

## DESCRIPTION

THE MODEL PMI LM-20M18G-80W-15DBM IS AN RF LIMITER THAT OPERATES IN THE RANGE OF FREQUENCIES FROM 20MHZ TO 18GHZ. THIS LIMITER CAN HANDLE UP TO 80W 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 2.6DB AND A TYPICAL 100NSEC RECOVERY TIME.

## SPECIFICATIONS

- FREQUENCY RANGE: --- 10 MHZ TO 18.0 GHz
- RF POWER HANDLING:---
  - 80W 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)
  - 80W (1US, 0.1% DUTY CYCLE, 1KHZ)
  - 80W (40US, 10% DUTY CYCLE, 2.5KHZ)
- INSERTION LOSS: ----- 2.60 dB MAX @ -10 dBm INPUT POWER
- RECOVERY TIME :----- 100 ns MAX @ 1000 W PEAK POWER
- LEAKAGE POWER: ----- +15 dBm MAX AT 80W 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

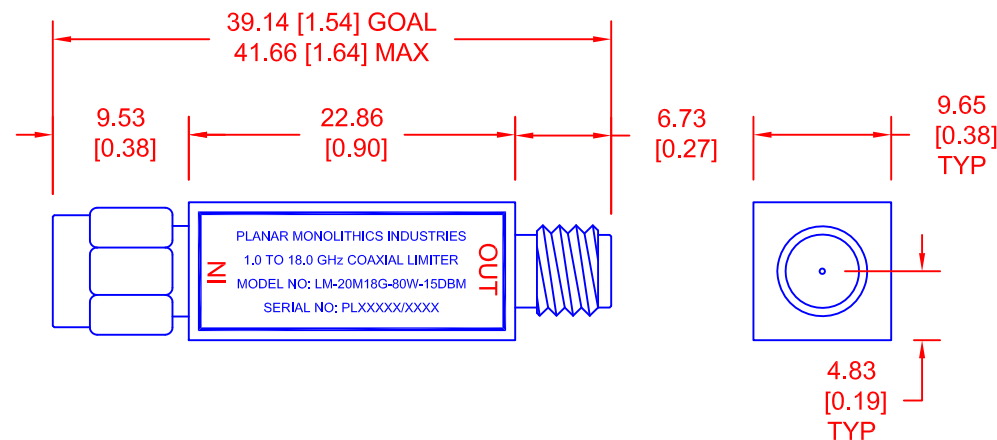
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

**PMI CONFIDENTIAL AND PROPRIETARY**

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	05/12/18	

## 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



APPROVALS		DATE		TITLE	
DRAWN <i>A. Lopez</i>		05/12/18		PRODUCT FEATURE LM-20M18G-80W-15DBM 0.02 to 18.0 GHz Coaxial Limiter	
CHECKED				SIZE A	FSCM NO. XXXX
ISSUED				DWG NO.	PRELIMINARY
				SCALE N:S	SHEET 1 OF 1