

DESCRIPTION:

PMI MODEL NUMBER PE10-15-220-3R0-15-15-SFF IS A LOW NOISE AMPLIFIER THAT PROVIDES 15dB OF GAIN, A OP1dB OF +15 AND A NOISE FIGURE OF 3.5dB. A SINGLE VOLTAGE OF +12 TO +15VDC IS REQUIRED AND THE UNIT IS SUPPLIED HAVING SMA FEMALE CONNECTORS IN A HOUSING THAT MEASURES 0.75" x 0.43" x 0.31".

SPECIFICATIONS:

- FREQUENCY RANGE:..... 2.0 TO 20.0 GHz
- GAIN:..... 15 dB TYP.
- GAIN FLATNESS:..... ±1.5 dB TYP.
- NOISE FIGURE:..... 3.5 dB TYP.
- OP1dB:..... 15 dB TYP.
- VSWR (INPUT/OUTPUT):..... 2.0:1 / 2.0:1 MAX
- DC VOLTAGE SUPPLY:..... +12 TO +15 VDC TYP.
- DC CURRENT DRAW:..... 80 mA TYP.
- CONNECTORS:..... SMA FEMALE (X2)
- FINISH:..... GOLD PLATED

FEATURES:

- INTERNAL VOLTAGE REGULATION
- UNCONDITIONAL STABILITY

AVAILABLE OPTIONS:

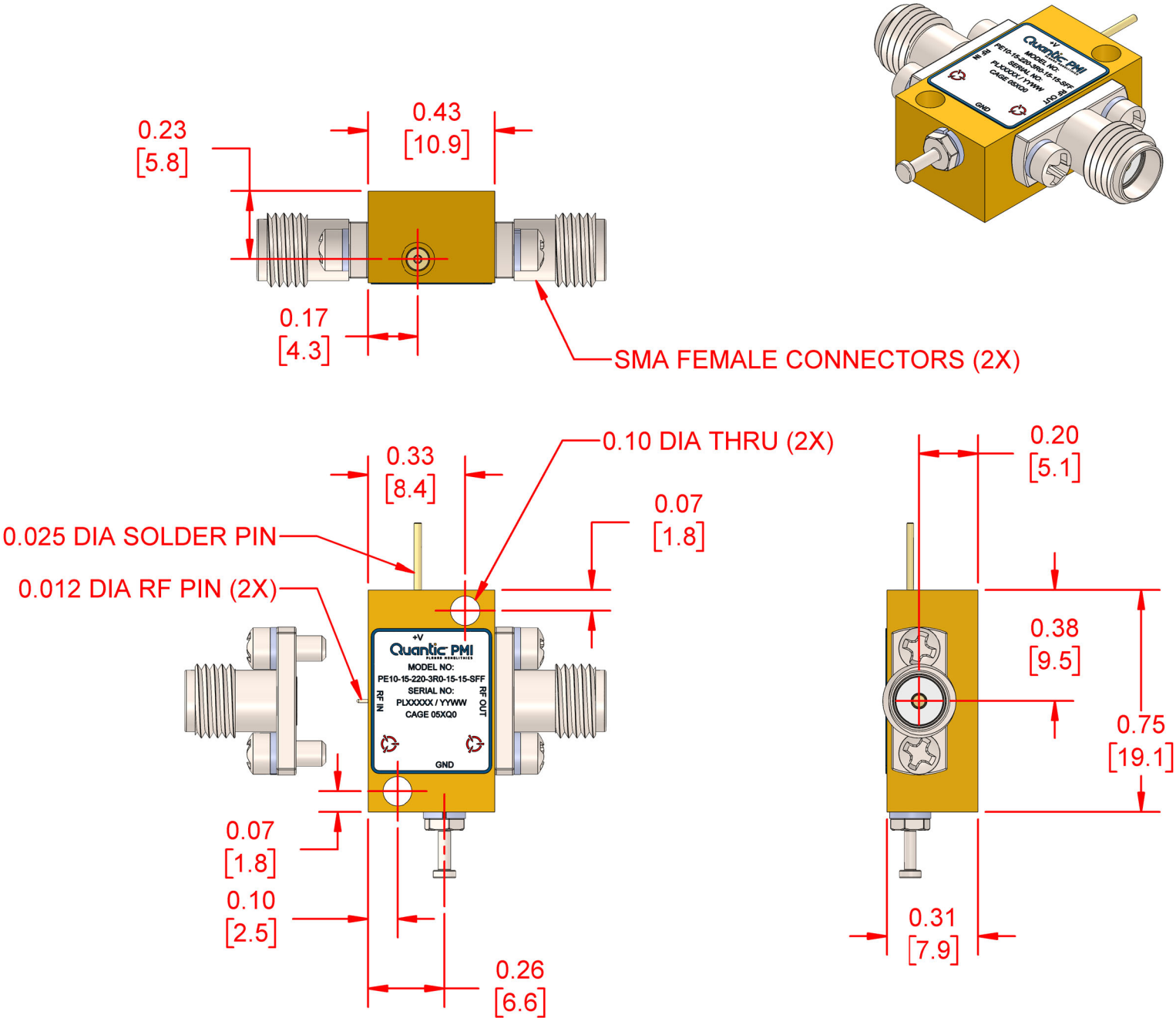
- VARIOUS PACKAGE TYPES
- VARIOUS CONNECTOR TYPES
- TEMPERATURE COMPENSATION
- HERMETIC SEALING
- GAIN AND PHASE MATCHING
- MIL-STD-883 SCREENING AVAILABLE

ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -40°C TO +85°C (OPERATING)  
-55°C TO +125°C (AVAILABLE)
- HUMIDITY:..... MIL-STD-202, METHOD 103B COND. B
- SHOCK:..... MIL-STD-202, METHOD 213B COND. B
- ALTITUDE:..... MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202, METHOD 107D COND. A

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

| ZONE | REV. | DESCRIPTION      | DATE    | APPROVED |
|------|------|------------------|---------|----------|
|      | A1   | ORIGINAL RELEASE | 3/15/15 |          |
|      |      |                  |         |          |
|      |      |                  |         |          |



PMI CONFIDENTIAL AND PROPRIETARY

|   |             |  |                   |                             |   |   |   |   |  |             |  |         |  |  |  |  |  |  |  |  |
|---|-------------|--|-------------------|-----------------------------|---|---|---|---|--|-------------|--|---------|--|--|--|--|--|--|--|--|
|   |             |  |                   |                             | <div>Quantic PMI</div> <div>PLANS MONOLITHICS</div> <div>7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA</div> <div>TEL: (301) 662-5019. FAX: (301) 662-1731</div> <div>WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM</div> <div>ISO 9001 CERTIFIED</div> |   |   |   |  |             |  |         |  |  |  |  |  |  |  |  |
|   |             |  | APPROVALS         |                             | DATE  |   | TITLE<br>OUTLINE<br>PE10-15-220-3R0-15-15-SFF |   |  |             |  |         |  |  |  |  |  |  |  |  |
|   |             |  | DRAWN<br>K. MASON |                             | 12/20/2024  |   |   |   |  |             |  |         |  |  |  |  |  |  |  |  |
| <div>UNLESS OTHERWISE SPECIFIED<br/>DIMENSIONS ARE IN INCHES</div> <div>TOLERANCES ARE:</div> <table><tr><td>FRACTIONS</td><td>DECIMALS</td><td>ANGLES</td></tr><tr><td>±</td><td>.XX ± 0.02</td><td>±</td></tr><tr><td></td><td>.XXX ± 0.01</td><td></td></tr></table> |             |  | FRACTIONS         | DECIMALS                    | ANGLES  | ± | .XX ± 0.02                                    | ± |  | .XXX ± 0.01 |  | REDRAWN |  |  |  | SIZE<br>B      FSCM NO.      DWG NO.      REV.<br>B      05XQ0                      27014202                      A1 |  |  |  |  |
|   |             |  | FRACTIONS         | DECIMALS                    | ANGLES  |   |   |   |  |             |  |         |  |  |  |  |  |  |  |  |
|   |             |  | ±                 | .XX ± 0.02                  | ±   |   |   |   |  |             |  |         |  |  |  |  |  |  |  |  |
|   | .XXX ± 0.01 |  |                   |                             |   |   |   |   |  |             |  |         |  |  |  |  |  |  |  |  |
| ISSUED  |             |  |                   | SCALE 2:1      SHEET 1 OF 1 |   |   |   |   |  |             |  |         |  |  |  |  |  |  |  |  |

Quantic PMI

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