

**DESCRIPTION:**

PMI MODEL NUMBER PE2-29-2G18G-14-SFF-HERM IS A 2 TO 18 GHz LOW NOISE AMPLIFIER FEATURING 27 TO 31 dB GAIN, 14 dBm OP1dB, AND 200 mW POWER HANDLING.

**SPECIFICATIONS:**

- FREQUENCY: 2.0 TO 18.0 GHz
- NOISE FIGURE: 4.0 dB MAX (3.5 dB TYP)
- SMALL SIGNAL GAIN: 27.0 dB MIN  
31.0 dB MAX
- GAIN VARIATION VS. TEMPERATURE: 1.5 dB P-P MAX  
(AT ANY SINGLE FREQUENCY)
- OP1dB: +14 dBm MIN
  
- INPUT VSWR: 2.0:1 MAX
- OUTPUT VSWR: 2.0:1 MAX
- INPUT POWER: 200 mW CW MAX
- REVERSE GAIN: -30 dB MIN
- POWER SUPPLY: +11.4 TO +15.75 VDC @ 250 mA MAX
- RF CONNECTORS: SMA FEMALE
- WEIGHT: 50 g MAX
- FINISH: GOLD PLATED
- SEALING: HERMETIC

**ENVIRONMENTAL RATINGS**

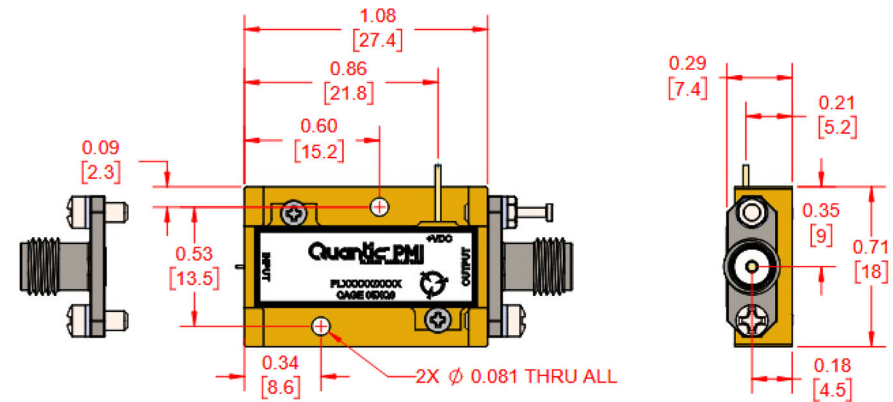
- **TEMPERATURE:** -54°C TO +85°C (OPERATING)  
-57°C TO +95°C (STORAGE)
- **HUMIDITY:** DESIGNED TO OPERATE IN 100% RH ENVIRONMENT INCLUDING CONDENSATION, PER MIL-HDBK-5400, 4.6.2.4
- **SHOCK:** DESIGNED TO SURVIVE AND OPERATE DURING SHOCK PER MIL-HDBK-5400, 4.6.2.6: 20G, 6-9 ms
- **VIBRATION:** DESIGNED TO SURVIVE AND OPERATE DURING VIBRATION PER MIL-STD-810F, ANNEX C, FIG. 514. 5C-8
- **ALTITUDE:** OPERATIONAL TO 43,000 FT.

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

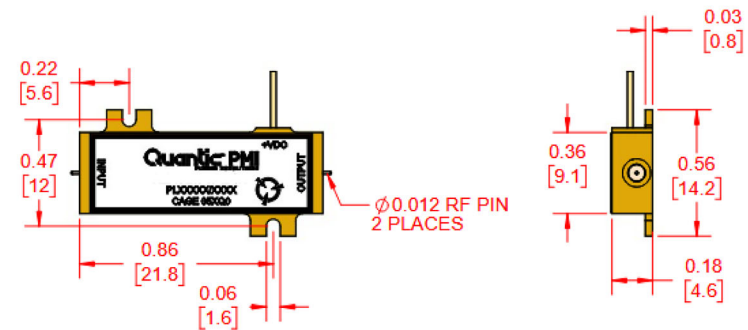
ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX ±0.020  
X.XXX ±0.010  
WEIGHT: 2.75 oz.

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.**

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
	AG	03/03/26	PRODUCT FEATURE PE2-29-2G18G-14-SFF-HERM		
CHECKED			SIZE	FSCM NO.	DWG NO.
ISSUED			A	05XQ0	PRELIMINARY
			SCALE	N:S	SHEET 1 OF 1