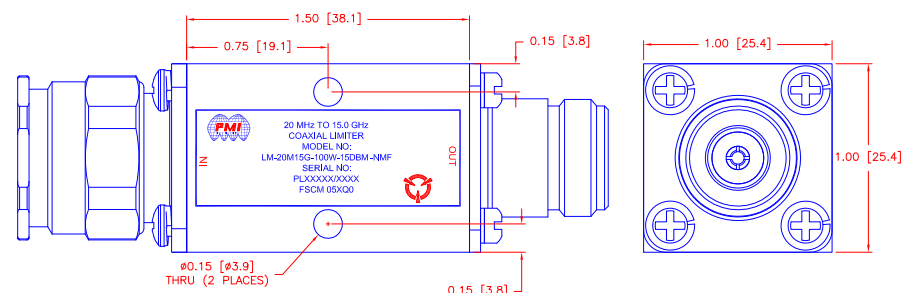
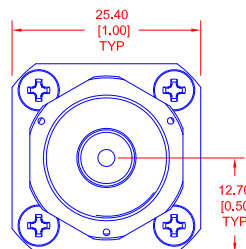


## DESCRIPTION

THE MODEL PMI LM-20M15G-100W-15DBM-NMF IS AN RF LIMITER THAT OPERATES IN THE RANGE OF FREQUENCIES FROM 20.0 MHZ TO 15.0 GHZ. THIS LIMITER CAN HANDLE UP TO 100W CW MORE THAN 20.0 MHZ TO 15.0 GHZ, FOR ALL TEMPERATURES (-55 ° TO +85 ° C) THE ENERGY INPUT PROVIDES LEAKS OF + 15DBM MAX. THIS MODEL HAS A LOW INSERTION LOSS OF 1.80 DB AND A TYPICAL 100 ns RECOVERY TIME.

## SPECIFICATIONS

- FREQUENCY RANGE: --- 20.0 MHz to 15.0 GHz
- RF POWER HANDLING: --- 100W CW MAX @ -55 °C TO +85°C  
1KW PEAK MAX +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: ----- 2.0 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: N-TYPE MALE  
OUTPUT: N-TYPE FEMALE
- SIZE: ----- 1.50" x 1.00" x 1.00"  
EXCLUDING CONNECTORS
- FINISH: ----- PAINTED BLUE



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

## 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	8/6/2021	

## MECHANICAL OUTLINE

## PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN		8/6/2021		PRODUCT FEATURE	
REDRAWN				LM-20M15G-100W-15DBM-NMF	
ISSUED				20.0 MHz to 15.0 GHz Coaxial Limiter	
SIZE		FSCM NO.		DWG NO.	
A		05XQ0		PRELIMINARY	
SCALE		N:S		SHEET	
				1 OF 1	