

DESCRIPTION

PMI MODEL: LM-20M1G-20W-SMA IS A COAXIAL LIMITER WITH AN OPERATING RANGE OF 20 MHz TO 1.0 GHz. THIS MODEL HAS A MAXIMUM INSERTION LOSS OF 2.0 dB AT -10 dBm INPUT POWER WITH A VSWR OF 1.5:1 MAXIMUM. THIS COMPACT UNIT MEASURES 0.90" x 0.38" SQUARE AND IS OUTFITTED WITH SMA CONNECTORS.

SPECIFICATIONS

- FREQUENCY RANGE: --- 20 MHz TO 1.0 GHz
- RF POWER HANDLING: - 20W CW MAX @ -55 TO +85°C
1 KW PEAK MAX @ (1 μ s PULSE WIDTH, 1% DUTY CYCLE)
100W PEAK (10 μ s PULSE WIDTH, 10% DUTY CYCLE)
- INSERTION LOSS: ----- 2.0 dB MAX @ -10 dBm INPUT POWER
- RECOVERY TIME (3 dB): - 250 ns MAX @ 1000 W PEAK POWER
- LEAKAGE POWER: ----- +17 dBm MAX
- IMPEDANCE: ----- 50 Ω
- VSWR: ----- 1.5:1 MAX
- LIMITING THRESHOLD: - +5 dBm MIN (1 dB COMPRESSION)
- CONNECTORS: ----- SMA
- 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 \pm 10G, 5 ~ 500 Hz
(FIGURE 2, SHEET 1 OF 3, CURVE IV)
- SHOCK: ----- 15G, 11 \pm 1 ms
- HUMIDITY: ----- 100%
- ALTITUDE: ----- 70,000 FT

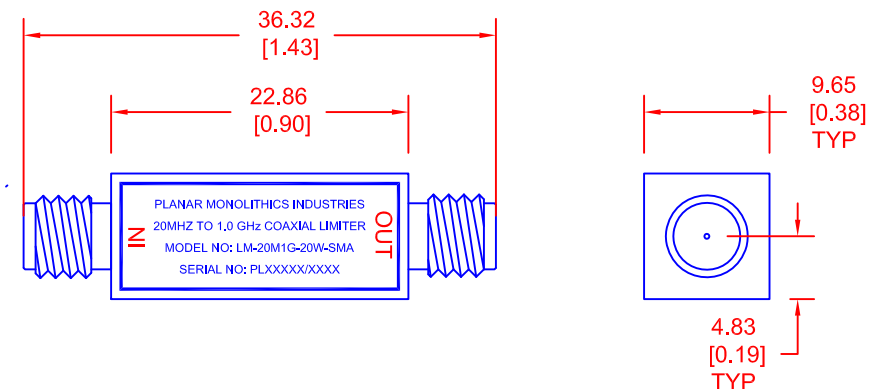
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	2/10/22	

MECHANICAL OUTLINE



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

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN		2/10/22		PRODUCT FEATURE	
REDAWN				LM-20M1G-20W-SMA	
ISSUED				20 MHz to 1.0 GHz Coaxial Limiter	
SIZE		FSCM NO.		DWG NO.	
A		05XQ0		PRELIMINARY	
SCALE		N:S		SHEET	
				1 OF 1	