



TYPICAL CHARACTERISTICS
ON
LM-1G18G-15-10W-500WP-SFF



Thursday, August 8, 2024

Reported By: D. Hoschar

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Outline Drawing

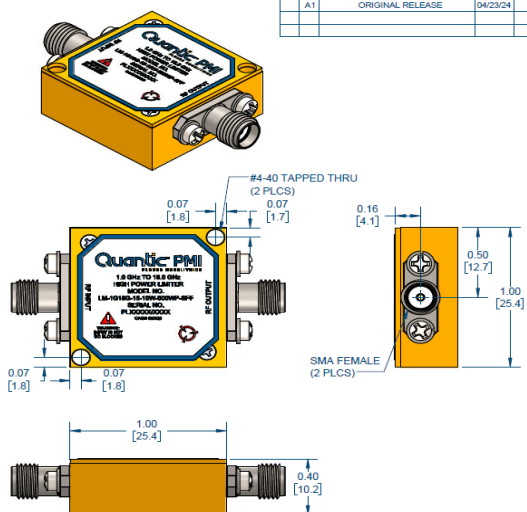
DESCRIPTION:

PMI MODEL: LM-1G18G-15-10W-500WP-SFF IS A HIGH POWER LIMITER THAT OPERATES OVER THE 1.0 TO 18.0 GHz FREQUENCY RANGE. THIS MODEL IS CAPABLE OF HANDLING AN INPUT POWER OF 10 WATTS CW @ 500 WATTS PEAK, HOUSED WITHIN A COMPACT 1.00" x 1.00" x 0.40" PACKAGE OUTFITTED WITH FIELD REPLACEABLE SMA FEMALE CONNECTORS.

SPECIFICATIONS:

- FREQUENCY RANGE: _____ 1.0 TO 18.0 GHz
- RF INPUT POWER: _____ 10 WATTS CW MAXIMUM
- PEAK INPUT POWER : _____ 500 WATTS MAXIMUM*
- RF LEAKAGE: _____ +17 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"
_____ 25.4mm x 25.4mm x 10.16mm
- FINISH: _____ GOLD PLATED

*=@0.1% DUTY CYCLE & 1 μ s PULSE WIDTH



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 TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ZONE	REV.	DESCRIPTION	DATE	APPROV.
	A1	ORIGINAL RELEASE	04/23/24	

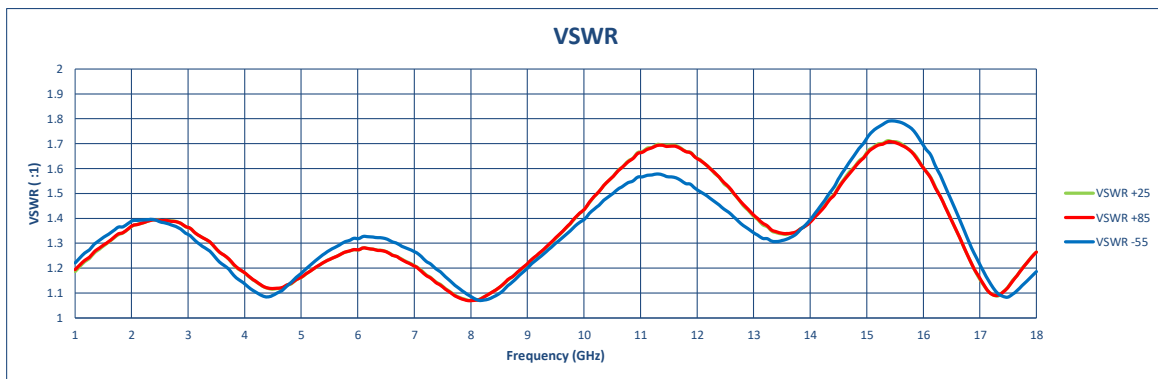
(1) QUANTIC (2) PMI 7250A GIBBS ROAD, SUITE 100, FORT MYERS, FL 33907-1000 TEL: 888.888.8888 FAX: 888.888.8888 WWW.QUANTICPMI.COM		QUANTIC PMI PLUMBER INSTALLATION	
		TITLE Outline LM-1G18G-15-10W-500WP-SFF	
APPROVALS DATE DESIGNER K. Hosschar 6/6/2020 CHECKED TESTED		B1: PFCM NO: 2704870 B2: 05XQ B3: 25XQ	



