

DESCRIPTION:

PMI Model Number: PEC4-16-50M18G-4R0-19-15-SFF is a 50 MHz to 18.0 GHz compact amplifier. This amplifier is supplied in our standard PEC4 housing. This model provides the following performance. Data is available upon request.

SPECIFICATIONS:

- Frequency Range: 0.05 to 18.0 GHz
- Gain: +14 dB Min, 19 dB Max
- Gain Flatness: ± 2.0 dB Max
- Noise Figure: 4.0 dB Typ
- OP1dB: +19 dBm Min
- VSWR Input: 2.0:1 Max
- VSWR Output: 2.0:1 Max
- DC Voltage Supply: +12 to +15 VDC
- DC Current Draw: 200 mA Max
- Maximum Input: +23 dBm CW
- Connectors In/Out: SMA Female
- Finish: Gold Plated

FEATURES:

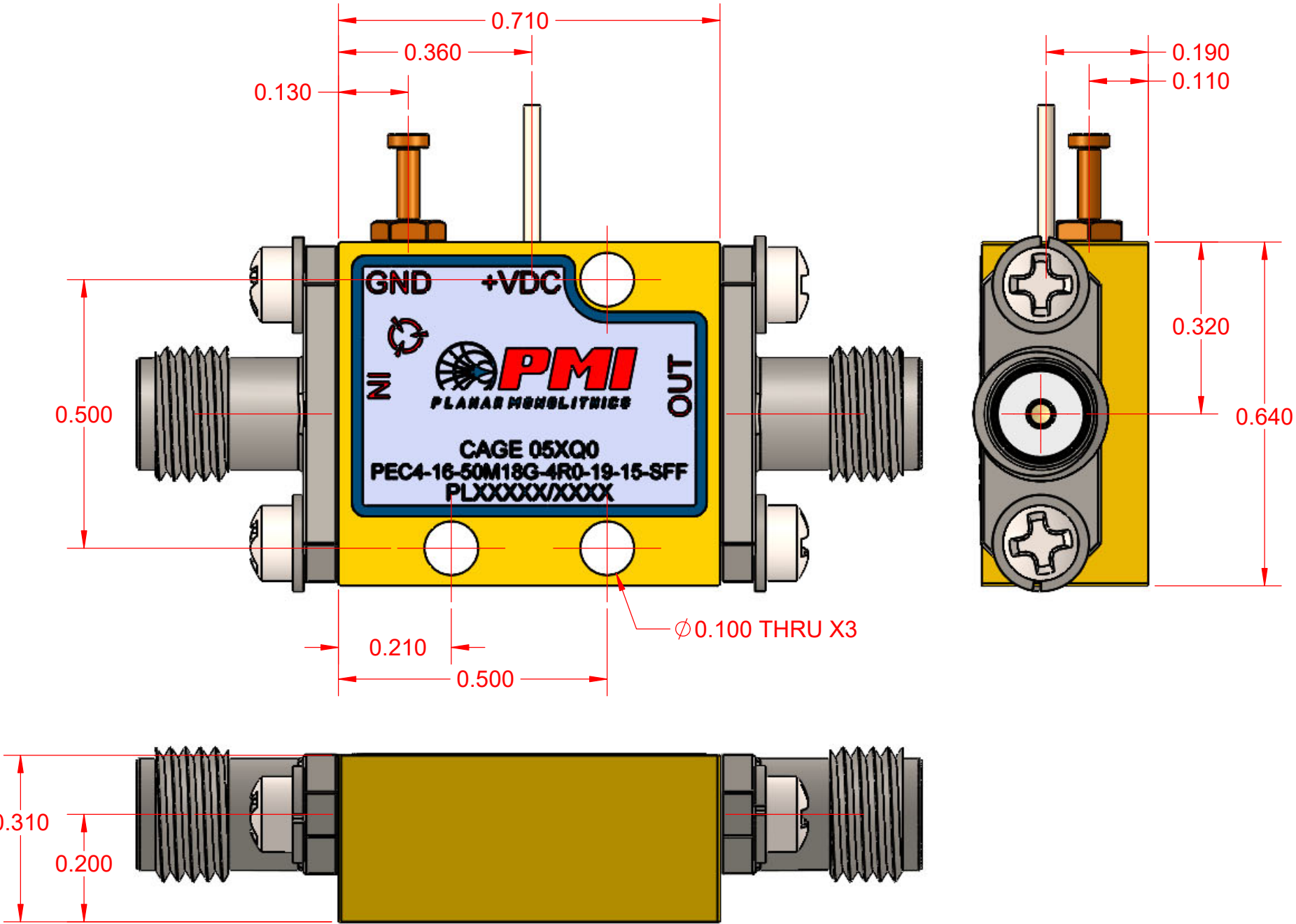
- Internal Voltage Regulation
- Unconditional Stability
- Input Limiter

ENVIRONMENTAL RATINGS:

- Temperature: -40 °C to +75 °C (Operating)  
-65 °C +110 °C (Storage)
- Humidity: MIL-STD-202, METHOD 103 COND B.
- Shock: MIL-STD-202, METHOD 213 COND B.
- Altitude: MIL-STD-202, METHOD 105 COND B.
- Temperature Cycle: MIL-STD-202, METHOD 107 COND A.

Note: The above specifications are subject to change or revision.  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

| ZONE | REV. | DESCRIPTION      | DATE       | APPROVED |
|------|------|------------------|------------|----------|
|      | 1    | ORIGINAL RELEASE | 06/23/2016 |          |
|      | A1   | ECN # 17-0117    | 05/31/2017 |          |
|      | A2   | ECN # 26-0131    | 07/17/2026 |          |



PMI CONFIDENTIAL AND PROPRIETARY

|                                                                                                                                                                                                                                |           |  |                                                                                                                                                                                                                                                                                    |           |                                                          |                     |              |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------|---------------------|--------------|--|
| <div>UNLESS OTHERWISE SPECIFIED<br/>DIMENSIONS ARE IN INCHES<br/>TOLERANCES ARE:<br/>FRACTIONS    DECIMALS    ANGLES<br/>±                .XX ± 0.02                ±<br/>                  .XXX ± 0.01                ±</div> |           |  | <div><p>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</p></div> |           |                                                          |                     |              |  |
|                                                                                                                                                                                                                                | APPROVALS |  | DATE                                                                                                                                                                                                                                                                               |           | TITLE<br>PRODUCT FEATURE<br>PEC4-16-50M18G-4R0-19-15-SFF |                     |              |  |
|                                                                                                                                                                                                                                | DRAWN JS  |  | 12/07/2015                                                                                                                                                                                                                                                                         |           |                                                          |                     |              |  |
|                                                                                                                                                                                                                                | REDRAWN   |  |                                                                                                                                                                                                                                                                                    |           |                                                          |                     |              |  |
| ISSUED                                                                                                                                                                                                                         |           |  |                                                                                                                                                                                                                                                                                    | SIZE<br>B | FSCM NO.<br>05XQ0                                        | DWG NO.<br>27029831 | REV.<br>A2   |  |
|                                                                                                                                                                                                                                |           |  |                                                                                                                                                                                                                                                                                    | SCALE 2:1 |                                                          |                     | SHEET 1 OF 1 |  |