

PMI MODEL NUMBER PEC-30-0R2520R0-5R0-22-12-SFF IS A 0.25 TO 20.0 GHz LOW NOISE AMPLIFIER. THIS AMPLIFIER IS SUPPLIED IN OUR STANDARD PE2 HOUSING THAT CAN BE USED AS A SMA CONNECTORIZED OR A SURFACE MOUNT COMPONENT.

| ZONE | REV. | DESCRIPTION      | DATE       | APPROVED |
|------|------|------------------|------------|----------|
|      | A1   | ORIGINAL RELEASE | 11/27/2017 |          |
|      | C2   | ECN # 19-0005    | 1/8/2019   |          |
|      | C3   | ECN # 23-0007    | 1/5/2023   |          |

**SPECIFICATIONS:**

- FREQUENCY RANGE:..... 0.25 TO 20.0 GHz
- GAIN:..... 26.5 dB TYP
- GAIN FLATNESS:..... ±1.5 dB MAX (\*) @ ANY OPERATING TEMP
- NOISE FIGURE:..... 5.5 dB TYP
- OP1dB:..... 22 dBm MIN
- VSWR (INPUT/OUTPUT):..... 1.7:1 MAX
- DC VOLTAGE SUPPLY:..... +12 TO +15 VDC @ 400 mA TYP
- CONNECTORS:..... SMA FEMALE
- FINISH:..... GOLD PLATED