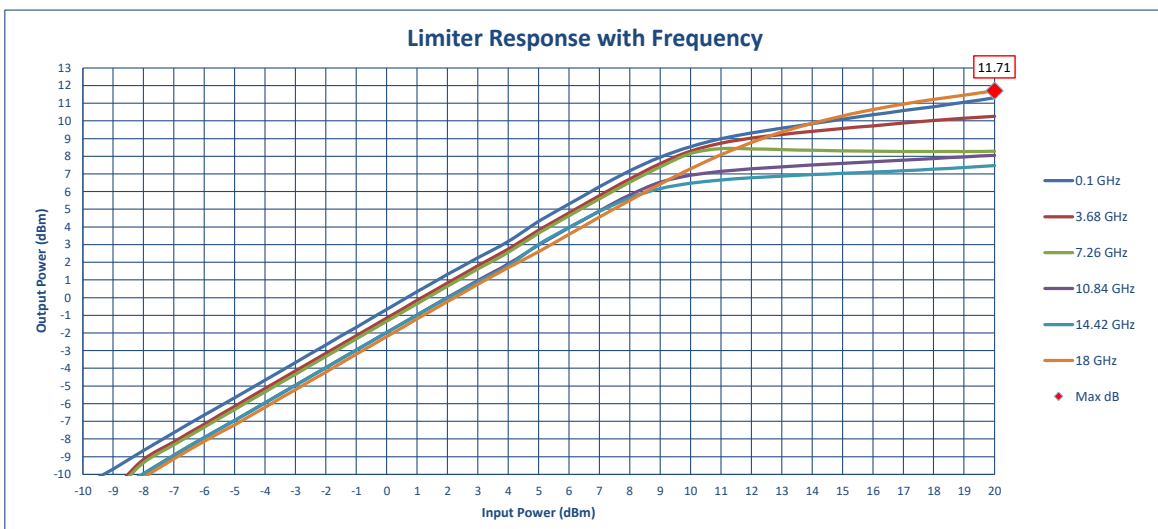
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TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results			QA QC
			+25°C	+85°C	-55°C	
1	Frequency Range:	1 GHz to 18 GHz	1 GHz to 18 GHz			
2	Insertion Loss:	2.5 dB Max @ -20 dBm Input Power	1.57 dB See Graph	1.57 dB See Graph	1.57 dB See Graph	
3	VSWR:	2.0:1 Max @ -20 dBm Input Power	1.71:1 See Graph	1.71:1 See Graph	1.79:1 See Graph	
4	RF Leakage:	+17 dBm Typ	+11.71 dBm See Graph	+11.68 dBm See Graph	+12.37 dBm See Graph	

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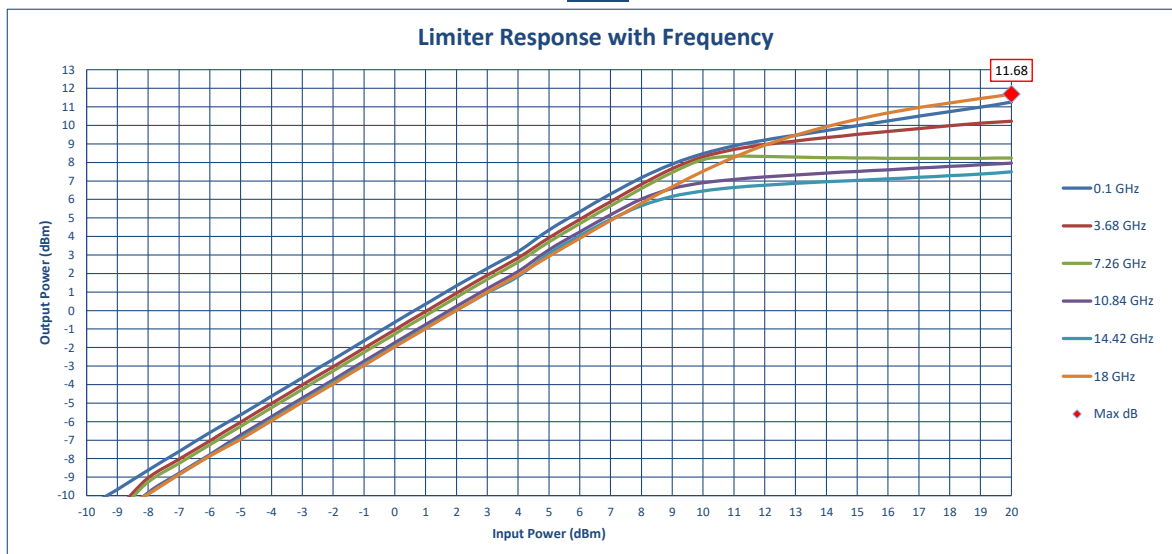


Limiter Response 25°C



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+85°C



-55°C

