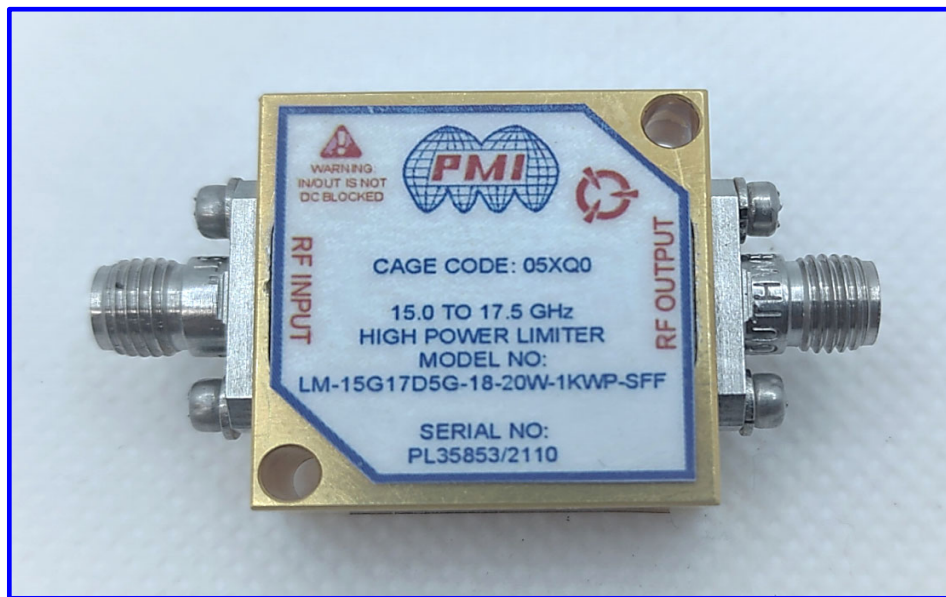




Typical Characteristics ON LM-15G17D5G-18-20W-1KWP-SFF

PMI MODEL: LM-15G17D5G-18-20W-1KWP-SFF IS A HIGH POWER LIMITER THAT OPERATES OVER THE 15.0 TO 17.5 GHz FREQUENCY RANGE. THIS MODEL IS CAPABLE OF HANDLING AN INPUT POWER OF 20 WATTS CW & 1000 WATTS PEAK, HOUSED WITHIN A COMPACT 1.00" x 1.00" x 0.40" PACKAGE OUTFITTED WITH FIELD REPLACEABLE SMA FEMALE CONNECTORS.



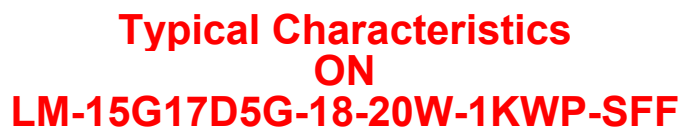
March 14, 2022

Designed By:

PMI Engineering

Tested and Reported By:

Alfredo Lopez



DESCRIPTION

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	12/9/21	
	A2	ECN # 22-0035	8/15/22	

SPECIFICATIONS

- *NO DC BLOCKS ARE USED IN INSIDE THIS LIMITER



- TEMPERATURE: _____ -40 °C TO +85 °C (OPERATING)
-55 °C TO +85 °C (NON-OPERATING)

ALL DIMENSIONS
ARE IN INCH [mm]
TOLERANCES:
X.XX ± 0.020 [0.508]
X.XXX ± 0.005 [0.254]

PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD

FREDERICK, MARYLAND 21704 USA

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

TEL: (301)-662-5019, FAX: (301)-662-1731
WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com

ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
			PRODUCT FEATURE			
			LM-15G17D5G-18-20W-1KWP-SFF			
DRAWN			15.0 TO 17.5 GHZ HIGH POWER LIMITER			
SPH		6/18/21				
REDRAWN			SEC	FCOM NO.	DWG NO.	REV
			A	05XQ0	27043040	A2
ISSUED			SCALE	N-S	SHEET	1 OF 1



