

DESCRIPTION:

PMI MODEL NUMBER: PEAFS3-14-0R2535R0-6R5-23-12-292MF IS AN 8 TO 18 GHz LOW NOISE AMPLIFIER. THIS AMPLIFIER IS SUPPLIED IN HOUSING THAT CAN BE USED AS AN SMA CONNECTORIZED OR A SURFACE MOUNT COMPONENT.

| ZONE | REV. | DESCRIPTION      | DATE      | APPROVED |
|------|------|------------------|-----------|----------|
|      | A1   | ORIGINAL RELEASE | 4/4/2023  |          |
|      | A2   | ECN # 24-0198    | 7/24/2024 |          |
|      |      |                  |           |          |

SPECIFICATIONS:

- FREQUENCY RANGE:..... 8 TO 18 GHz
  - GAIN:..... 13 dB ±2 dB MAX
  - GAIN FLATNESS:..... ±1 dB MAX
  - NOISE FIGURE:..... 4 dB TYP, 5 dB MAX
  - OP1dB:..... 24 dBm MIN
  - VSWR (INPUT/OUTPUT):..... 2.0:1 MAX
  - INPUT POWER:..... +25 dBm MAX
  - DC VOLTAGE SUPPLY:..... +10V FIXED @ Iq = 300 mA TYP\*
  - CONNECTORS:..... SMA MALE (IN) FEMALE (OUT)
  - FINISH:..... GOLD PLATED
- \*NO INTERNAL VOLTAGE REGULATION OR REVERSE PROTECTION

FEATURES:

UNCONDITIONAL STABILITY

AVAILABLE OPTIONS:

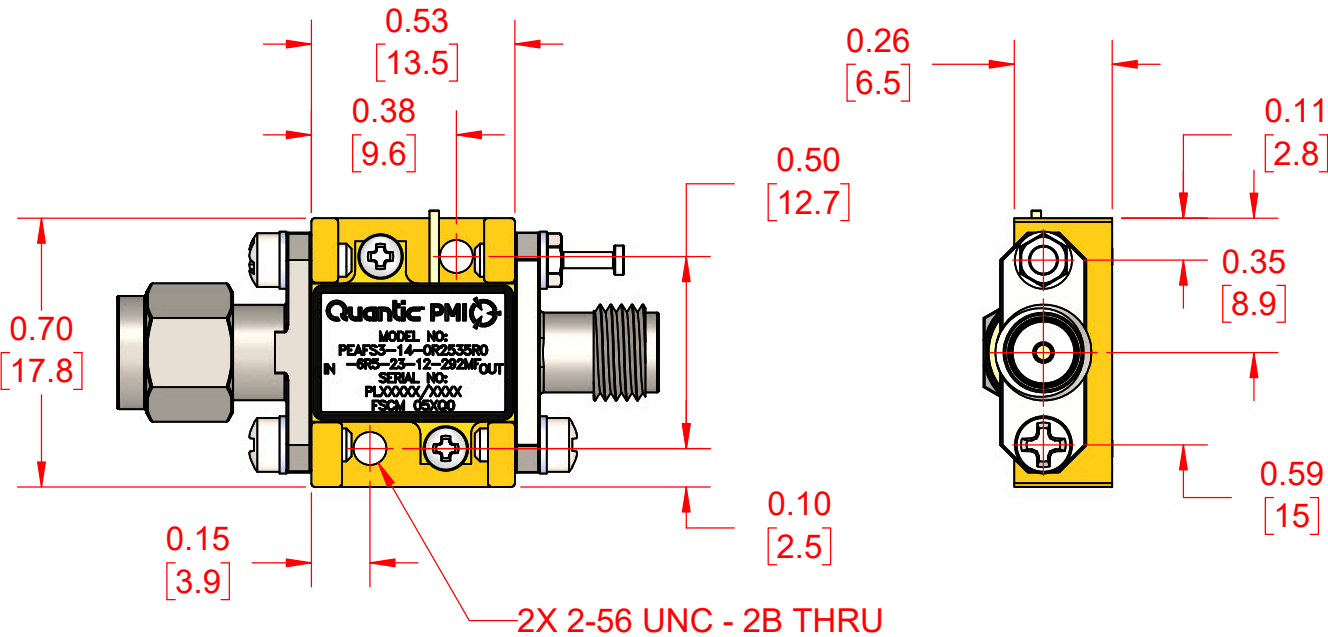
- VARIOUS PACKAGE TYPES
- VARIOUS CONNECTOR TYPES
- TEMPERATURE COMPENSATION
- GAIN AND PHASE MATCHING
- MIL-STD-883 SCREENING AVAILABLE

