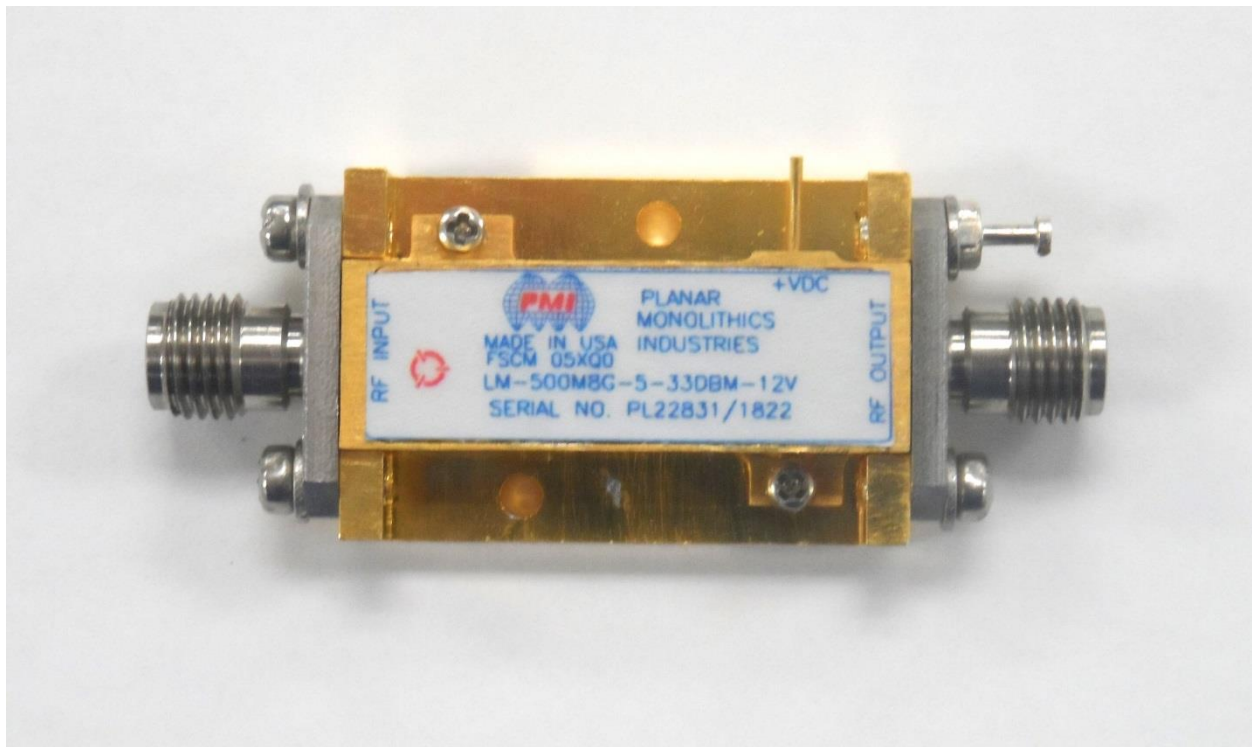




**TYPICAL CHARACTERISTICS
ON
LM-500M8G-5-33DBM-12V**

500 MHz to 8.0 GHz Active Limiter.



June, 5 2018

Designed By: PMI Engineering

Tested By: Kevin Mansfield



**TYPICAL CHARACTERISTICS
ON
LM-500M8G-5-33DBM-12V**

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TYPICAL CHARACTERISTICS ON LM-500M8G-5-33DBM-12V

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	A1	ORIGINAL RELEASE	8/18/18

Description:
500MHz to 8.0GHz Active Limiter Meeting The Following Specifications:

Specifications:
 Frequency: _____ 0.5 to 8.0 GHz
 Insertion Loss: _____ 2 dB Max.
 Max. Input Power: _____ +33 dBm CW
 Output Leakage Power: _____ +5 dBm Max.
 VSWR: _____ 2.0:1 Max.
 Noise Figure: _____ 4 dB Typ., 6 dB Max.
 Under Linear Condition (Non Limiting)
 DC Supply: _____ +12 to +15 V @ 180 mA Typ.
 Connectors: _____ SMA(F)
 Finish _____ Gold Plated

FUNCTIONAL BLOCK DIAGRAM

MECHANICAL OUTLINE

PMI CONFIDENTIAL AND PROPRIETARY

Environmental Ratings:
 Temperature: -55 to +85 Deg. C (Operating)
 -55 to +125 Deg. C (Storage)
 Humidity: MIL-STD-202F, METHOD 103B COND B.
 Shock: MIL-STD-202F, METHOD 213B COND B.
 Altitude: MIL-STD-202F, METHOD 105C COND B.
 Temperature Cycle: MIL-STD-202F, METHOD 107D COND A

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD
 FREDERICK, MARYLAND 21704 USA
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 WEBSITE: www.pmi-rf.com
 E-MAIL: sales@pmi-rf.com
 ISO 9001 CERTIFIED

APPROVALS		DATE	TITLE	
DESIGN	<i>X.M.</i>	8/28/18	PRODUCT FEATURE	
DESIGN			LM-500M8G-5-33DBM-12V	
REWORK	NJA	3/14/18	SIZE	FROM NO.
ISSUED			A	05XQ0
			DWG NO.	27034462
			REV.	A1
			SCALE	N:S
			SHEET	1 OF 1

Note: The above specifications are subject to change or revision.

