

DESCRIPTION:

PMI MODEL NUMBER PE2-20-2D8G3D2G-LPF-SFF IS A 2.8 TO 3.2 GHz LOW NOISE AMPLIFIER FEATURING S21 GREATER THAN 0 dB ONLY BETWEEN 0 AND 8 GHz.

SPECIFICATIONS:

- FREQUENCY: 2.8 TO 3.2 GHz
- NOISE FIGURE: 3.2 dB TYP
- SMALL SIGNAL GAIN: 15 dB MIN @ 3 GHz
- S21 ABOVE 8 GHz: 0 dB MAX
- GAIN FLATNESS: 0.75 dB MAX
- OP1dB: 27 dBm TYP
- OIP3: 38 dBm TYP
- INPUT VSWR: 2.0:1 MAX
- OUTPUT VSWR: 2.0:1 MAX
- INPUT POWER: 17 dBm CW MAX
- POWER SUPPLY: +15 VDC @ 175 mA MAX
- RF CONNECTORS: SMA FEMALE
- FINISH: GOLD PLATED

ENVIRONMENTAL RATINGS

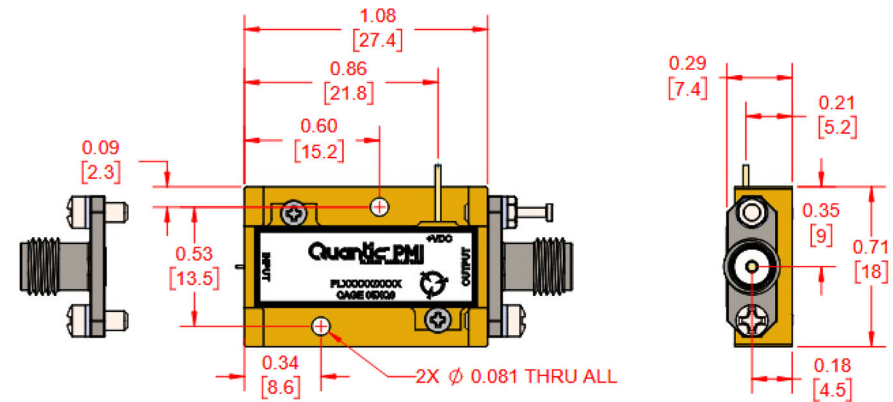
- **TEMPERATURE:** -40°C TO +85°C (OPERATING)
..... -55°C TO +125°C (STORAGE)
- **HUMIDITY:** MIL-STD-202, METHOD 103B COND. B
- **SHOCK** MIL-STD-202, METHOD 213B COND. B
- **VIBRATION** MIL-STD-202, METHOD 204D COND. B
- **ALTITUDE** MIL-STD-202, METHOD 105C COND. B
- **TEMPERATURE CYCLE:** MIL-STD-202, METHOD 107D COND. A

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

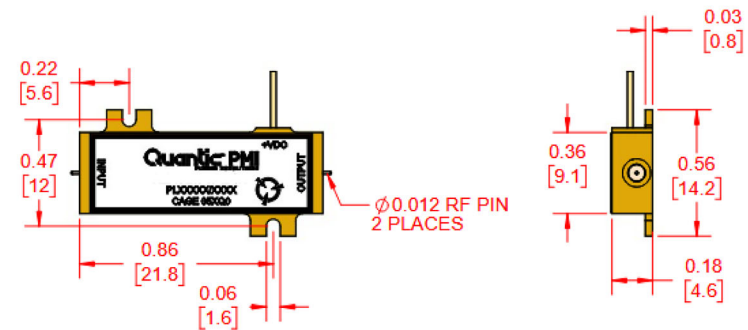
ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010
WEIGHT: 2.75 oz.

| REVISIONS | | | | |
|-----------|------|-------------|----------|----------|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| | - | PRELIMINARY | 03/03/26 | |
| | | | | |
| | | | | |

PE2 HOUSING WITH CARRIER



PE2 HOUSING WITHOUT CARRIER



PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

7309-A GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-5019 FAX: 301-662-1731
WEBSITE: www.quanticmpi.com
E-MAIL: sales@quanticmpi.com
ISO 9001 CERTIFIED



| APPROVALS | | DATE | TITLE | | |
|-----------|--|----------|--|----------|--------------|
| AG | | 03/03/26 | PRODUCT FEATURE PE2-20-2D8G3D2G-LPF-SFF | | |
| CHECKED | | | SIZE | FSCM NO. | DWG NO. |
| ISSUED | | | A | 05XQ0 | PRELIMINARY |
| | | | SCALE | N:S | SHEET 1 OF 1 |