

DESCRIPTION

THE MODEL PMI LM-20M18G-100W-15DBM-GOLD 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 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: ----- Gold Plated

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

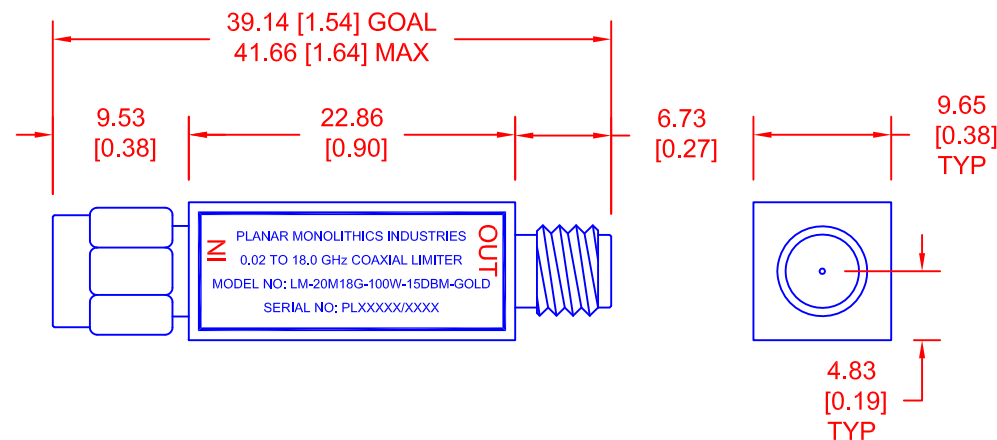
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	Preliminary	12/21/23	

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		REV.	
DRAWN <i>P. Bastian</i>		12/21/23		PRODUCT FEATURE LM-20M18G-100W-15DBM-GOLD 0.02 to 18.0 GHz Coaxial Limiter		-	
CHECKED				SIZE A	FSCM NO. 05XQ0	DWG NO. Preliminary	
ISSUED				SCALE N:S		SHEET 1 OF 1	