Typical Characteristics ON LM-15G17D5G-18-20W-1KWP-SFF

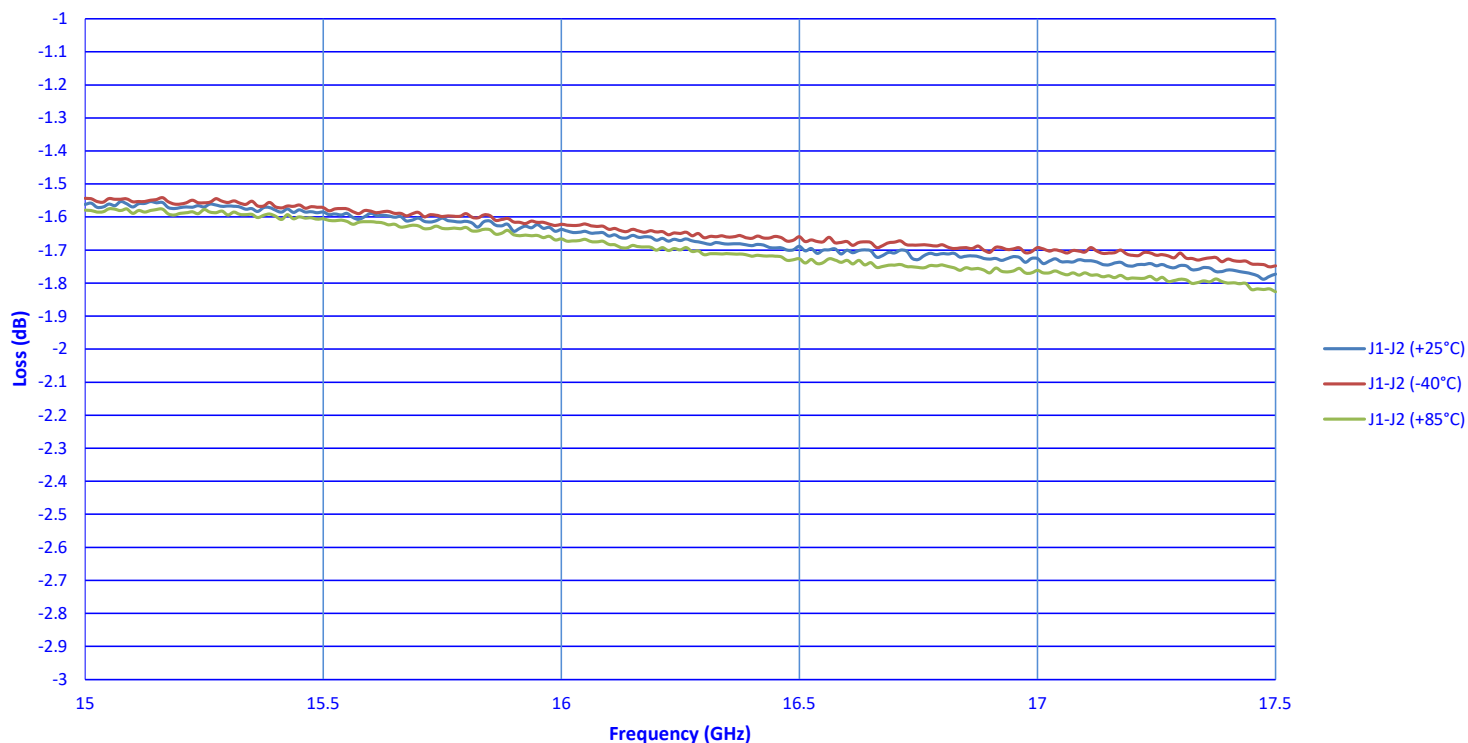
Technical Specifications

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results			QA QC
			+25°C	-40°C	+85°C	
1	Frequency Range:	15.0 to 17.5 GHz	15.0 to 17.5 GHz	15.0 to 17.5 GHz	15.0 to 17.5 GHz	
2	RF Input Power:	+43 dBm CW Max.	Pass See Graph	Pass See Graph	Pass See Graph	
3	Peak Input Power:	+50 dBm 20% DC, 100us PW Max.	Pass See Graph	Pass See Graph	Pass See Graph	
4	Limiting Threshold (P1dB):	+5 dBm Min.	+5 dBm See Graph	+6 dBm See Graph	+5 dBm See Graph	
5	RF Leakage(Flat & Spike)	+16 dBm Max.	11.86 dBm See Graph	11.86 dBm See Graph	11.86 dBm See Graph	
6	Recovery Time:	100 ns Max.	9.84 ns See Plot	9.84 ns See Plot	9.84 ns See Plot	
7	Insertion Loss @ -10 dBm Input Power	1.9 dB Max. @ Room Temp	1.79 dB See Graph	1.75 dB See Graph	1.83 dB See Graph	
8	VSWR @ -10 dBm Input Power	1.5:1 Max. (Input/Output)	1.21 :1 See Graph	1.21 :1 See Graph	1.22 :1 See Graph	

