| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
|---|---|---|---|---|
| | 1 | PRELIMINARY | 10/27/2026 | |
| | | | | |
| | | | | |

## DESCRIPTION:

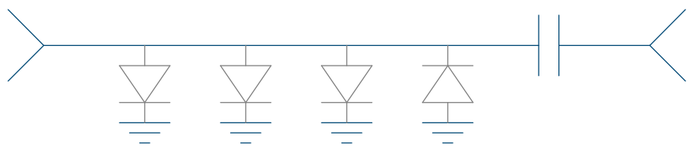
PMI MODEL: LM-0D01M18G-100W-17DBM-SMF-HERM-ROHS IS A HIGH POWER LIMITER THAT OPERATES OVER THE 0.01 MHz TO 18.0 GHz FREQUENCY RANGE. THIS MODEL IS CAPABLE OF HANDLING AN INPUT OF 100 WATTS CW.

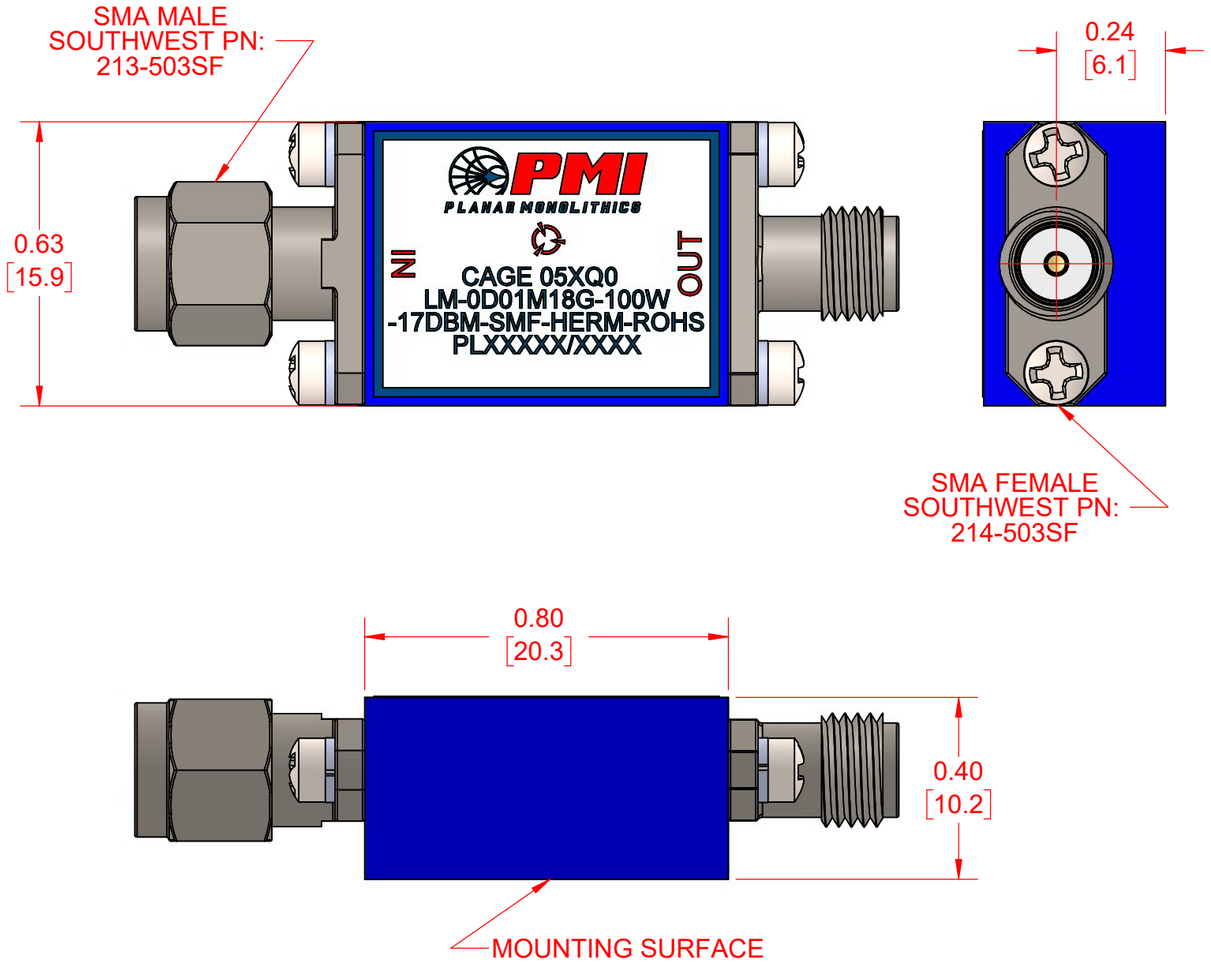
## SPECIFICATIONS:

