

DESCRIPTION

THE MODEL PMI LM-20M15G-100W-15DBM 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: ----- 1.80 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

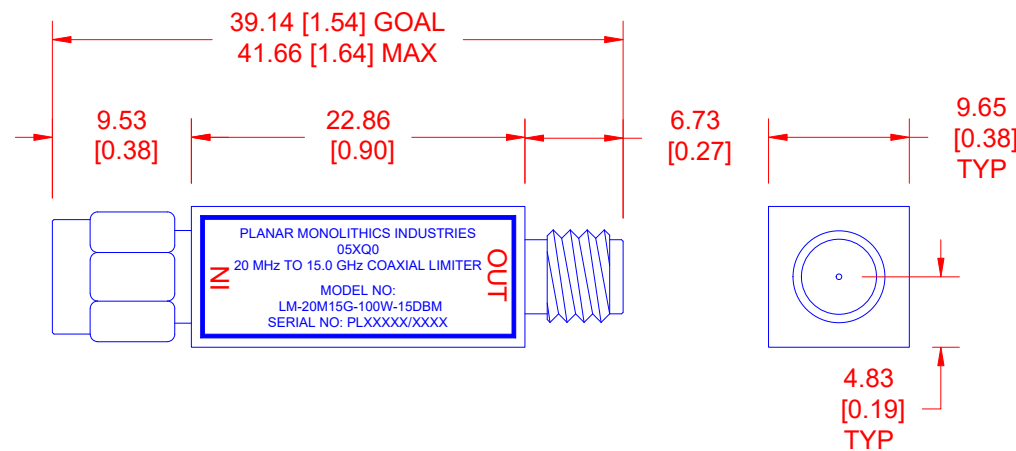
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	8/6/19	
	A2	ECN#21-0007	1/20/21	

MECHANICAL OUTLINE



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

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN <i>PMH</i>		5/8/20		PRODUCT FEATURE LM-20M15G-100W-15DBM 20.0 MHz to 15.0 GHz Coaxial Limiter	
REDRAWN				SIZE A	REV. A2
ISSUED				FSCM NO. 05XQ0	DWG NO. 27038620
				SCALE N:S	SHEET 1 OF 1