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

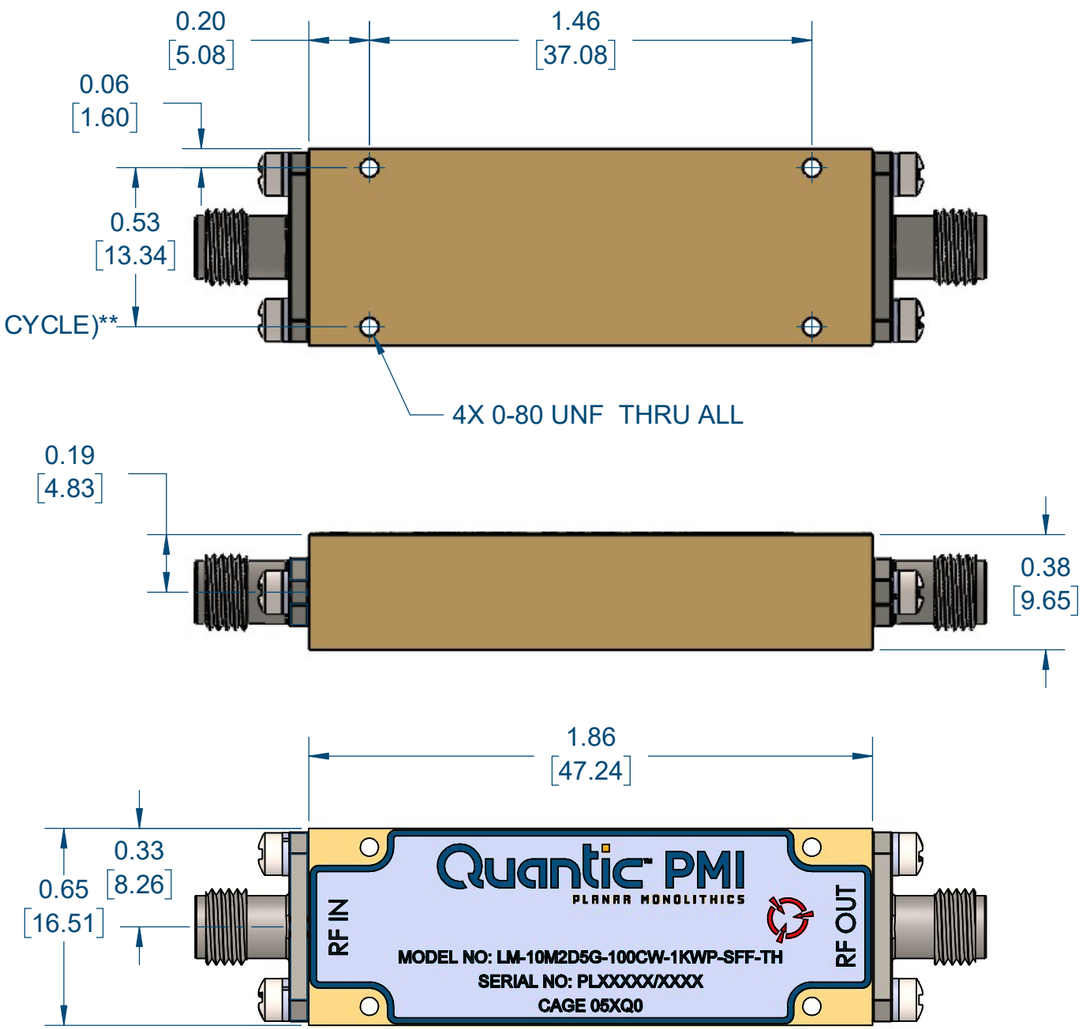
DESCRIPTION:

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.

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

PMI CONFIDENTIAL AND PROPRIETARY

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ± DECIMALS .XX ± 0.02 .XXX ± 0.01 ANGLES ±

APPROVALS	DATE
DRAWN M.LAULIS	4/22/2025
REDRAWN	
ISSUED	

Quantic PMI
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ISO 9001 CERTIFIED

TITLE: OUTLINE
LM-10M2D5G-100CW-1KWP-SFF-TH

SIZE	FSCM NO.	DWG NO.	REV.
B	05XQ0	27051360	A1

SCALE 2:1 SHEET 1 OF 1