

DESCRIPTION

THE MODEL PMI LM-20M18G-100W-15DBM-TH IS AN RF LIMITER THAT OPERATES IN THE RANGE OF FREQUENCIES FROM 20MHZ TO 18GHZ. THIS LIMITER CAN HANDLE UP TO 100W CW MORE THAN 20MHZ TO 18GHZ, FOR ALL TEMPERATURES (-55 ° TO +85 ° C) THE ENERGY INPUT PROVIDES LEAKS OF + 15DBM MAX. THIS MODEL HAS A LOW INSERTION LOSS OF 2.60 DB AND A MAXIMUN 100NSEC RECOVERY TIME.

SPECIFICATIONS

- FREQUENCY RANGE: --- 20 MHz TO 18.0 GHz
- RF POWER HANDLING:---
 - 100W CW MAX. @ -55 °C TO +85°C
 - 1KW PEAK MIN. +85°C (1µs Pulse Width, 0.1% Duty Cycle)
 - 100W (1µs, 1% DUTY CYCLE, 10KHZ)
 - 100W (10 µs, 0.1% DUTY CYCLE, 100HZ)
 - 100W (1 µs, 0.1% DUTY CYCLE, 1KHZ)
 - 100W (40 µs, 10% DUTY CYCLE, 2.5KHZ)
- INSERTION LOSS: ----- 2.60 dB MAX. @ -10 dBm INPUT POWER
- RECOVERY TIME :----- 100 ns MAX. @ 100 W PEAK POWER
- LEAKAGE POWER: ----- +15 dBm MAX. AT 100W CW
- VSWR: ----- 2.0:1 MAX. @ -10 dBm INPUT POWER
- LIMITING THRESHOLD: (P1dB)----- +5 dBm MINIMUM
- CONNECTORS: ----- INPUT: SMA MALE
OUTPUT: SMA FEMALE
- WEIGHT: ----- 20g [0.705 oz] MAX.
- SIZE: ----- 15.88mm x 20.32mm x 10.16mm
0.625" x 0.80" x 0.40"
EXCLUDING CONNECTORS
- FINISH: ----- PAINTED BLUE

*NO DC BLOCKS ARE USED IN INSIDE THIS LIMITER

ENVIRONMENTAL RATINGS

IAW MIL-E-5400, CLASS 2 EQUIPMENT

- TEMPERATURE: ----- -55 °C TO +85 °C (OPERATING)
-62 °C TO +95 °C (STORAGE)
- VIBRATION: ----- 0.1 inchpp OR ± 10G, 5 ~ 500 Hz
(FIGURE 2, SHEET 1 OF 3, CURVE IV)
- SHOCK: ----- 15G, 11±1 ms
- HUMIDITY: ----- 100%
- ALTITUDE: ----- 70,000 FT

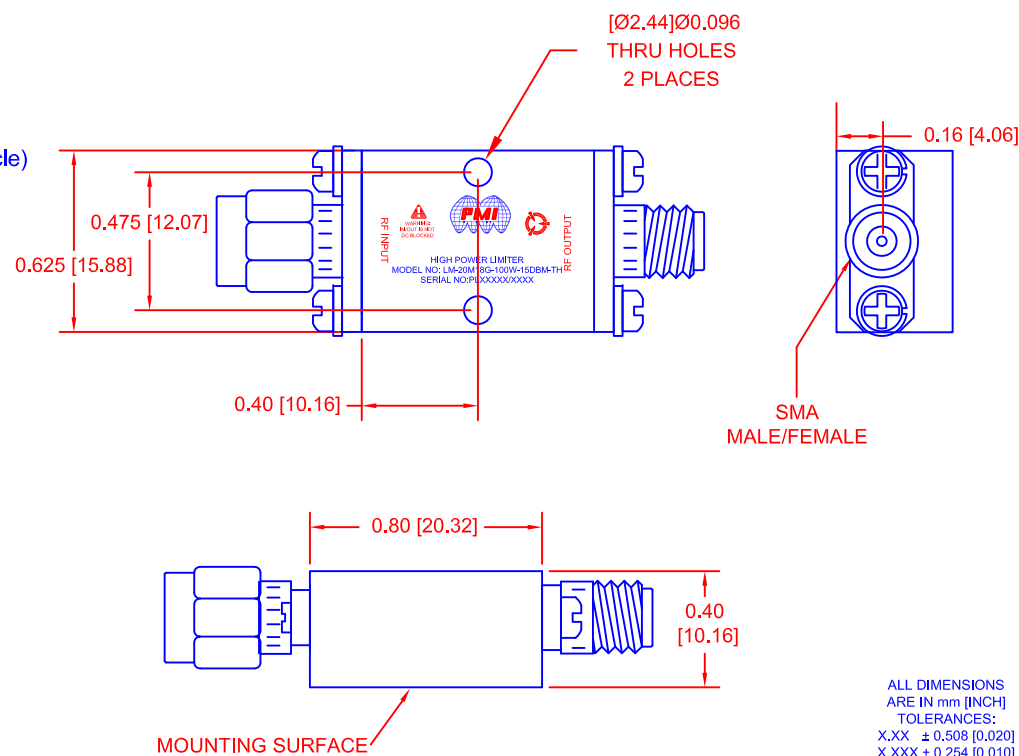
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	9/18/2023	

MECHANICAL OUTLINE



ALL DIMENSIONS
ARE IN mm [INCH]
TOLERANCES:
X,XX ± 0.508 [0.020]
X,XXX ± 0.254 [0.010]

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD

FREDERICK, MARYLAND 21704 USA

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

WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com

ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN <i>JPH</i>		9/18/23		PRODUCT FEATURE LM-20M18G-100W-15DBM-TH 0.02 to 18.0 GHz Coaxial Limiter	
CHECKED				SIZE A	FSCM NO. 05XQ0
ISSUED				DWG NO.	PRELIMINARY
				SCALE N:S	SHEET 1 OF 1