

SUMMARY TEST DATA ON LM-1D2G1D4G-4KW-20DBM-SFM

Customer:
SO No:
Model No: **LM-1D2G1D4G-4KW-20DBM-SFM**
Serial No: **PL50875/2502**

Tested By: **A. Lopez**
Temperature: **+25°C, -40°C, +70°C**
Date: **1/8/2025**
Drawing No: **27647960** REV: **A1**

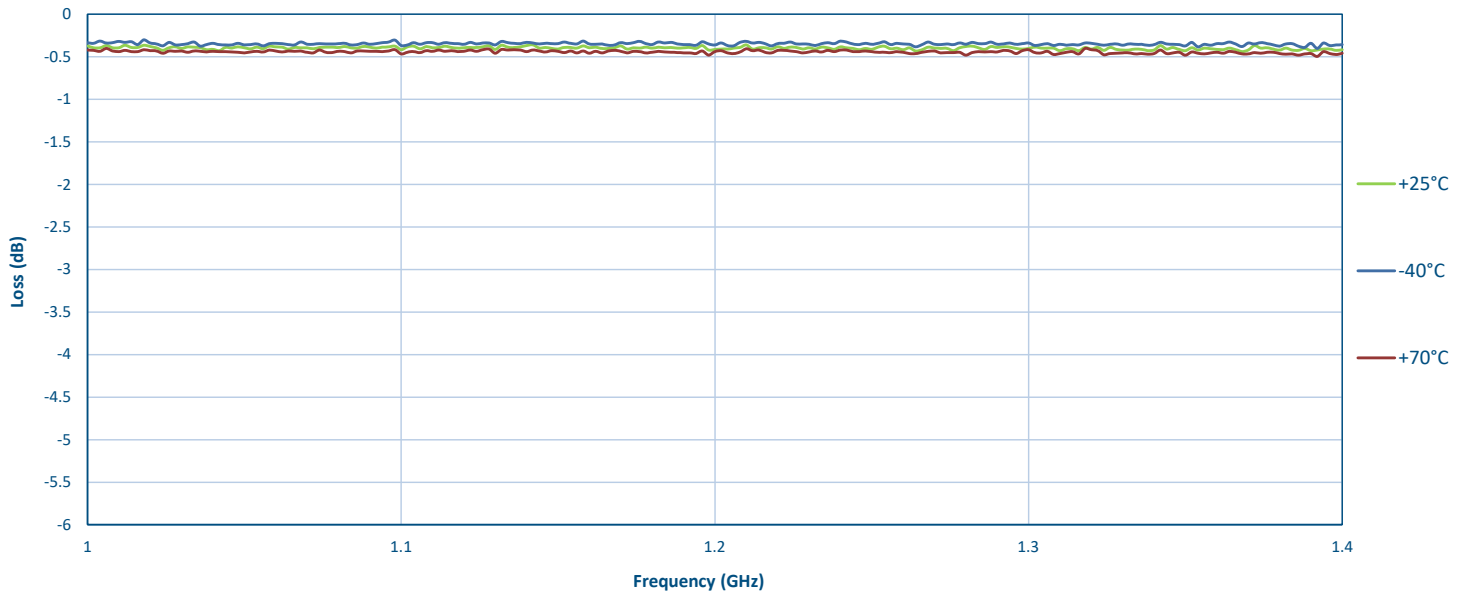
TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS			QA QC
			+25°C	-40°C	+70°C	
1	Frequency Range:	1.2 o 1.4 GHz	1.2 o 1.4 GHz	1.2 o 1.4 GHz	1.2 o 1.4 GHz	
2	Power Handling: (Normal Operating Condition)	10 W Peak Max. (1 ms PW, 36% Duty Cycle)	Pass 10 Watts CW See Graph	Pass 10 Watts CW See Graph	Pass 10 Watts CW See Graph	
3	Power Handling: (Overload Operating Condition)	4 kW Peak Max. (40 µs PW, 1% Duty Cycle)	Tested 1kW Peak 160 µs PW, 1% DC @ 2.4 GHz (User will validate 4kW Peak)	Tested 1kW Peak 160 µs PW, 1% DC @ 2.4 GHz (User will validate 4kW Peak)	Tested 1kW Peak 160 µs PW, 1% DC @ 2.4 GHz (User will validate 4kW Peak)	
4	Input RF Rise Time:	100 ns Min.	< 10 ns	< 10 ns	< 10 ns	
5	Insertion Loss: Input/Output	0.5 dB Max. (-40 to +55°C) 0.6 dB Max. (+55 to +75°C)	0.44 dB See Graph	0.4 dB See Graph	0.49 dB See Graph	
6	Return Loss: Input/Out	19.5 dB In Min. (-40 to +55°C) 16.0 dB Out Min. (+55 to +75°C)	20.76 dB Input	21.51 dB Input	19.98 dB Input	
			23.85 dB Output	24.85 dB Output	23.03 dB Output	
			See Graph	See Graph	See Graph	
7	Spike Leakage Power:	23 dBm Max.	17.71 dBm See Graph	17.77 dBm See Graph	17.54 dBm See Graph	
8	Flat Leakage Power:	20 dBm Max.	15.41 dBm See Graph	15.61 dBm See Graph	15.42 dBm See Graph	
9	Recovery Time:	15 µs Max.	<15 µs See Plot	<15 µs See Plot	<15 µs See Plot	

