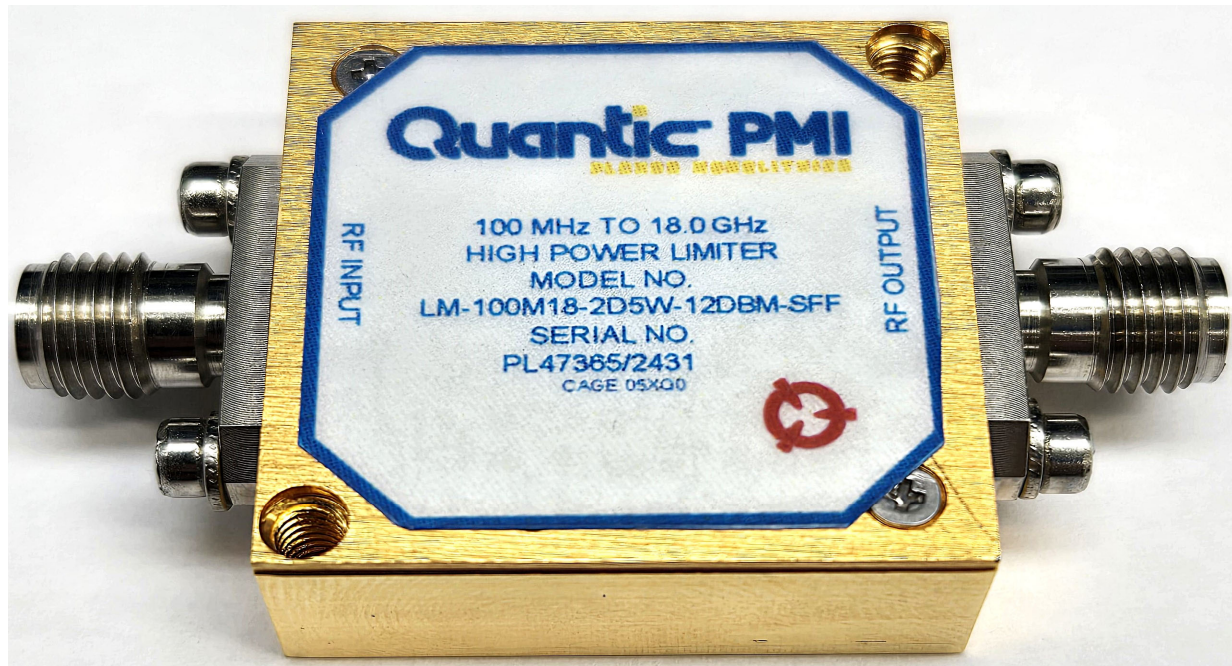




TYPICAL CHARACTERISTICS
ON
LM-100M18G-2D5W-12DBM-SFF



Thursday, August 8, 2024

Reported By: D. Hoschar

Tested By:
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TYPICAL CHARACTERISTICS ON LM-100M18G-2D5W-12DBM-SFF

Outline Drawing

DESCRIPTION:

PMI MODEL: LM-100M18-2D5W-12DBM-SFF IS A HIGH POWER LIMITER THAT OPERATES OVER THE 100 MHz TO 18.0 GHz FREQUENCY RANGE. THIS MODEL IS CAPABLE OF HANDLING AN INPUT POWER OF 2.5 WATTS CW, HOUSING WITHIN A COMPACT 1.00" x 1.00" x 0.40" PACKAGE OUTFITTED WITH FIELD REPLACEABLE SMA FEMALE CONNECTORS.

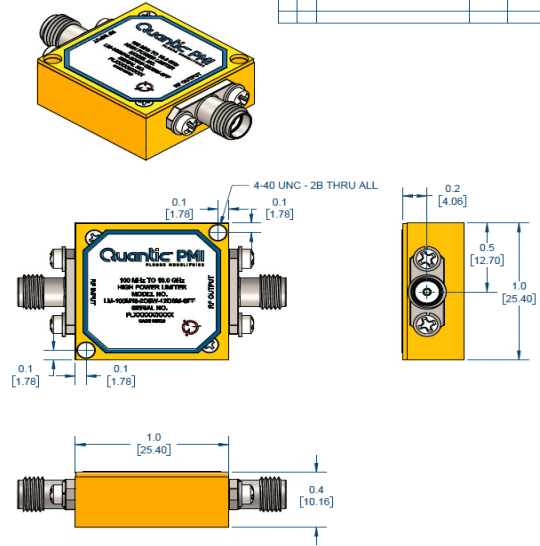
SPECIFICATIONS:

