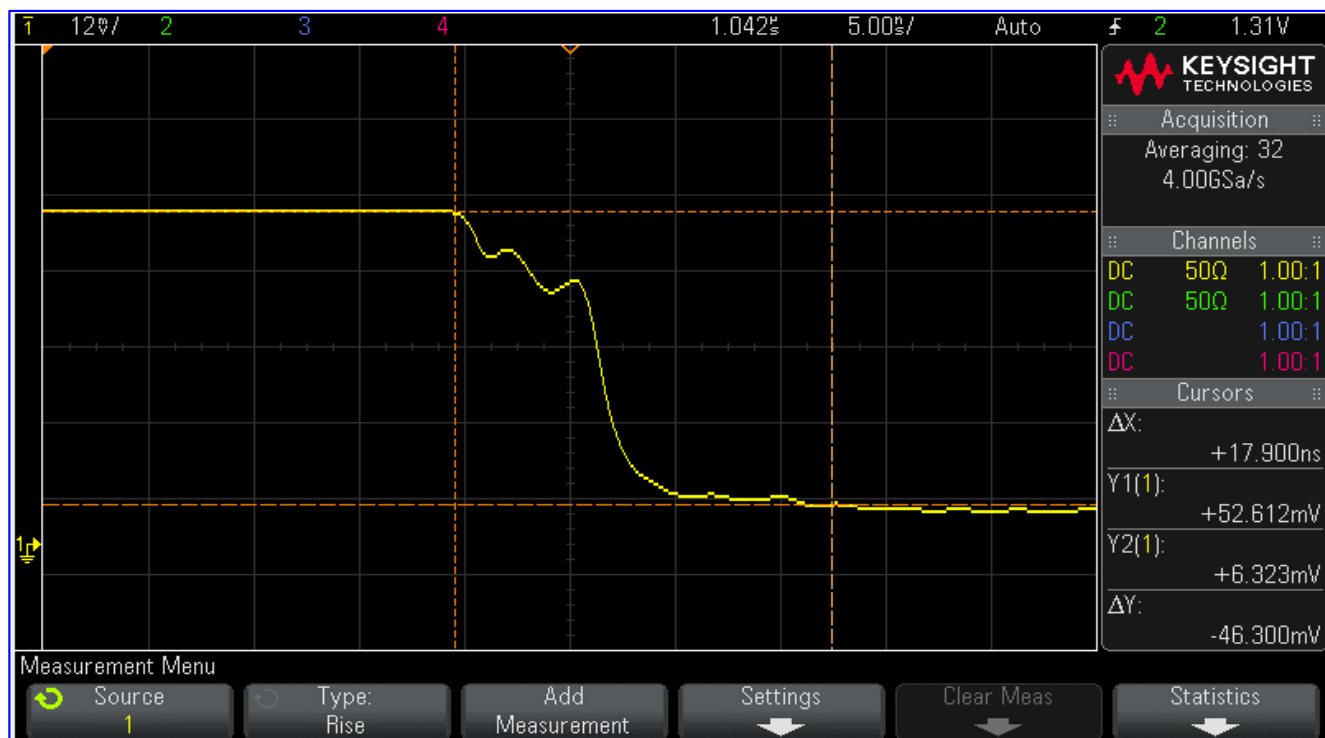
Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

Rise Time +43dBm (20 Watt) @ 18GHz
Pulse (Pw 1μs, Duty Cycle 1%, Pulse Rate 10KHz)
2ns Per Div. **Measured Value (1.72ns)**





Recovery Time +43dBm (20 Watt) @ 18GHz
Pulse (Pw 1μs, Duty Cycle 1%, Pulse Rate 10KHz)
5ns Per Div. - (Measured Value (17.90ns))



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Typical Characteristics ON LM-10M40G-15DBM-4W-AGAL

Full Pulse Peak Power +43dBm (20 Watt) @ 18GHz
Pulse (Pw 1μs, Duty Cycle 1%, Pulse Rate 10KHz)
200ns Per Div.