QA/QC Approval: _____

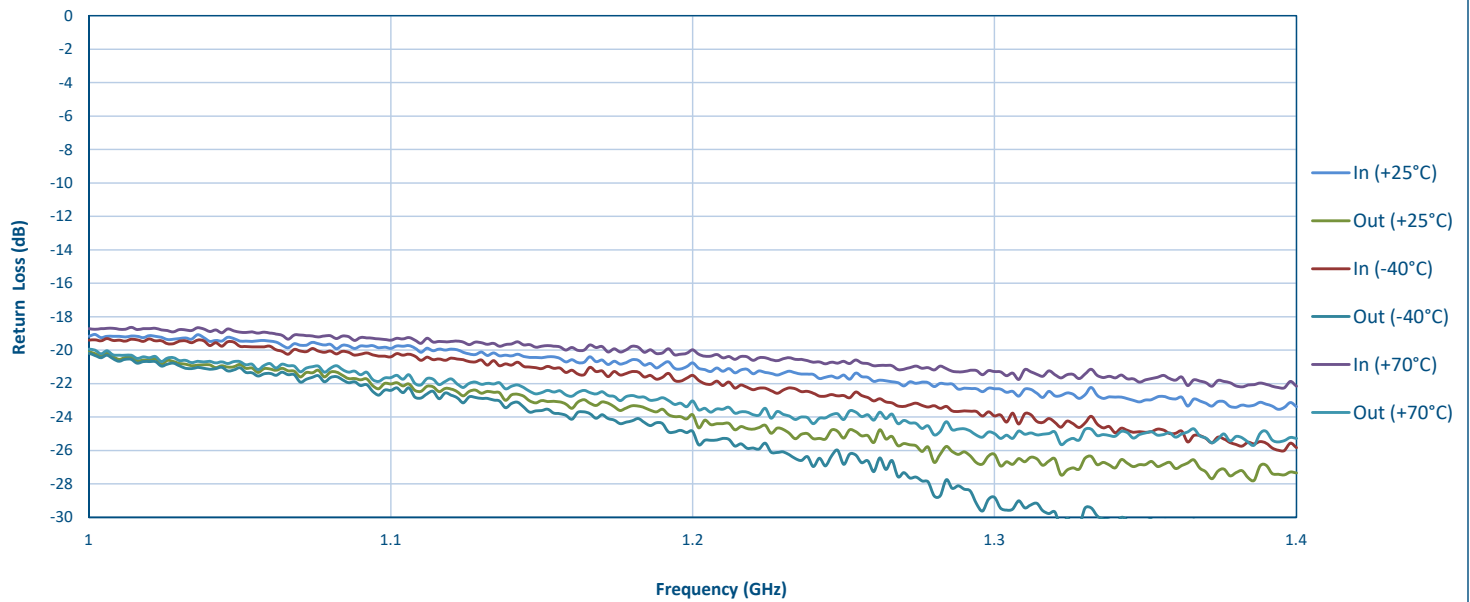
Date: _____

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Insertion Loss

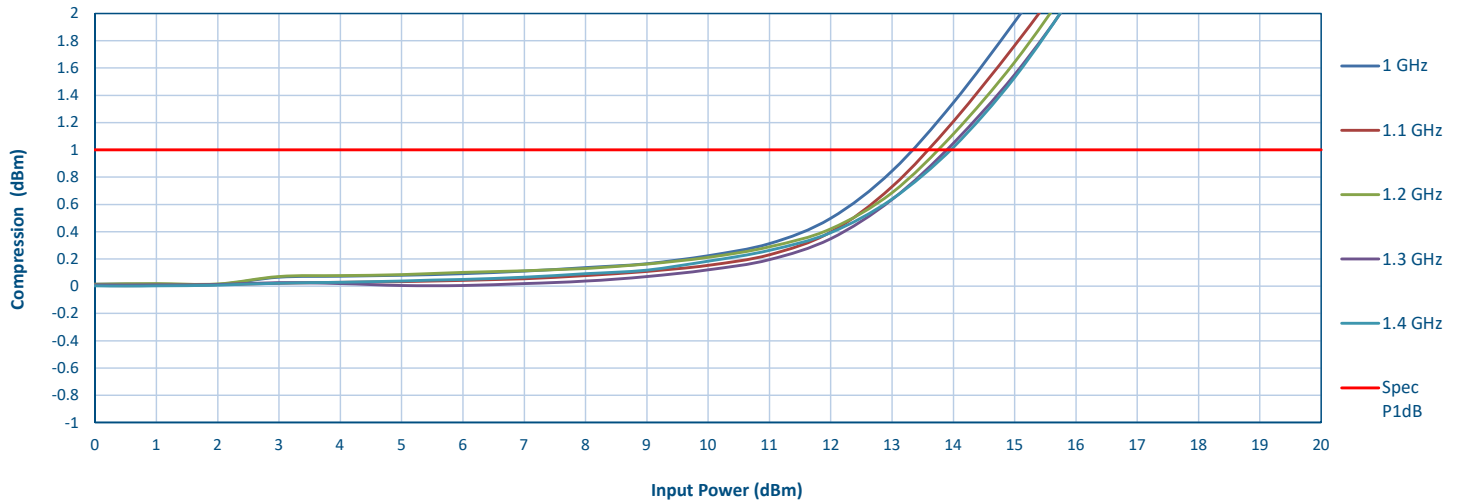