- FREQUENCY RANGE: ——— 0.01 MHz TO 18.0 GHz
- RF INPUT POWER: ——— +50 dBm CW (100W) MAX (0.01 MHz TO 11.0 GHz)
  +20 dBm CW (0.1W) MAX (11.0 GHz TO 18.0 GHz)
- RF INPUT PEAK POWER: ——— +57 dBm (500W) MAX (0.01 MHz TO 11 GHz)
  4% DC 125 us PW
  N/A (11 GHz TO 18 GHz)
- RF LEAKAGE (FLAT): ——— +17 dBm MAX
- SPIKE LEAKAGE: ——— 1000 ergs
- RECOVERY TIME: ——— 100 ns MAX
- INSERTION LOSS @ -5 dBm : ——— 1 dB MAX (50 kHz to 10 MHz)
  2 dB MAX (10 MHz to 11 GHz)
  3.5 dB MAX (11 GHz to 18 GHz)
- VSWR @ -5 dBm: ——— 2.2:1 MAX (50 kHz to 10 MHz)
  2.0:1 MAX (10 MHz to 11 GHz)
  2.1:1 MAX (11 GHz to 18 GHz)
- CONNECTORS: ——— SMA MALE/FEMALE (REMOVEABLE)
- SIZE (EXCLUDING CONNECTORS): ——— 0.625" x 0.80" x 0.40"
  15.88mm x 20.32mm x 10.16mm
- FINISH: ——— PAINTED BLUE WITH MIL-DTL-53022
  EPOXY PRIMER AND MIL-PRF-22750
  TYPE II PAINT
- MARKING: ——— ATTACHED WITH STICK ON LABEL
- SEAL: ——— HERMETICALLY SEALED
  IAW MIL-STD-883, METHOD 1014
- ROHS/REACH: ——— COMPLIANT
- WEIGHT: ——— 2.0 OZ MAX
- CONTAINER MATERIALS: ——— HOUSING: 6061-T6 ALUMINIUM
  COVER: 4047 ALUMINIUM

*DC BLOCK PRESENT ON LIMITER OUTPUT (NO DC BLOCK ON INPUT)

SIMPLIFIED SCHEMATIC:






## ENVIRONMENTAL RATINGS:

- TEMPERATURE: ——— -55°C TO +85°C (OPERATING)
  -62°C TO +95°C (STORAGE)
- TEMPERATURE CYCLE: ——— MIL-STD-883, METHOD 1010, COND. A

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 A. SABADOS | 10/27/2026 |
| REDRAWN | |
| ISSUED | |

PMI
PLANAR MONOLITHICS
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WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM
ISO 9001 CERTIFIED

| TITLE | | | |
|---|---|---|---|
| PRODUCT FEATURE | | | |
| LM-0D01M18G-100W-17DBM-SMF-HERM-ROHS | | | |
| SIZE | FSCM NO. | DWG NO. | REV. |
| B | 05XQ0 | PRELIMINARY | 1 |
| SCALE 2:1 | | SHEET 1 OF 1 | |