ENVIRONMENTAL RATINGS:

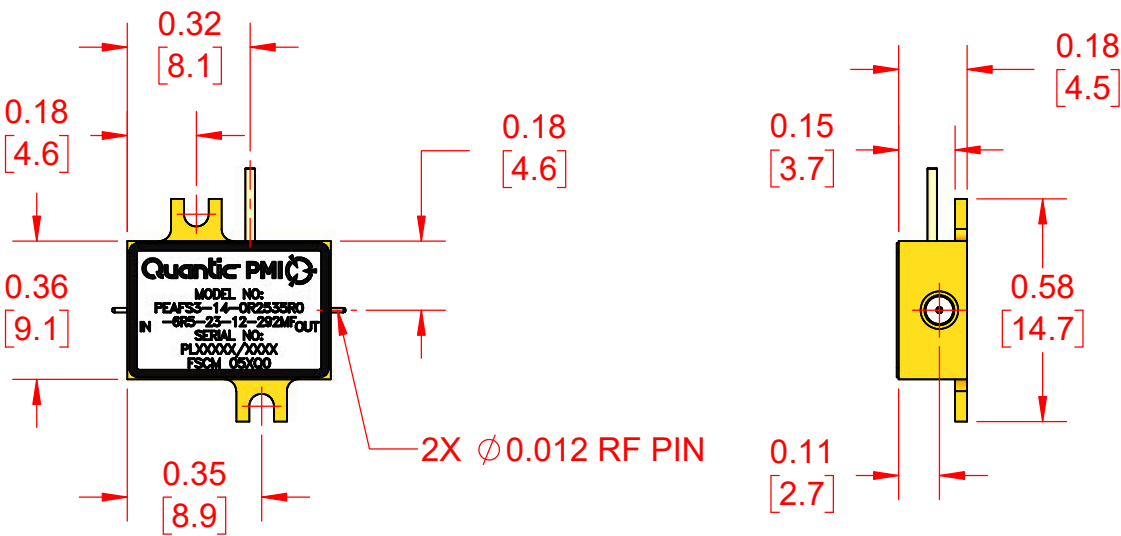
- TEMPERATURE:..... -40°C TO +85°C (OPERATING)  
-40°C TO +100°C (STORAGE)
- HUMIDITY:..... MIL-STD-202F, METHOD 103B COND. B
- SHOCK:..... MIL-STD-202F, METHOD 213B COND. B
- ALTITUDE:..... MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202F, METHOD 107D COND. A

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

HOUSING WITH CARRIER



HOUSING WITHOUT CARRIER (SURFACE MOUNT)



PMI CONFIDENTIAL AND PROPRIETARY

|                                                                                                                                                                     |  |  |                   |  |                                                                                                                                                                                                                                                                  |          |                                    |      |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------|------|----|
| <div></div>                                                                                                                                                         |  |  |                   |  | <div>Quantic PMI</div> <div>PLANAR 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                   |      |    |
|                                                                                                                                                                     |  |  | DRAWN<br>J ESCANO |  | 4/4/2023                                                                                                                                                                                                                                                         |          |                                    |      |    |
|                                                                                                                                                                     |  |  | REDRAWN           |  |                                                                                                                                                                                                                                                                  |          | PEAFS3-14-0R2535R0-6R5-23-12-292MF |      |    |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES ARE:<br>FRACTIONS    DECIMALS    ANGLES<br>±                .XX ± 0.02        ±<br>.XXX ± 0.01 |  |  | ISSUED            |  | SIZE                                                                                                                                                                                                                                                             | FSCM NO. | DWG NO.                            | REV. |    |
|                                                                                                                                                                     |  |  |                   |  | B                                                                                                                                                                                                                                                                | 05XQ0    | 26946200                           |      | A2 |
|                                                                                                                                                                     |  |  |                   |  | SCALE 2:1                                                                                                                                                                                                                                                        |          | SHEET 1 OF 1                       |      |    |