Return Loss

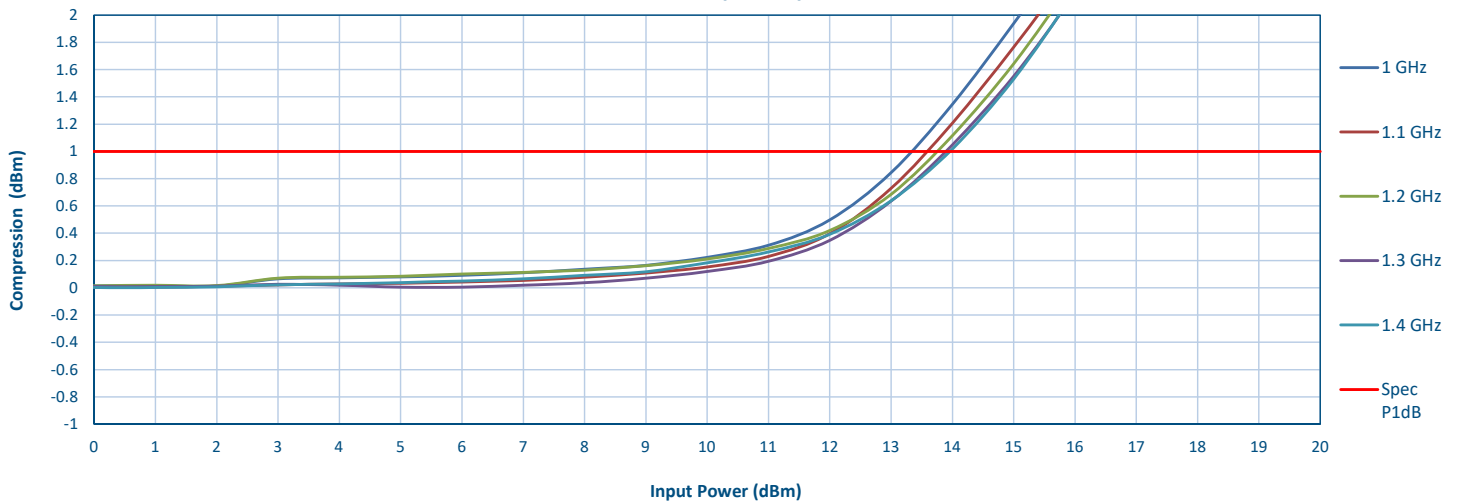


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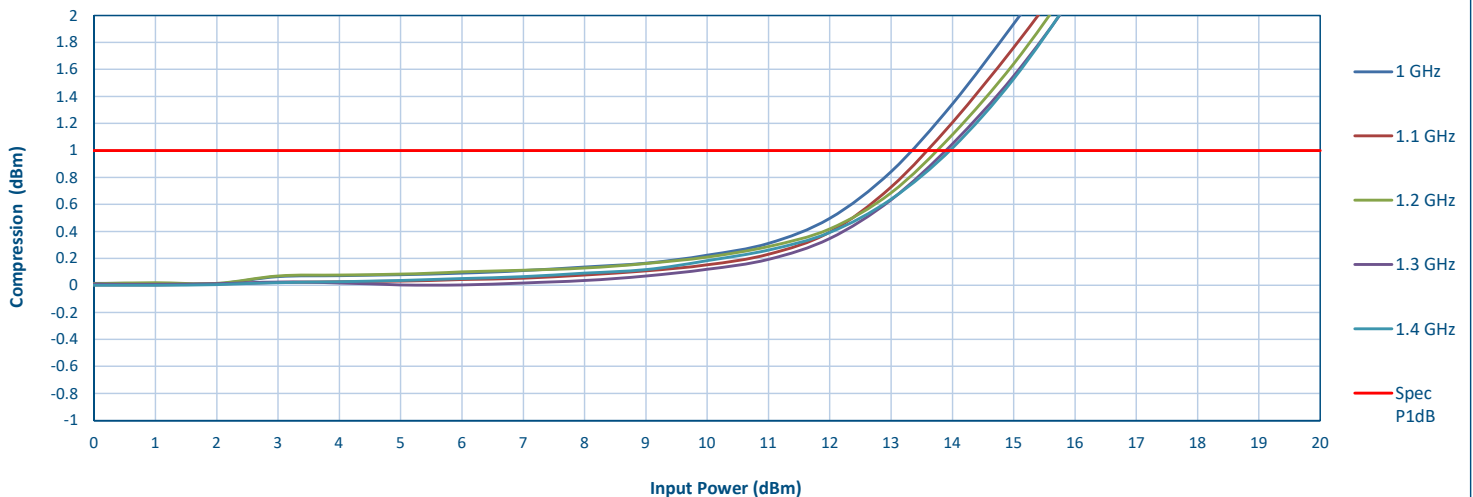
P1dB (+25°C)



P1dB (-40°C)

