

**DESCRIPTION:**

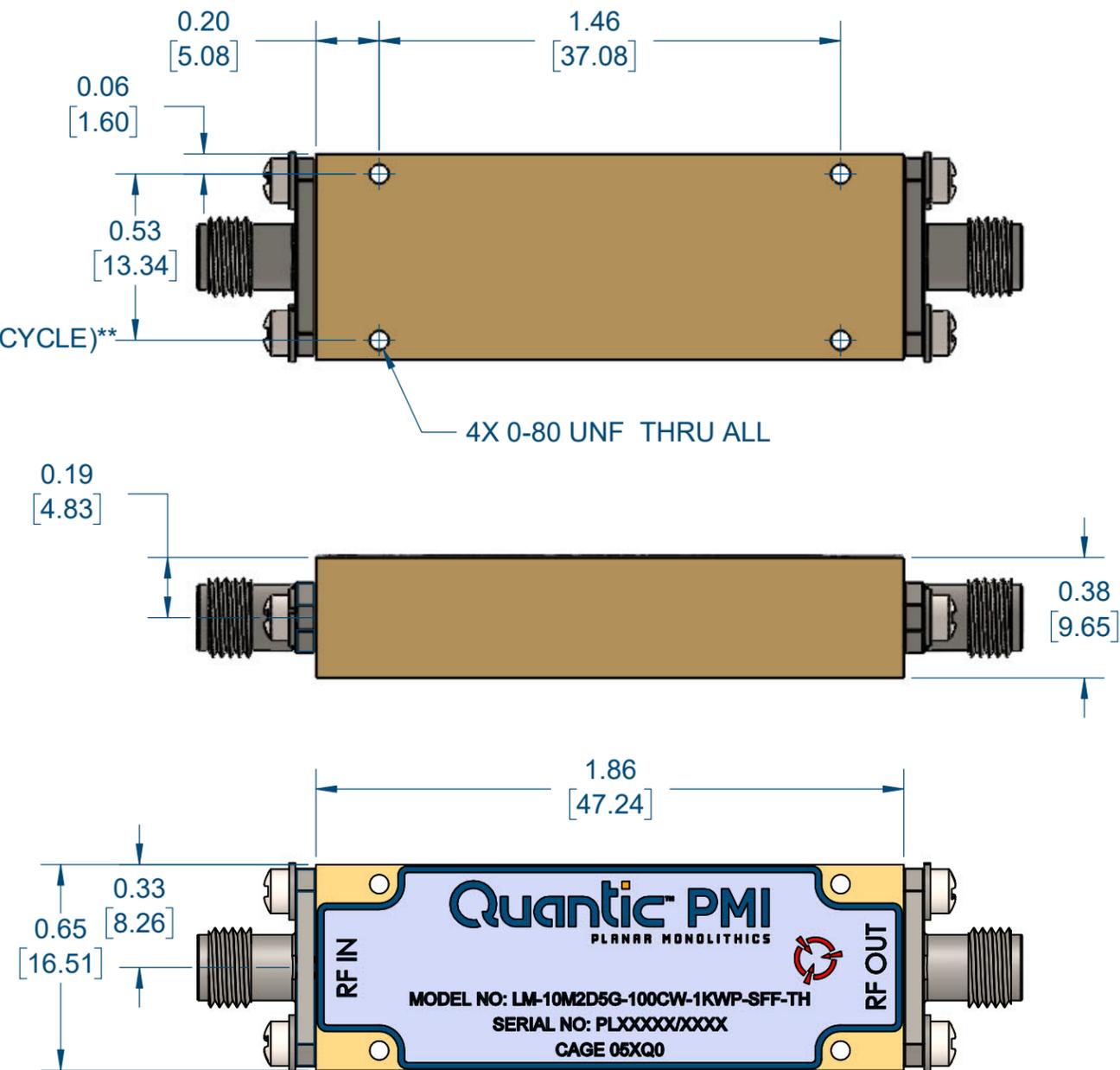
PMI MODEL: LM-10M2D5G-100CW-1KWP-SFF-TH IS A RF LIMITER THAT OPERATES IN THE 10 MHz TO 2.5 GHz FREQUENCY RANGE. THIS LIMITER CAN HANDLE 100W CW AND 1 kW PEAK (1% DUTY CYCLE, 1 us MAXIMUM PULSE WIDTH) INPUT POWER AND PROVIDES A MAXIMUM LEAKAGE OF +13 dBm AT 10 W CW INPUT. THIS MODEL HAS LOW INSERTION LOSS OF 0.8 dB AND A RECOVER TIME OF 2 us TYPICAL.

| ZONE | REV. | DESCRIPTION      | DATE      | APPROVED |
|------|------|------------------|-----------|----------|
|      | A1   | ORIGINAL RELEASE | 4/22/2025 |          |
|      |      |                  |           |          |

**SPECIFICATIONS:**

- FREQUENCY RANGE:..... 10 MHz TO 2.5 GHz
- INSERTION LOSS:..... 0.8 dB MAX
- VSWR:..... 1.3:1 MAX (@ -10 dBm INPUT POWER)
- IMPEDANCE:..... 50Ω
- INPUT POWER:..... 100 W CW MAX @ -55°C TO +85°C\*  
1 kW PEAK MAX (1 μs PULSE WIDTH, 1% DUTY CYCLE)\*\*
- MAXIMUM FLAT LEAKAGE:..... +13 dBm MAX @ 10W CW, 0 dBm MIN
- RECOVERY TIME :..... 2 us TYP
- CONNECTORS:..... SMA FEMALE
- FINISH:..... GOLD PLATED

\* POWER RATING AT 25°C: DERATED LINEARLY TO ZERO @ 150°C  
 HIGH POWER TEST DURATION: FULL RATED POWER FOR 10 SECONDS  
 \*\* EXTERNAL DC BLOCKS ARE REQUIRED FOR PROPER FUNCTION



**ENVIRONMENTAL RATINGS:**

- TEMPERATURE:..... -55°C TO +85°C (OPERATING)  
-60°C TO +100°C (STORAGE)
- STABILIZATION BAKE:..... MIL-STD-883, METHOD 1008, TEST COND. B
- THERMAL CYCLE:..... MIL-STD-883, METHOD 1010, TEST COND. B
- CONSTANT ACCELERATION:..... MIL-STD-883, METHOD 2001, A (Y1 AXIS)
- EXTERNAL VISUAL:..... MIL-STD-883, METHOD 2009

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

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|   |  |           |          |  |              |
|---|--|-----------|----------|--|--------------|
| APPROVALS<br>DRAWN<br><b>M.LAULIS</b><br>REDRAWN<br>ISSUED  |  | DATE      |          | TITLE<br>OUTLINE<br>LM-10M2D5G-100CW-1KWP-SFF-TH |              |
|   |  | 4/22/2025 |          |  |              |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES ARE:<br>FRACTIONS DECIMALS ANGLES<br>± .XX ± 0.02 ±<br>.XXX ± 0.01 |  | SIZE      | FSCM NO. | DWG NO.  | REV.         |
|   |  | B         | 05XQ0    | 27051360   | A1           |
|   |  | SCALE 2:1 |          |  | SHEET 1 OF 1 |

**Quantic PMI**  
 PLANAR MONOLITHICS

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