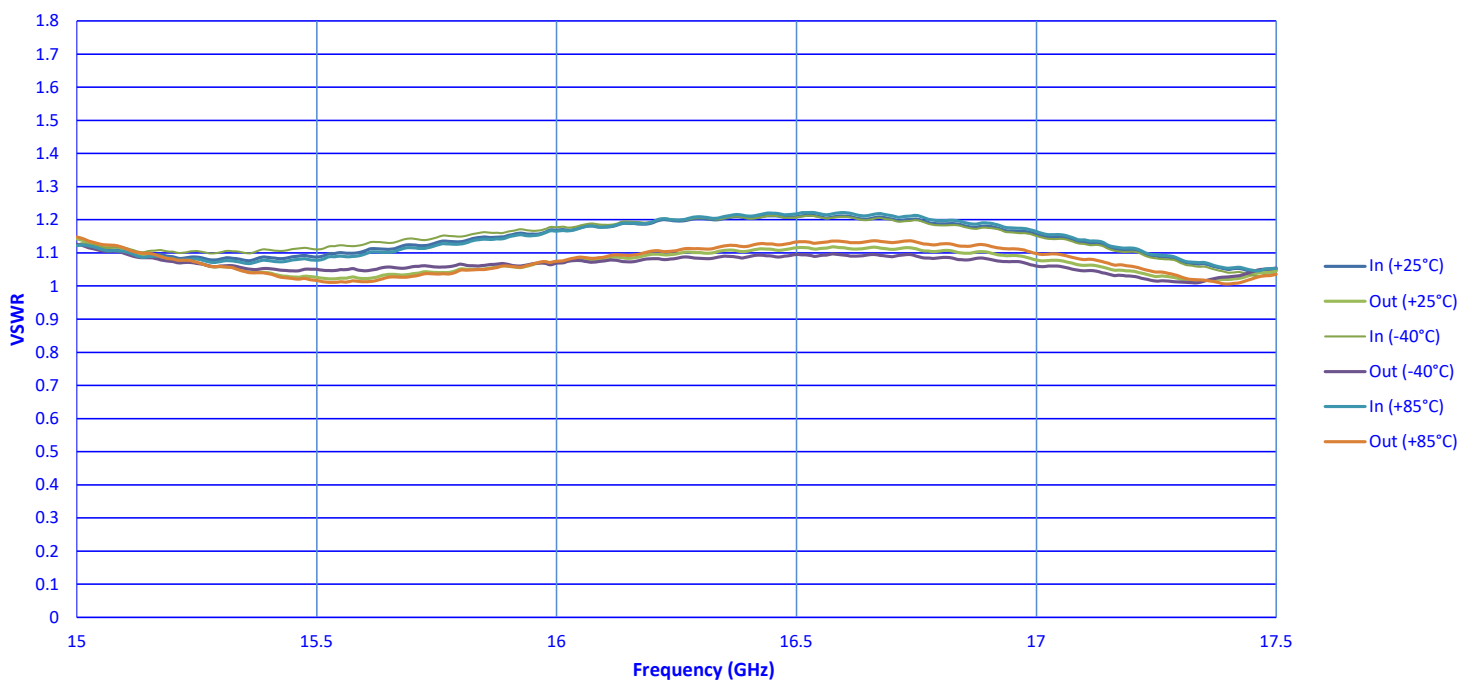


Typical Characteristics ON LM-15G17D5G-18-20W-1KWP-SFF