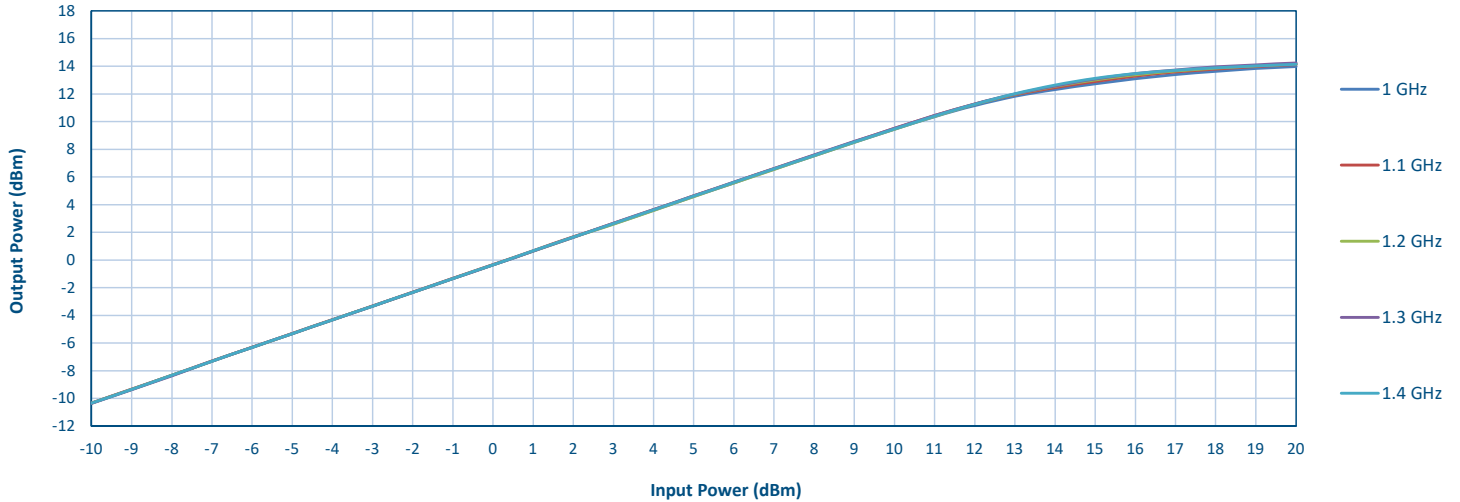


P1dB (+70°C)

