

DESCRIPTION

PMI MODEL NO. PDC-416-10C-SFF-50W IS A DIRECTIONAL COUPLER THAT OPERATES OVER THE FREQUENCY RANGE OF 4.0 TO 16.0 GHz. IT HAS A MAXIMUM INSERTION LOSS OF 0.5 dB (EXCLUDING COUPLING LOSS 0.46 dB) AND A MAXIMUM COUPLING FACTOR OF 10 ± 0.7 dB. THIS MODEL IS OUTFITTED WITH SMA FEMALE CONNECTORS.

SPECIFICATIONS

- FREQUENCY RANGE: 4.0 TO 16.0 GHz
- INSERTION LOSS: 0.5 dB MAX (EXCLUDING COUPLING LOSS 0.46 dB)
- COUPLING FACTOR: 10 ± 0.7 dB MAX
- COUPLING SENSITIVITY: ± 0.7 dB MAX
- DIRECTIVITY: 15 dB MIN
- VSWR: PRIMARY: 1.40:1 MAX
SECONDARY: 1.40:1 MAX
- POWER HANDLING*: INCIDENT: 50 WATTS MAX
REFLECTED: 2 WATTS MAX
- IMPEDANCE: 50 OHMS
- CONNECTORS: SMA FEMALE
- FINISH: PAINTED BLUE

*POWER HANDLING GUARANTEED WHEN LOAD'S VSWR WITHIN 1.50:1

ENVIRONMENTAL RATINGS

- TEMPERATURE: -55 °C TO +85 °C (OPERATING)
-65 °C TO +125 °C (STORAGE)
- HUMIDITY: UP TO 95%, NON-CONDENSING (OPERATING)
- SHOCK: MIL-STD-202, METHOD 213B COND. B
- VIBRATION: MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

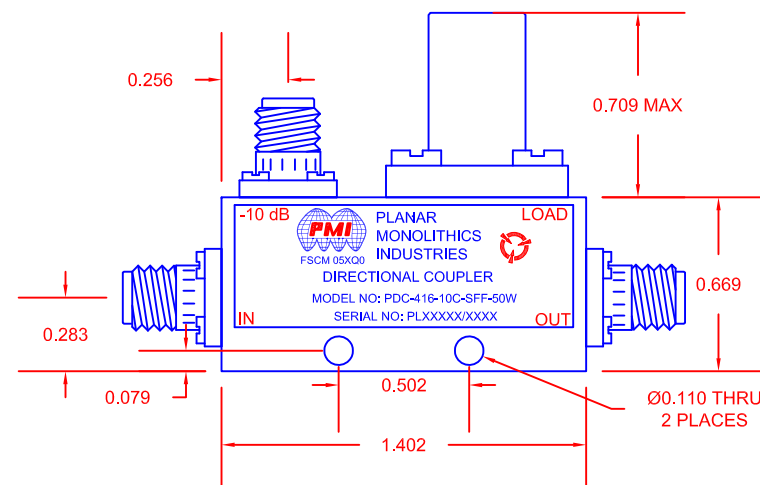
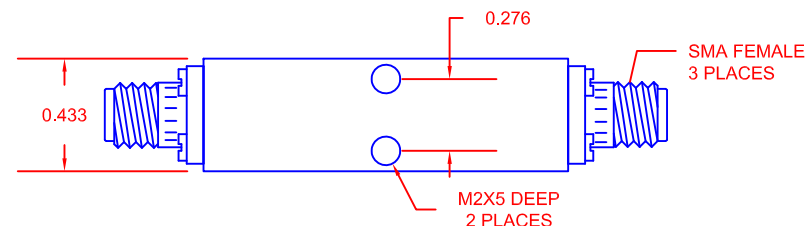
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

ALL DIMENSIONS
ARE IN INCHES [mm]
TOLERANCES:
X.XX ± 0.020
X.XXX ± 0.010

| REVISIONS | | | | |
|-----------|------|-------------|-----------|----------|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| | - | PRELIMINARY | 2/28/2020 | |
| | | | | |
| | | | | |

MECHANICAL OUTLINE



PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD

FREDERICK, MARYLAND 21704 USA

TEL: (301)-662-5019, FAX: (301)-662-1731

WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com

ISO 9001 CERTIFIED



| | | | | | | |
|--------------------|----------------|---|-------------------|----------------------------|----------|--|
| | | TITLE PRODUCT FEATURE PDC-416-10C-SFF-50W | | | | |
| APPROVALS | DATE | | | | | |
| DRAWN <i>EW</i> | <i>2/28/20</i> | | | | | |
| REDRAWN | | SIZE A | FSCM NO. 05XQ0 | DWG NO. PRELIMINARY | REV - | |
| ISSUED | | SCALE N:S | | SHEET 1 OF 1 | | |