Insertion Loss



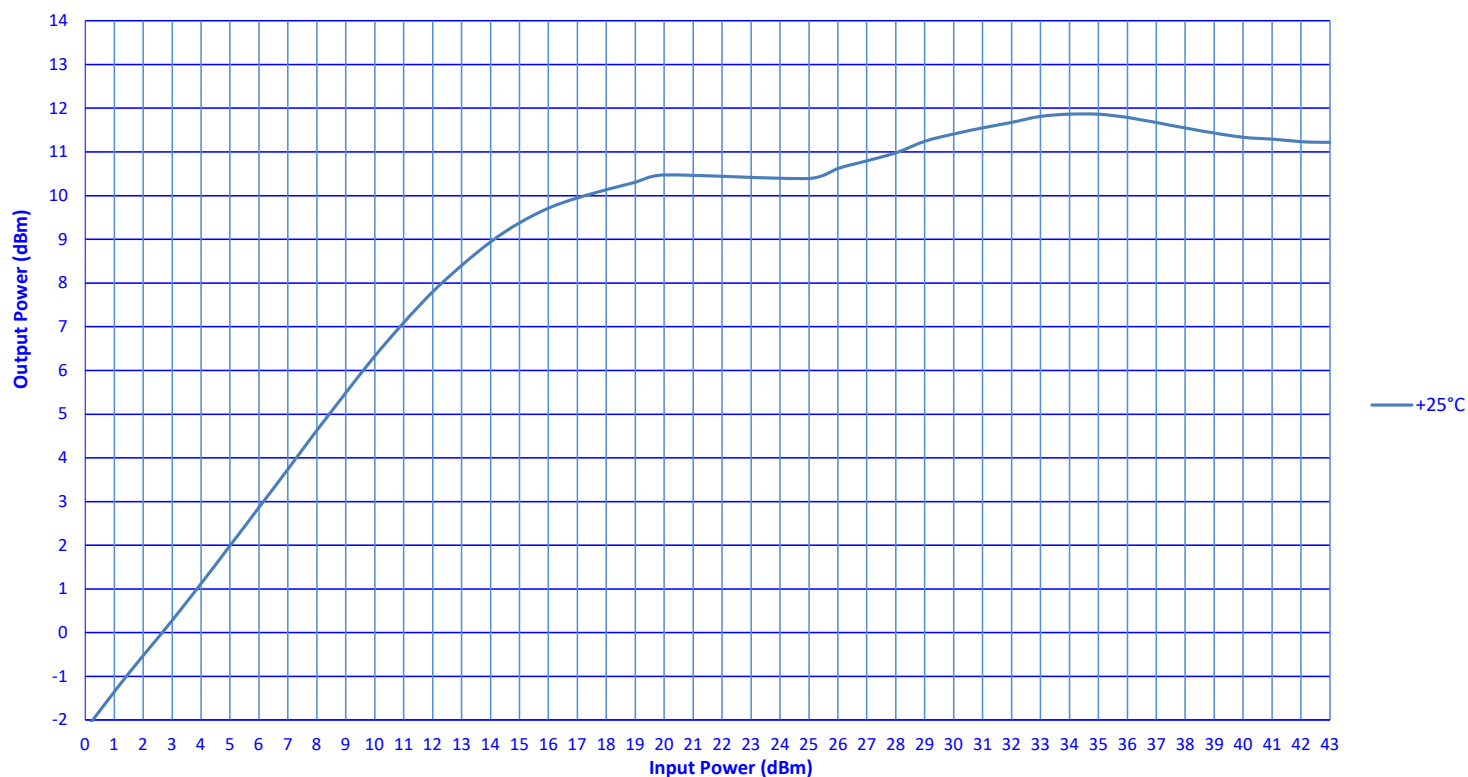
VSWR



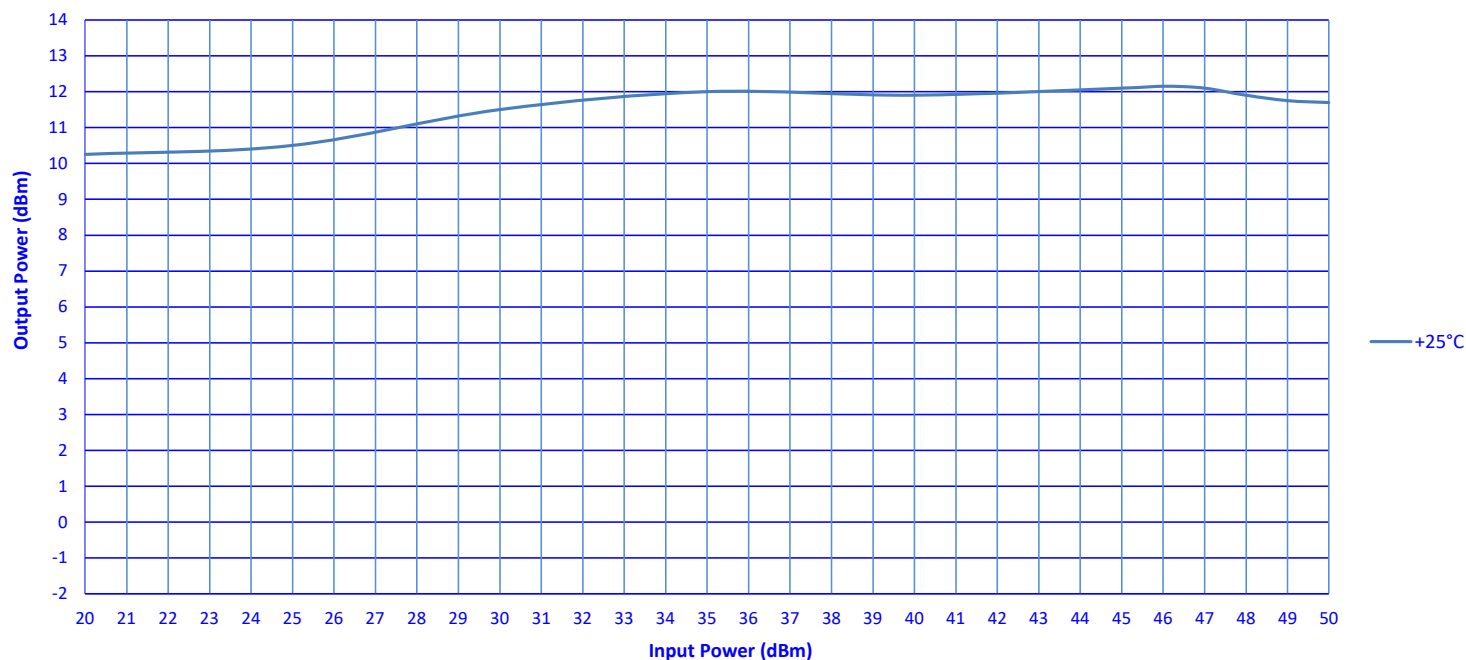