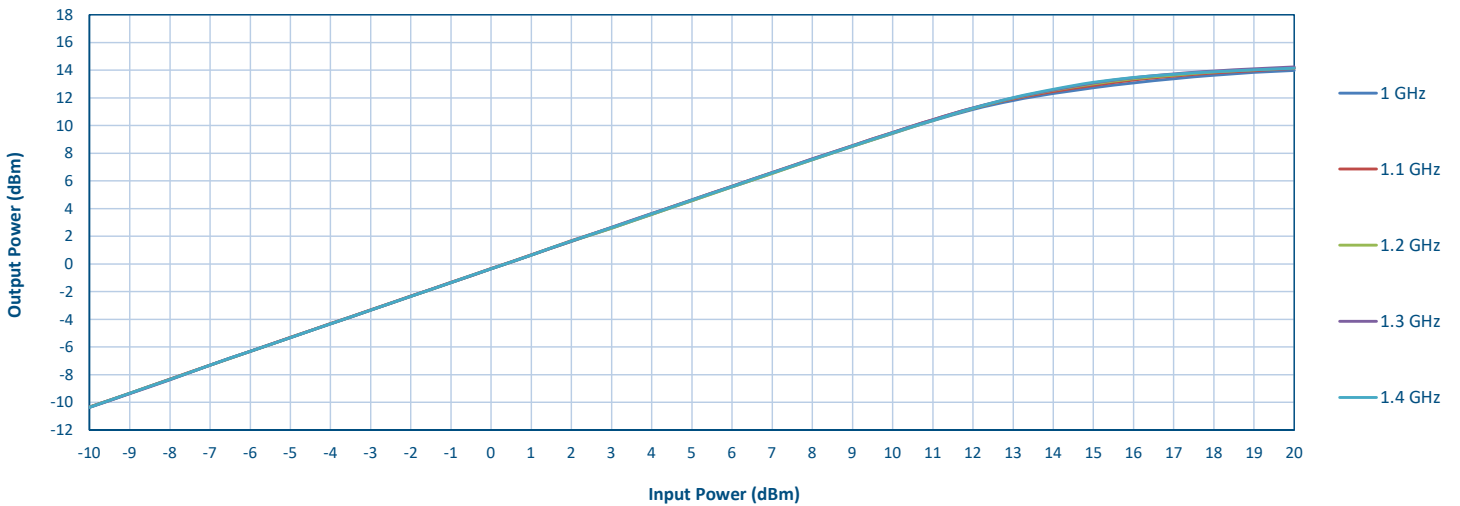


SUMMARY TEST DATA ON LM-1D2G1D4G-4KW-20DBM-SFM

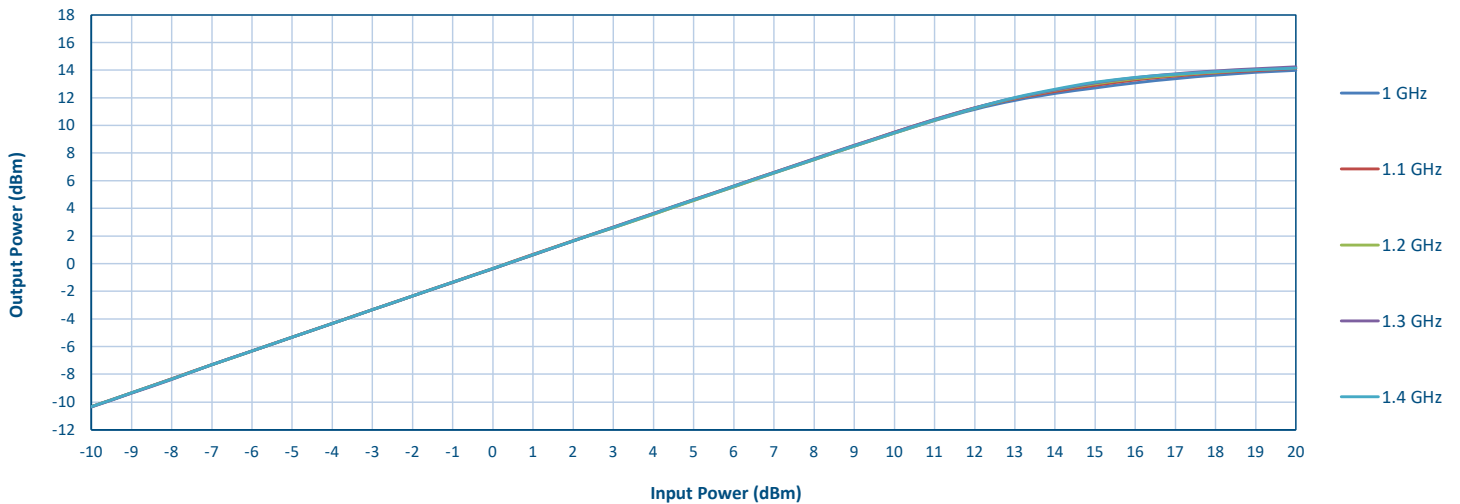