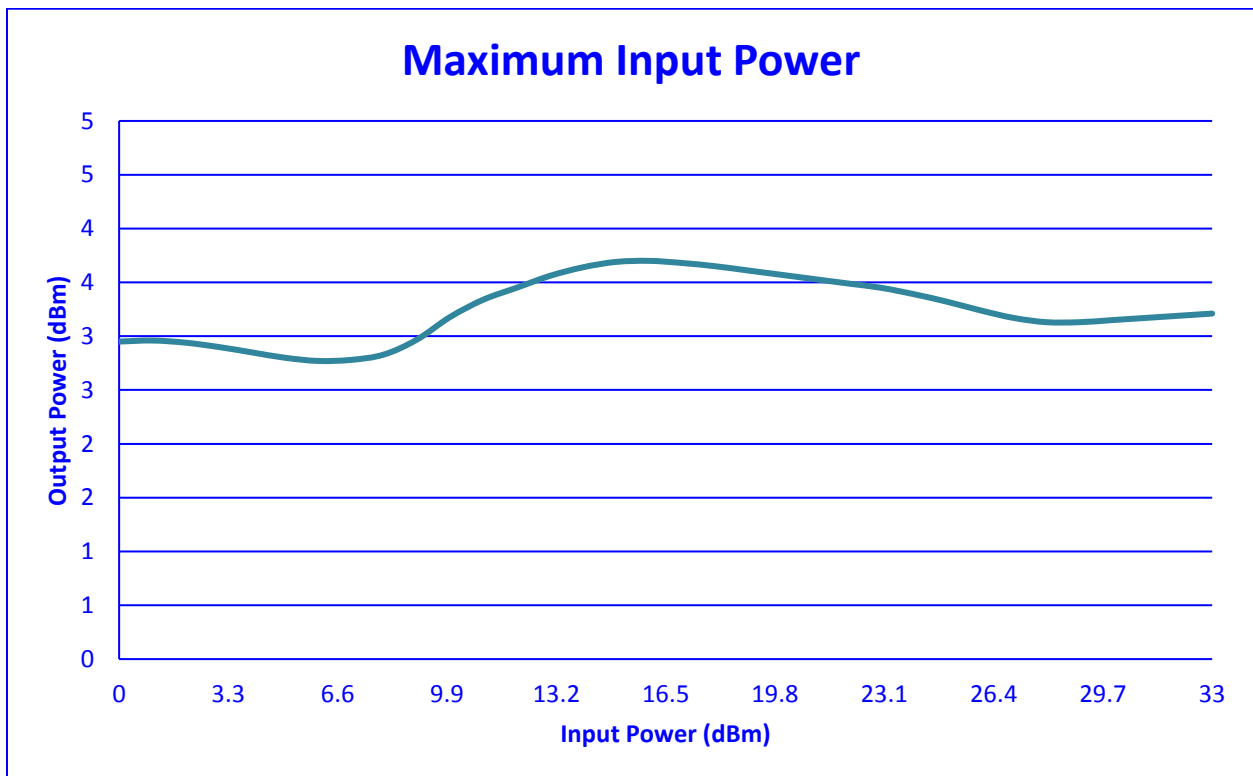
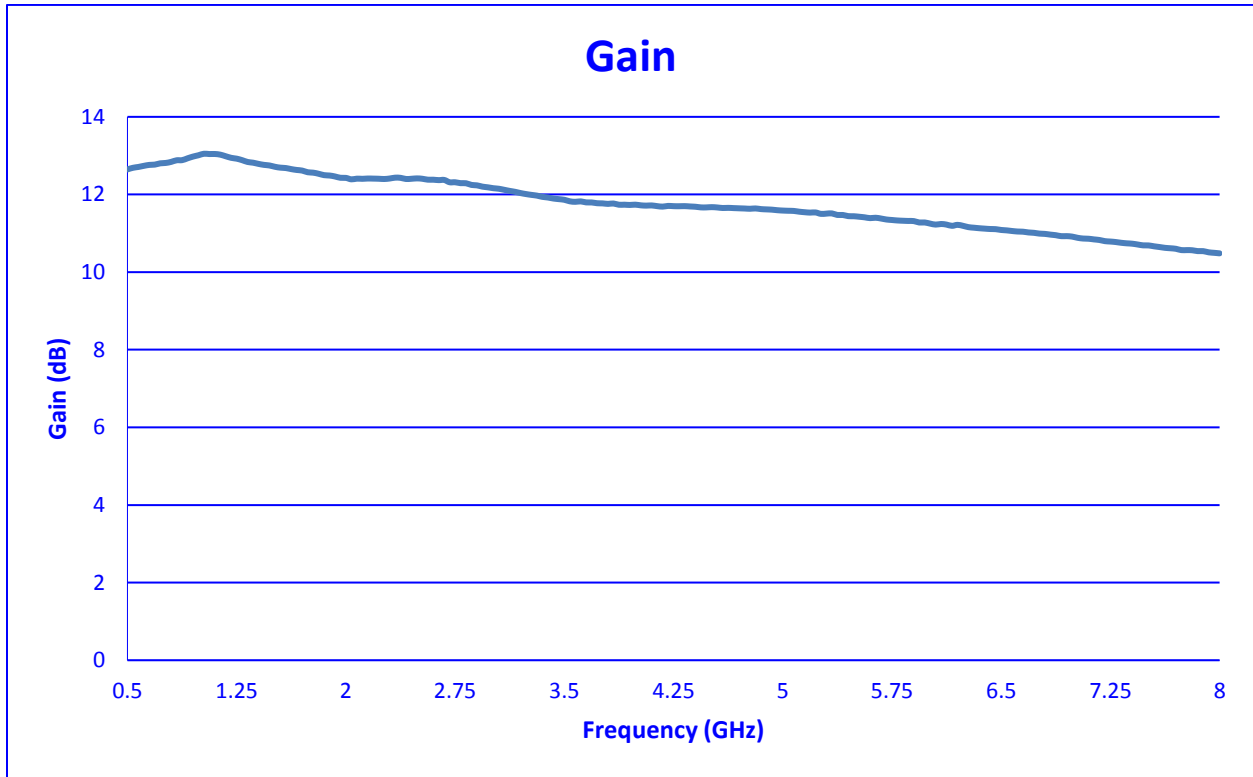