- FREQUENCY RANGE: 100 MHz TO 18.0 GHz
- RF INPUT POWER: 2.5 WATTS CW MAXIMUM
- RF LEAKAGE: +13 dBm TYPICAL
- RECOVERY TIME: 100 ns TYPICAL
- INSERTION LOSS @ -20 dBm INPUT POWER: 2.5 dB MAXIMUM
- VSWR @ -20 dBm INPUT POWER: 2.0:1 MAXIMUM
- CONNECTORS: SMA FEMALE
- SIZE (EXCLUDING CONNECTORS): 1.00" x 1.00" x 0.40"
- FINISH: 25.4mm x 25.4mm x 10.16mm
- FINISH: GOLD PLATED

ENVIRONMENTAL RATINGS:

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



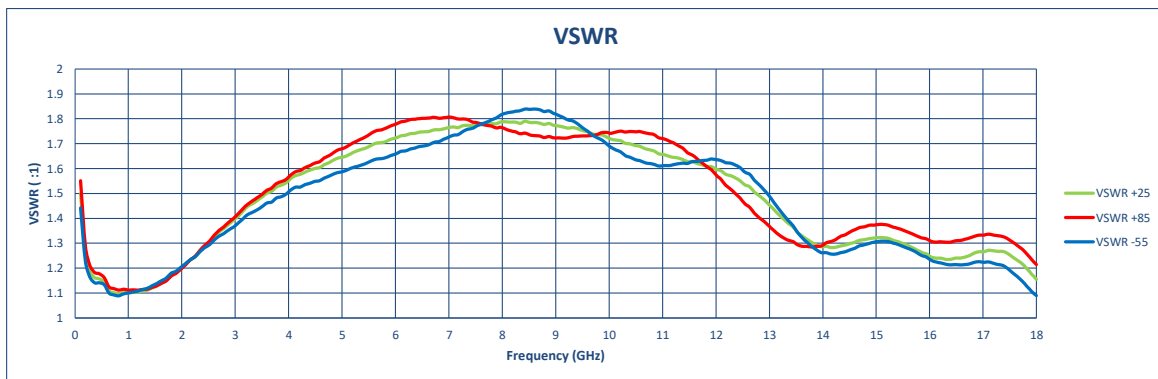
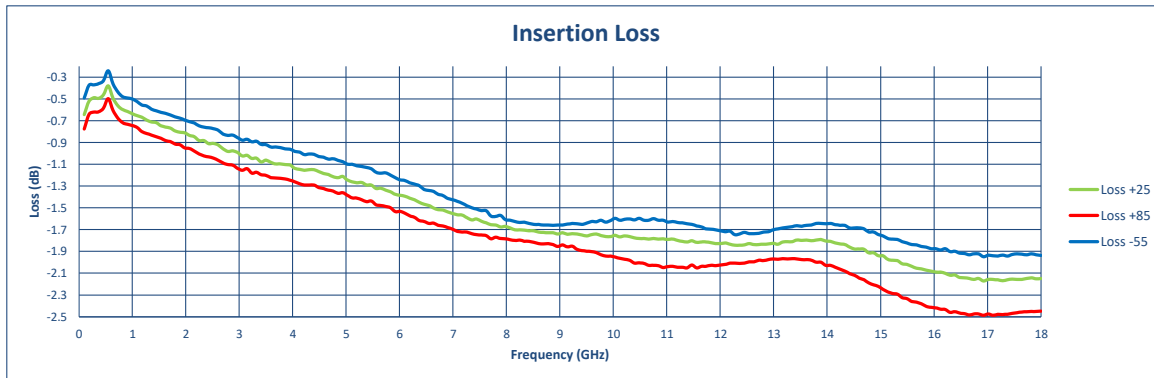
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	04/08/04	

MATERIAL		APPROVALS	DATE	PMI CONFIDENTIAL AND PROPRIETARY	
FINISH		DESIGN	04/08/04	Quantic PMI	
NEXT ASSY		USED ON		LM-100M18-2D5W-12DBM-SFF	
APPLICATION		REVISION		REV A1	
		SCALE	2:1	SHEET 1 OF 1	