Response Limiting Curve (+25°C)



Response Limiting Curve (-40°C)



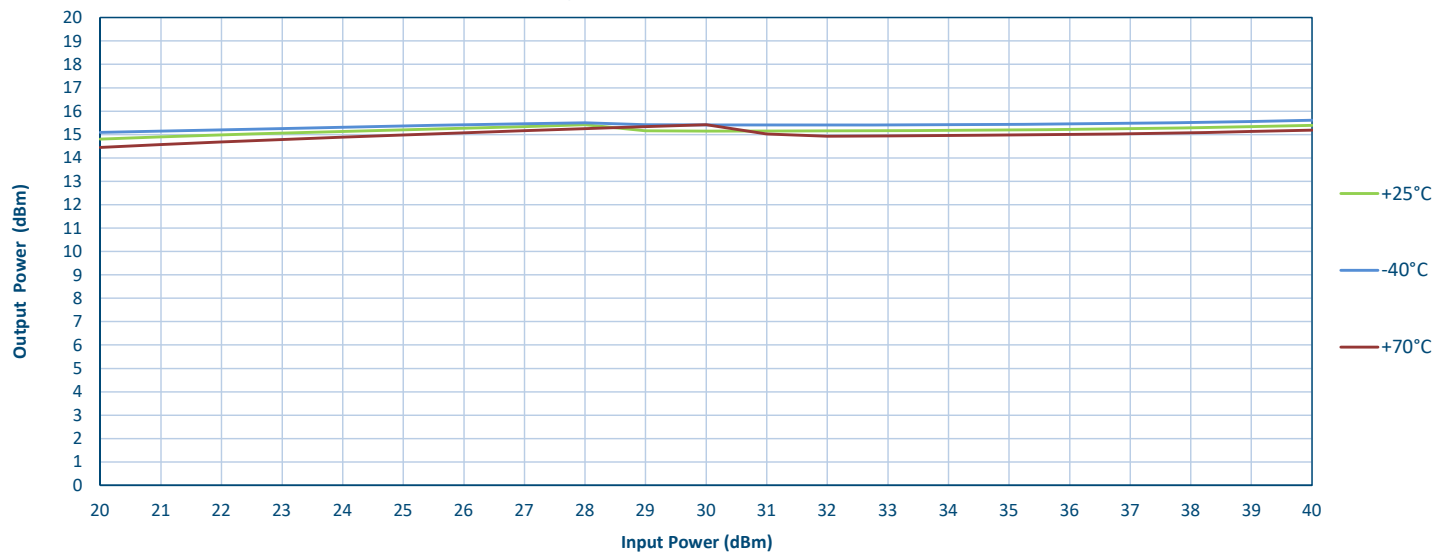
Response Limiting Curve (+70°C)



