

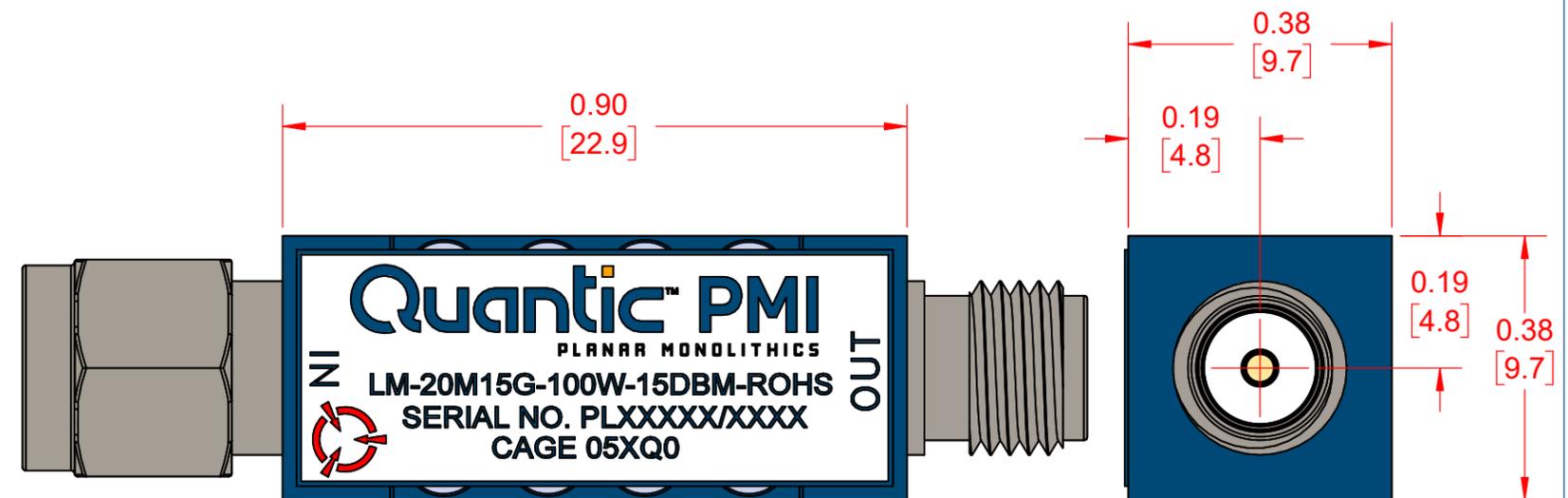
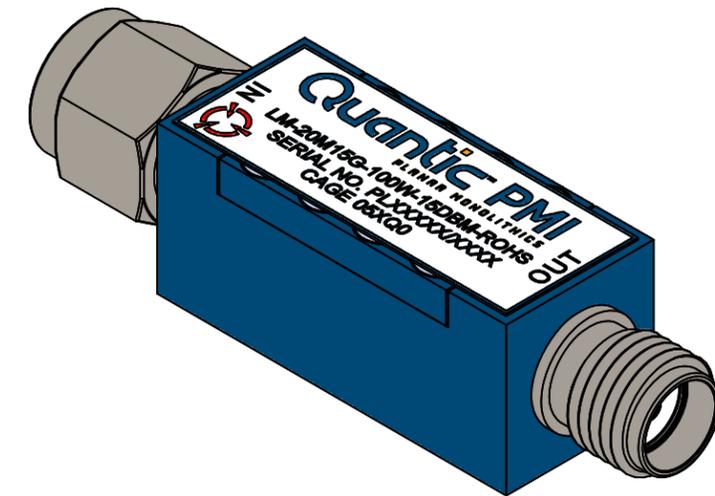
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	6/19/2025	

DESCRIPTION:

PMI MODEL LM-20M15G-100W-15DBM-ROHS 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. FOR ALL TEMPERATURES (-55°C TO 85°C), THE ENERGY INPUT HAS A LEAKAGE OF LESS THAN 15 dBm MAX. THIS MODEL HAS A LOW INSERTION LOSS OF 1.80 dB AND A TYPICAL RECOVERY TIME OF 100 ns.

SPECIFICATIONS:

- FREQUENCY RANGE:.....20.0 MHz TO 15.0 GHz
- RF POWER HANDLING:.....100W CW MAX @ -55°C TO +85°C
1 kW PEAK MAX @ +85°C (1 μs PULSE WIDTH, 0.1% DUTY CYCLE)
100 W (1 μs PULSE WIDTH, 1% DUTY CYCLE, 10 kHz)
100 W (10 μs PULSE WIDTH, 0.1% DUTY CYCLE, 100 Hz)
100 W (1 μs PULSE WIDTH, 0.1% DUTY CYCLE, 1 kHz)
100 W (40 μs PULSE WIDTH, 10 % DUTY CYCLE, 2.5 kHz)
- INSERTION LOSS:.....1.80 dB MAX @ -10 dBm INPUT POWER
- RECOVERY TIME:.....100 ns MAX @ 1 kW PEAK POWER
- LEAKAGE POWER:.....+15 dBm MAX AT 100W CW
- VSWR:.....2.0:1 MAX @ -10 dBm INPUT POWER
- LIMITING THRESHOLD (P1dB):.....+5 dBm MIN (1 dB COMPRESSION)
- CONNECTORS:.....INPUT: SMA MALE
OUTPUT: SMA FEMALE
- WEIGHT:.....0.705 oz [20g] MAX
- SIZE:.....(L) 0.90" X (W) 0.38" X (H) 0.38" MAX
[(L) 22.9mm X (W) 9.7mm X (H) 9.7mm 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:.....20g, 11 ± 1 ms
- HUMIDITY:.....100%
- ALTITUDE:.....70,000 FT

PMI CONFIDENTIAL AND PROPRIETARY

NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

<small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01</small>		APPROVALS DATE DRAWN 6/19/2025 V. PRATAP REDRAWN ISSUED		Quantic PMI <small>PLANAR MONOLITHICS</small> 7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 662-5019, FAX: (301) 662-1731 WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED	
		TITLE OUTLINE LM-20M15G-100W-15DBM-ROHS		SIZE FSCM NO. DWG NO. REV. B 05XQ0 27052300 A1	
		SCALE 4:1		SHEET 1 OF 1	