**TYPICAL CHARACTERISTICS
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LM-500M8G-5-33DBM-12V**

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	0.5 to 8.0 GHz	0.5 to 8.0 GHz	
2	Insertion Loss:	2.0 dB Max.	10.5 dB Gain See Plot	
3	Maximum Input Power:	+33 dBm CW	+33 dBm CW See Plot	
4	Output Leakage Power:	+5 dBm Max.	+3.7 dBm See Plot	
5	VSWR:	2.0:1 Max.	1.6:1 See Plot	
6	Noise Figure:	4 dB Typ., 6 dB Max. Under linear condition (non-limiting)	3.8 dB Typ. 5.2 dB Max. See Plot	
7	DC Supply:	+12 to +15 VDC @ 180 mA Typ.	111 mA	

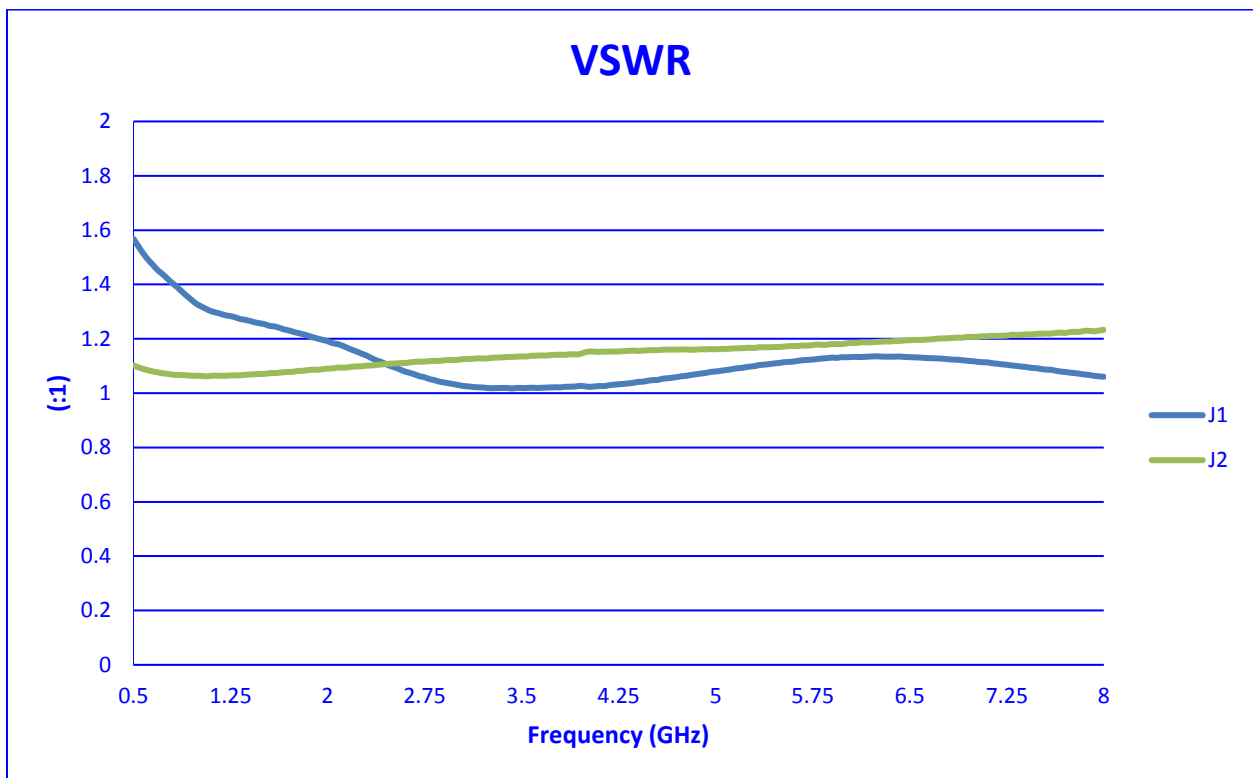
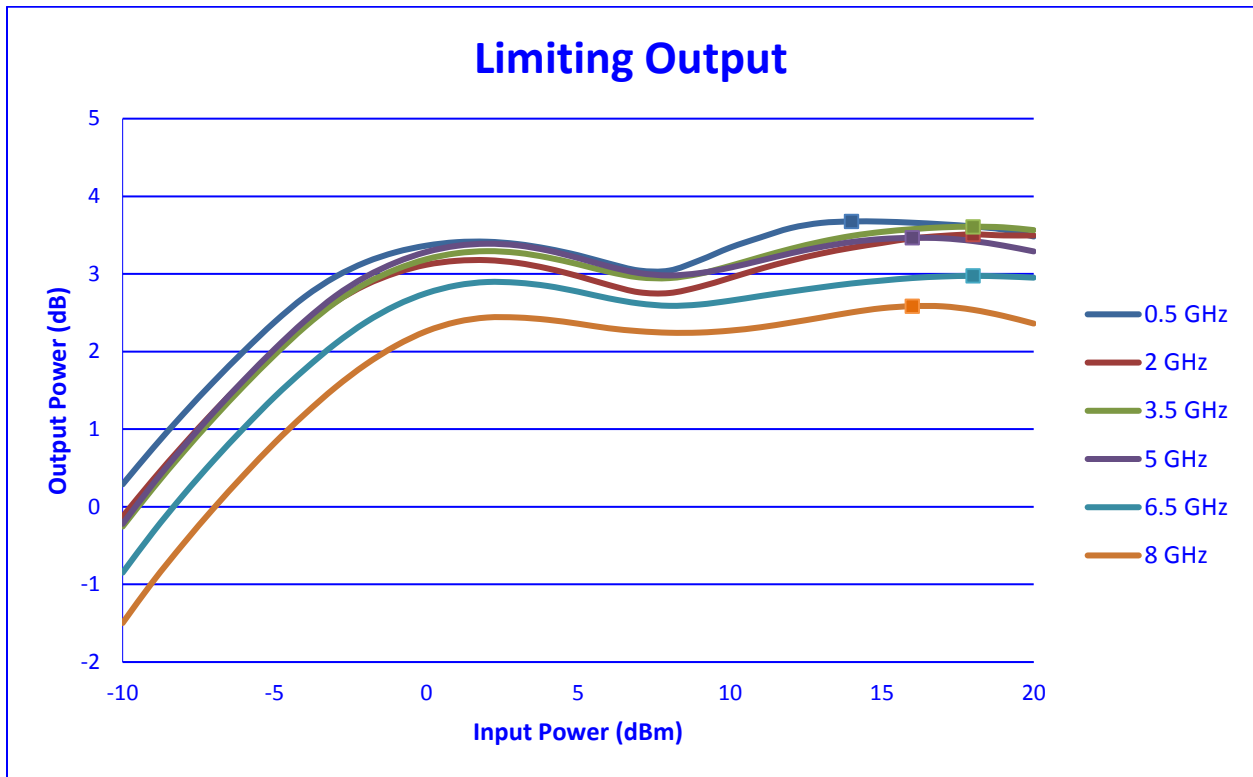


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