

DESCRIPTION

THE MODEL PMI LM-20M15G-100W-15DBM IS AN RF LIMITER THAT OPERATES IN THE RANGE OF FREQUENCIES FROM 10MHZ TO 15GHZ. THIS LIMITER CAN HANDLE UP TO 100W CW MORE THAN 10MHZ TO 15GHZ, FOR ALL TEMPERATURES (-55 ° TO +85 ° C) THE ENERGY INPUT PROVIDES LEAKS OF + 15DBM MAX. THIS MODEL HAS A LOW INSERTION LOSS OF 1.6DB AND A TYPICAL 100NSEC RECOVERY TIME.

SPECIFICATIONS

- FREQUENCY RANGE: --- 10 MHZ TO 15.0 GHz
- RF POWER HANDLING:---
 - 100W CW MAX @ -55 °C TO +85°C
 - 1KW PEAK MIN +85°C (1us Pulse Width, 0.1% Duty Cycle)
 - 100W (1US, 1% DUTY CYCLE, 10KHZ)
 - 100W (10US, 0.1% DUTY CYCLE, 100HZ)
 - 100W (1US, 0.1% DUTY CYCLE, 1KHZ)
 - 100W (40US, 10% DUTY CYCLE, 2.5KHZ)
- INSERTION LOSS: ----- 1.60 dB MAX @ -10 dBm INPUT POWER
- RECOVERY TIME :----- 100 ns MAX @ 1000 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: ----- (L) 22.86mm x (W) 9.65mm x (H) 9.65mm MAX
[(L) 0.90" x (W) 0.38" x (H) 0.38" MAX
EXCLUDING CONNECTORS
- FINISH: ----- PAINTED BLUE

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

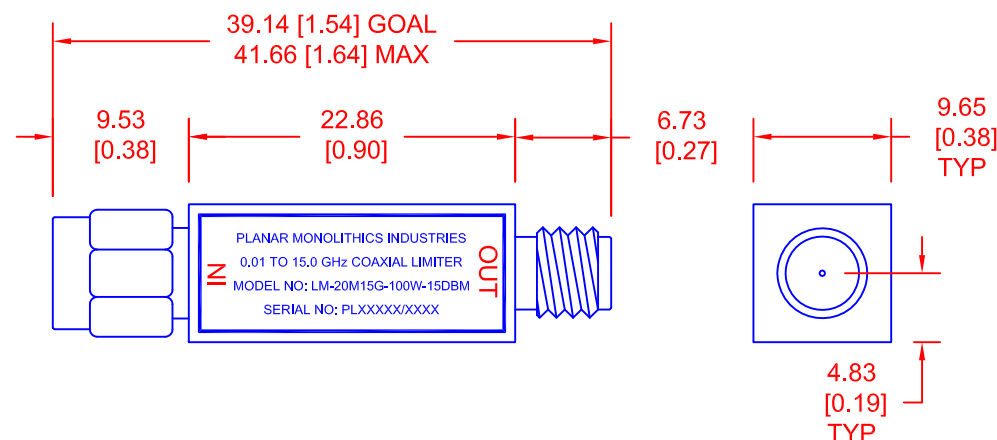
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	12/18/18	

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



		TITLE PRODUCT FEATURE LM-20M15G-100W-15DBM 0.02 to 15.0 GHz Coaxial Limiter					
APPROVALS	DATE						
DRAWN <i>A. Lopez</i>	<i>12/18/18</i>						
CHECKED		SIZE A	FSCM NO. XXXX	DWG NO. PRELIMINARY	REV. A1		
ISSUED		SCALE N:S		SHEET 1 OF 1			