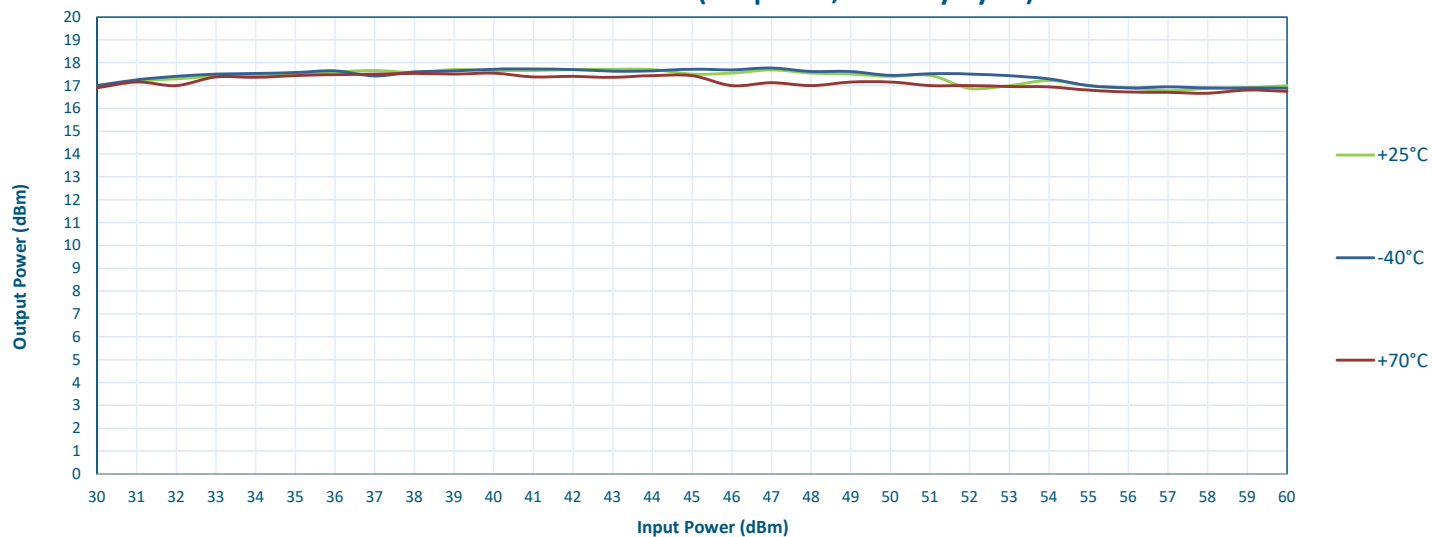


SUMMARY TEST DATA ON LM-1D2G1D4G-4KW-20DBM-SFM

High Power Test CW (1.4 GHz)



Peak Power Test 2.4 GHz (160μs PW, 1% Duty Cycle)