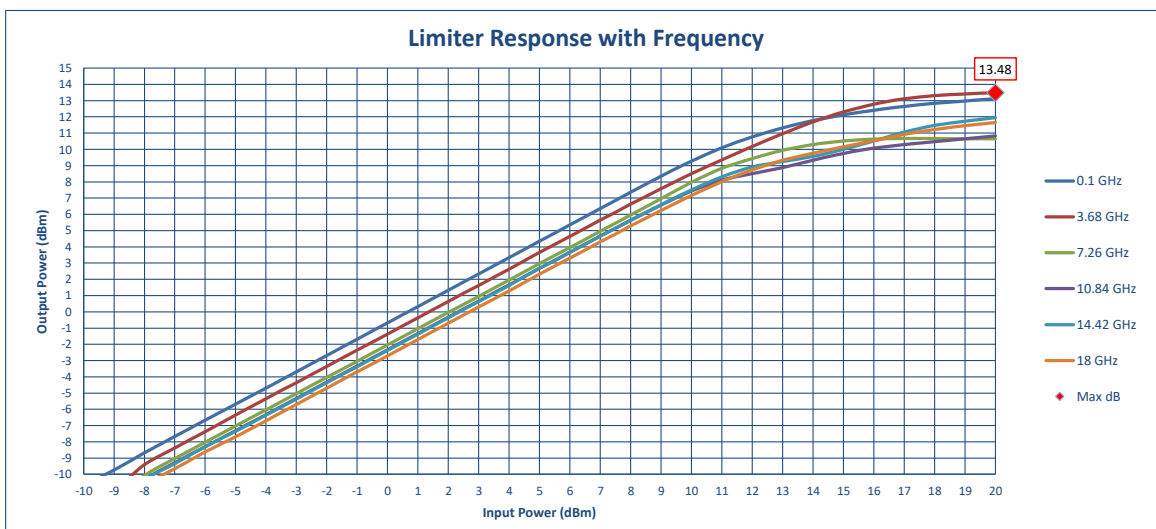
**TYPICAL CHARACTERISTICS
ON
LM-100M18G-2D5W-12DBM-SFF**

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results			QA QC
			+25°C	+85°C	-55°C	
1	Frequency Range:	100 MHz to 18 GHz	100 MHz to 8 GHz			
2	Insertion Loss:	2.5 dB Max @ -20 dBm Input Power	2.17 dB See Graph	2.49 dB See Graph	1.95 dB See Graph	
3	VSWR:	2.0:1 Max @ -20 dBm Input Power	1.79:1 See Graph	1.81:1 See Graph	1.84:1 See Graph	
4	RF Leakage:	+13 dBm Typ	+13.48 dBm See Graph	+12.86 dBm See Graph	+14.18 dBm See Graph	

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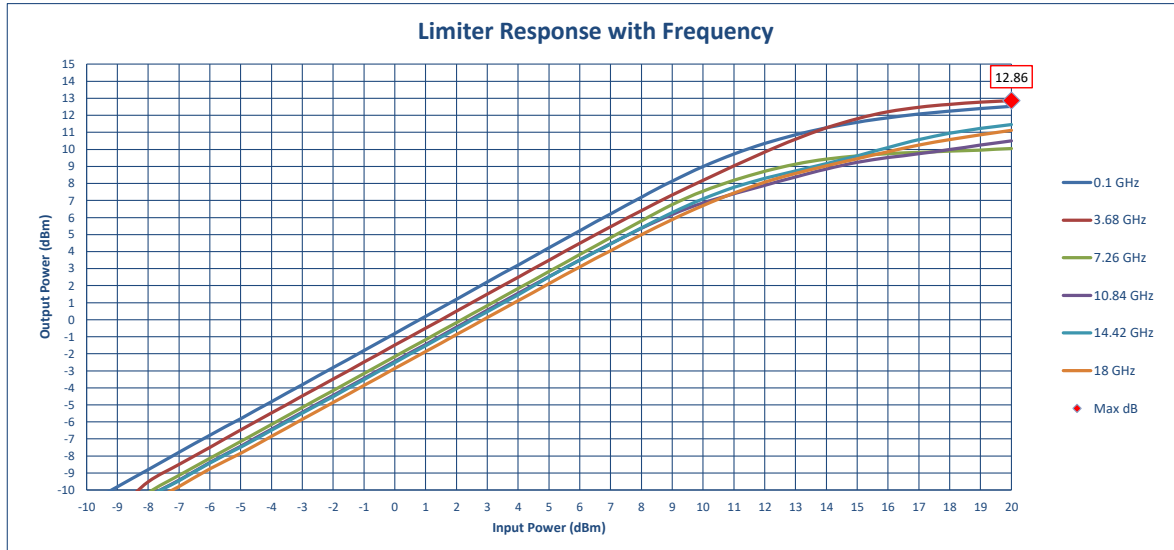


Limiter Response 25°C



**TYPICAL CHARACTERISTICS
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+85°C



-55°C

