

## DESCRIPTION

PMI MODEL: DD-10M18G-ZBS-SMF IS A LOW NOISE TUNNEL DIODE DETECTOR OPERATING OVER THE 10 MHZ TO 18.0 GHz FREQUENCY RANGE.

| REVISIONS |      |             |        |          |
|-----------|------|-------------|--------|----------|
| ZONE      | REV. | DESCRIPTION | DATE   | APPROVED |
|           | -    | PRELIMINARY | 9/1/19 |          |
|           |      |             |        |          |
|           |      |             |        |          |

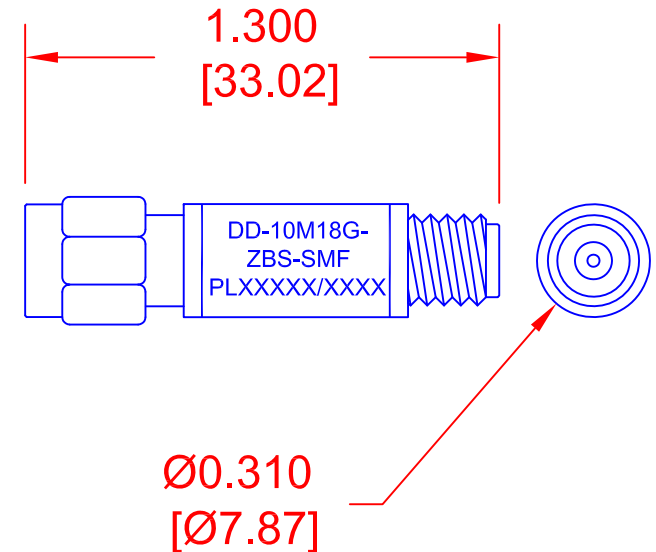
## SPECIFICATIONS

- FREQUENCY RANGE: ----- 10 MHz to 18.0 GHz
- SENSITIVITY: -----  $0.5 \pm 0.05$  mV/ $\mu$ W
- POLARITY: ----- NEGATIVE
- MAX INPUT POWER: ----- 100 mW
- VSWR: ----- 1.5:1 MAX
- FLATNESS: -----  $\pm 0.5$  dB
- CAPACITANCE: ----- 30 pf
- CONNECTORS IN/OUT: ----- SMA MALE/SMA FEMALE
- FINISH: ----- PAINTED BLUE

## LABEL



## MECHANICAL OUTLINE



## ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -54 °C TO +110 °C (OPERATING)  
-55 °C TO +100 °C (STORAGE)
- HUMIDITY: ----- MIL-STD-202, METHOD 103B COND. B
- SHOCK: ----- MIL-STD-202, METHOD 213B COND. G (50g, 11 ms)
- VIBRATION: ----- MIL-STD-202, METHOD 204D COND. D (20 g, 10 - 2000 MHz)
- ALTITUDE: ----- MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: ----- MIL-STD-202, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS  
ARE IN INCHES (mm)  
TOLERANCES:  
X.XX  $\pm 0.020$   
X.XXX  $\pm 0.010$

**PMI CONFIDENTIAL AND PROPRIETARY**

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ISO 9001 CERTIFIED



|                          |  |                                                   |  |       |  |          |  |             |  |              |  |
|--------------------------|--|---------------------------------------------------|--|-------|--|----------|--|-------------|--|--------------|--|
|                          |  | TITLE<br><br>PRODUCT FEATURE<br>DD-10M18G-ZBS-SMF |  |       |  |          |  |             |  |              |  |
| APPROVALS                |  |                                                   |  |       |  |          |  | DATE        |  |              |  |
| DRAWN<br><i>M. Berry</i> |  |                                                   |  |       |  |          |  | 02/16/16    |  |              |  |
| REDRAWN<br><i>EW</i>     |  | 3/1/19                                            |  | SIZE  |  | FSCM NO. |  | DWG NO.     |  | REV.         |  |
|                          |  |                                                   |  | A     |  | 05XQ0    |  | PRELIMINARY |  | -            |  |
| ISSUED                   |  |                                                   |  | SCALE |  | N:S      |  |             |  | SHEET 1 OF 1 |  |