

## DESCRIPTION

THE MODEL PMI LM-20M18G-100W-15DBM-SFM 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 FEMALE  
OUTPUT: SMA MALE
- 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

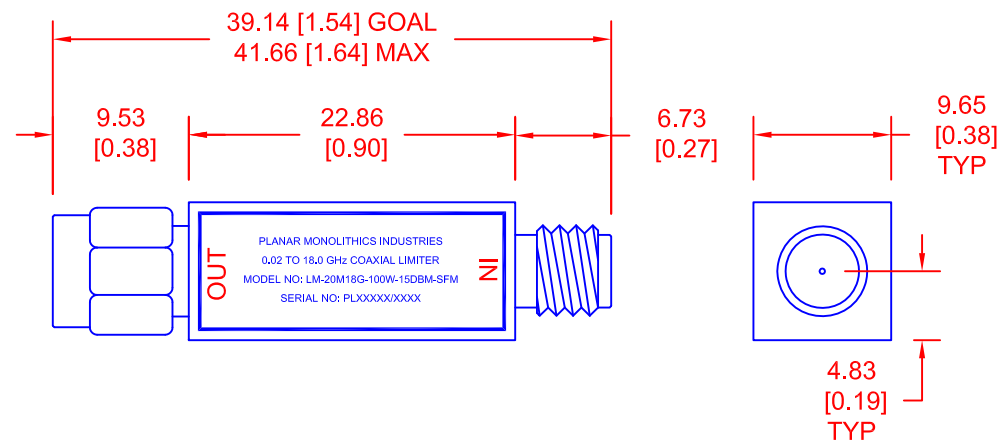
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

**PMI CONFIDENTIAL AND PROPRIETARY**

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	11/3/22	

## 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		DATE	
DRAWN		11/3/22		PRODUCT FEATURE			
CHECKED				LM-20M18G-100W-15DBM-SFM			
ISSUED				0.02 to 18.0 GHz Coaxial Limiter			
SIZE		FSCM NO.		DWG NO.		REV.	
A		05XQ0		PRELIMINARY		-	
SCALE		N:S		SHEET		1 OF 1	