Typical Characteristics ON LM-15G17D5G-18-20W-1KWP-SFF

High Power Test CW @ 17GHz



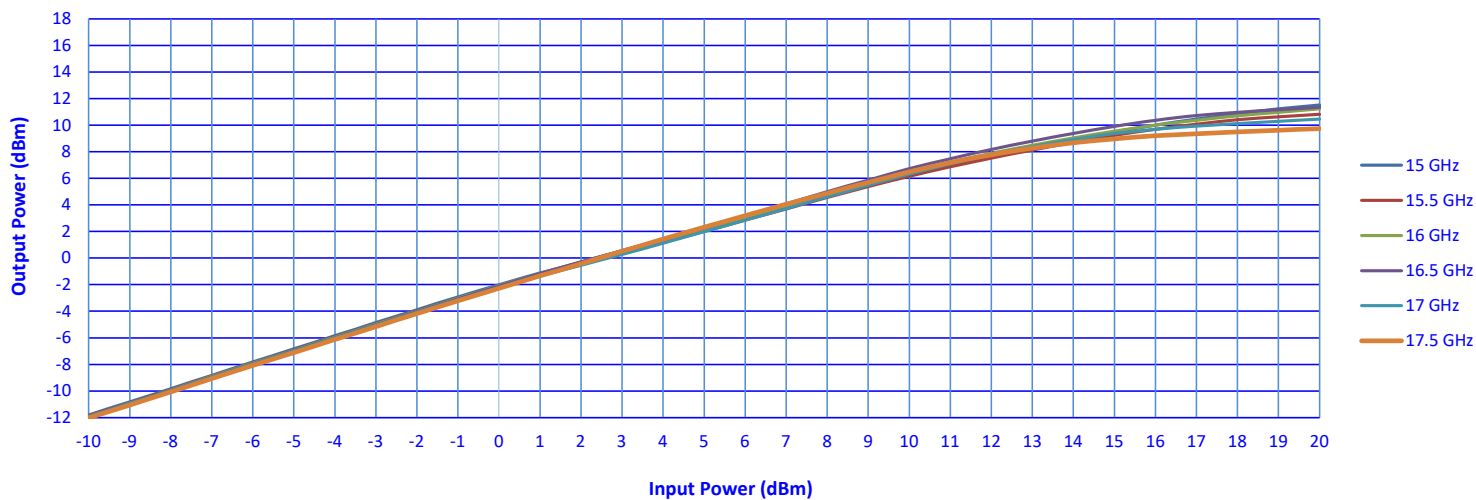
Peak Power Test Pulsed 20% DC, 100μs PW, 2KHz PRF @ 17GHz