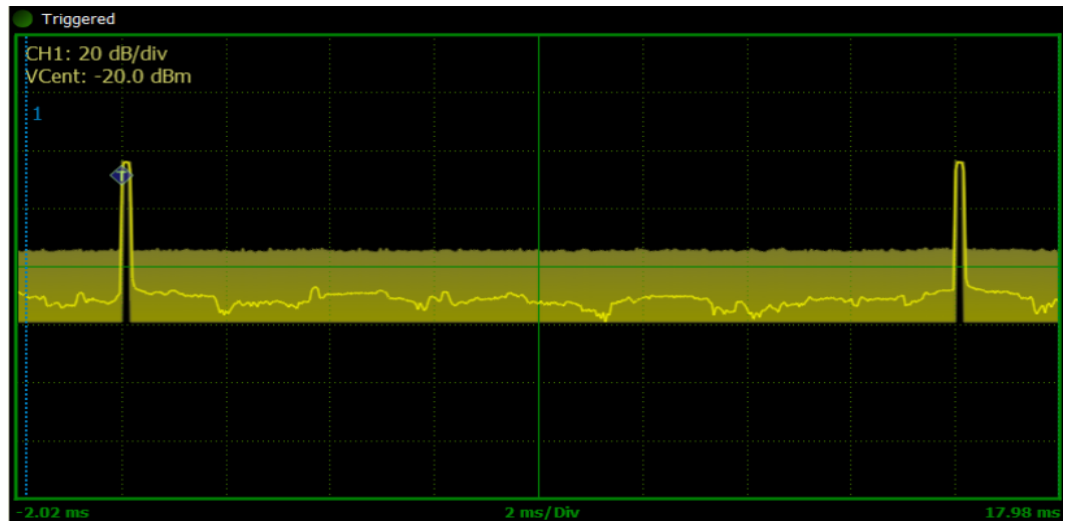
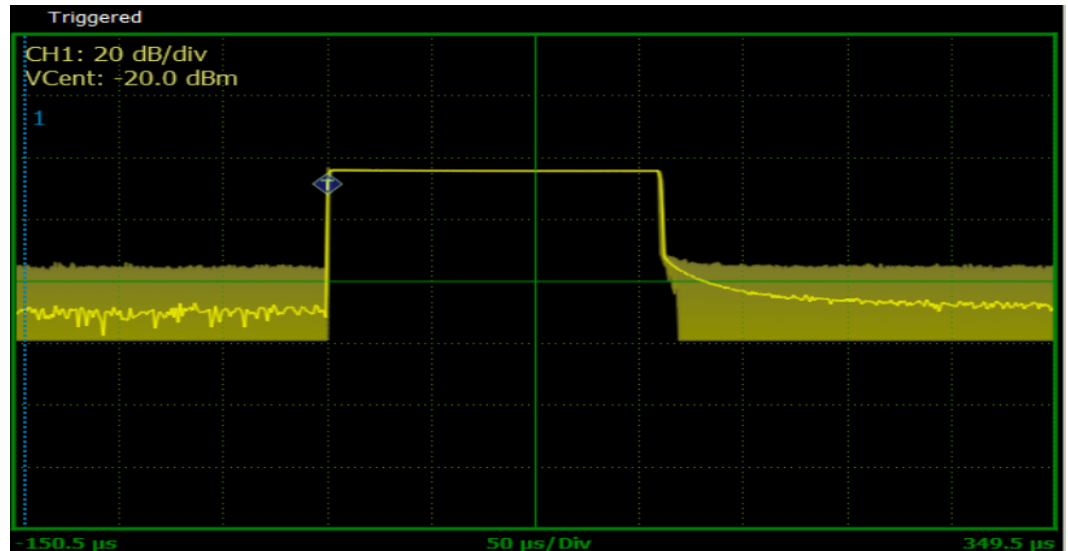




PL50875/2502

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Full Pulses
1kW Peak, 160 μ s PW, 1% Duty Cycle
Frequency 2.4 GHz



Automatic Measurements	
Pulse Def...	
Parameter	CH1
Width	162.44 μ s
WavAv	-3.885 dBm
Top	15.987 dBm
Skew	0.00 ns
Rise	-.--- s
PulsPk	16.455 dBm
PulsAv	15.487 dBm
PRF	62.501 Hz
Period	16.000 ms
OvrSht	0.130 dB
Offtime	15.837 ms
Fall	-.--- s
EdgDly	-23.300 μ s
Duty	1.015 %
Droop	-.--- dB
Bottom	-28.373 dBm