(\*) NOISE FIGURE ONLY VALID ABOVE 1 GHz

**FEATURES:**

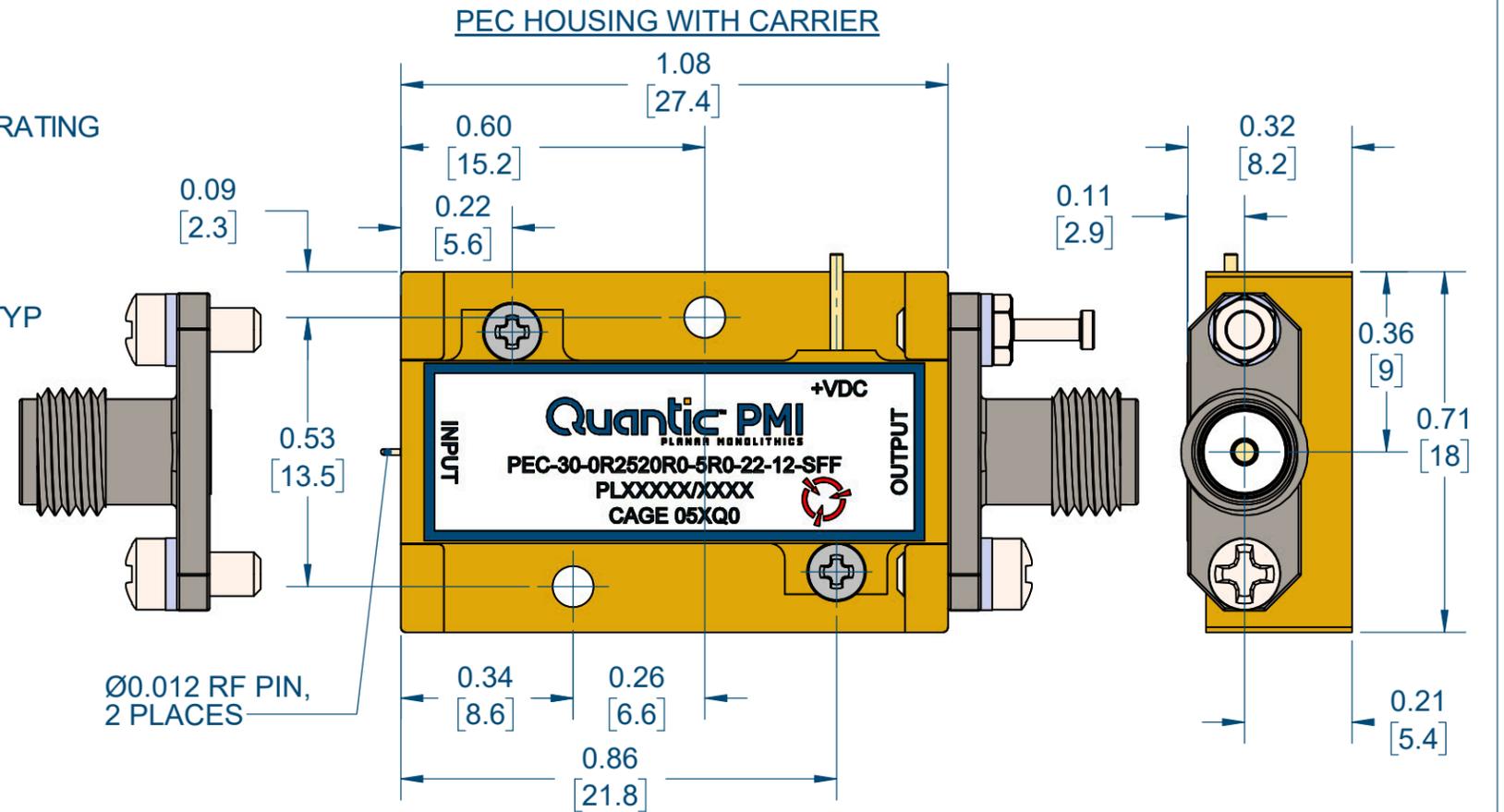
- INTERNAL VOLTAGE REGULATION
- UNCONDITIONAL STABILITY

**AVAILABLE OPTIONS:**

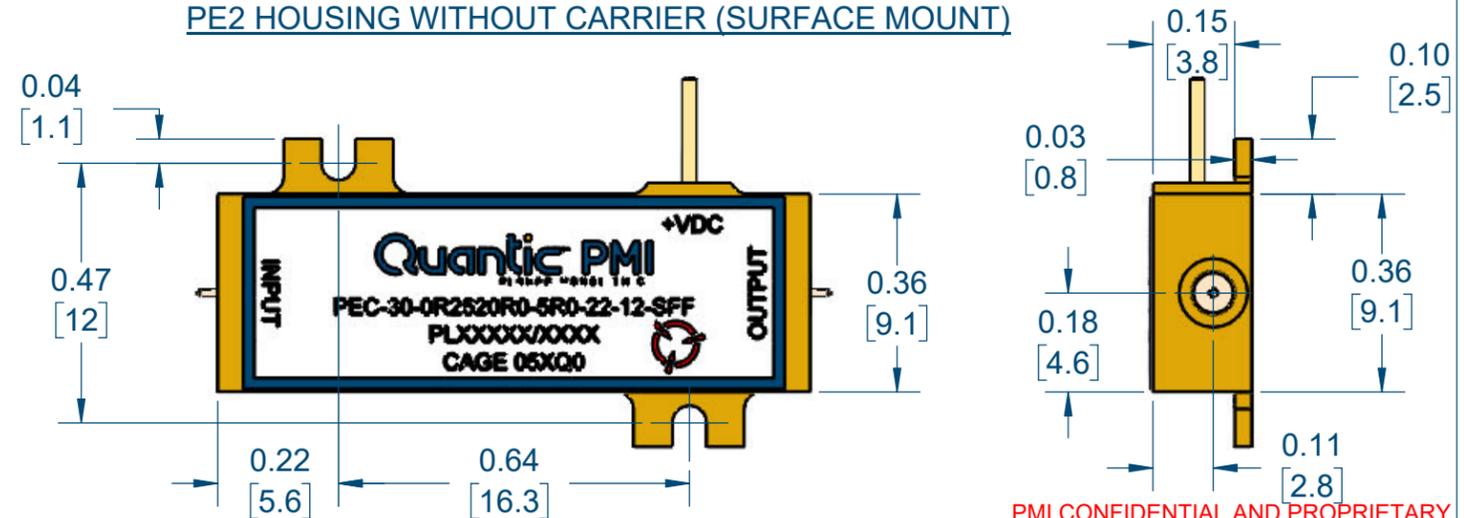
- VARIOUS PACKAGE TYPES
- VARIOUS CONNECTOR TYPES
- TEMPERATURE COMPENSATION
- GAIN AND PHASE MATCHING
- MIL-STD-883 SCREENING AVAILABLE

**ENVIRONMENTAL RATINGS:**

- TEMPERATURE:..... -54°C TO +85°C (OPERATING)  
..... -57°C TO +100°C (STORAGE)
- 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



PE2 HOUSING WITHOUT CARRIER (SURFACE MOUNT)



PMI CONFIDENTIAL AND PROPRIETARY

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

|  |  |                 |  |  |                |
|--|--|-----------------|--|--|----------------|
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES ARE:<br>FRACTIONS DECIMALS ANGLES<br>± .XX ± 0.02 ±<br>XXX ± 0.01 |  | APPROVALS DATE  |  | <br>7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA<br>TEL: (301) 662-5019, FAX: (301) 662-1731<br>WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM<br>ISO 9001 CERTIFIED |                |
| DRAWN SPH  |  | DATE 11/27/2017 |  | TITLE OUTLINE  |                |
| REDRAWN  |  |                 |  | PEC-30-0R2520R0-5R0-22-12-SFF  |                |
| ISSUED   |  |                 |  | SIZE B   | FSCM NO. 05XQ0 |
|  |  |                 |  | DWG NO. 27033840   | REV. C3        |
|  |  |                 |  | SCALE 3:1  | SHEET 1 OF 1   |