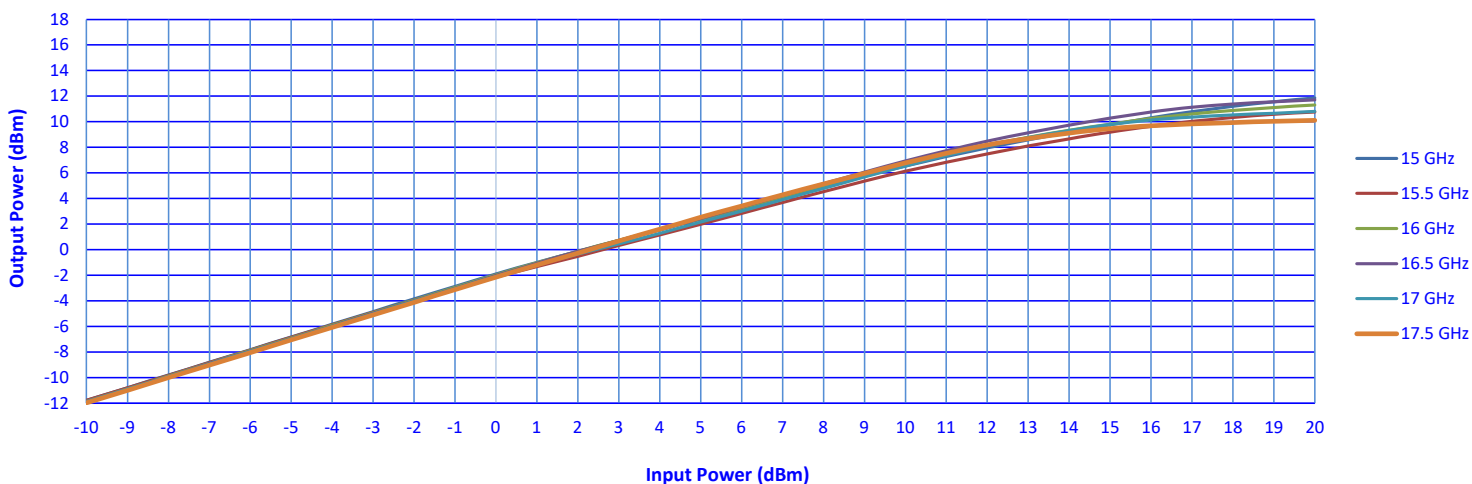


Typical Characteristics ON LM-15G17D5G-18-20W-1KWP-SFF

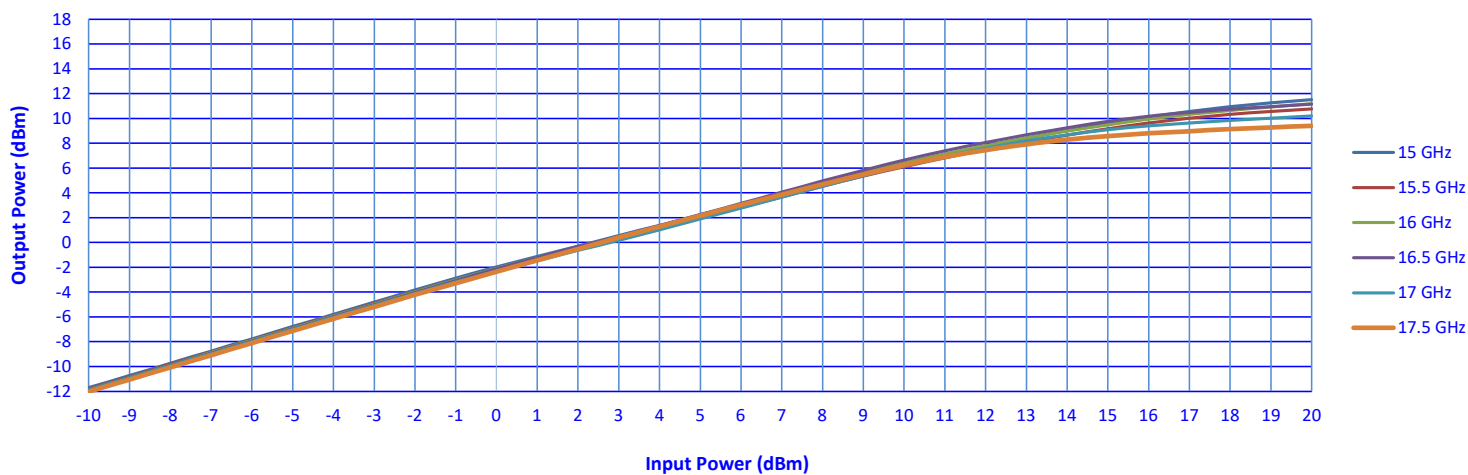
Limiting Threshold (P1dB) & +25°C



Limiting Threshold (P1dB) & -40°C



Limiting Threshold (P1dB) & +85°C





Typical Characteristics ON LM-15G17D5G-18-20W-1KWP-SFF

Recovery Time

Pulse Characteristics (PW - 100 μ s, PRF - 2 KHz, Duty Cycle - 20%)
5 ns Per Div.



Full Pulse 20 μ s Per Div.

