

**DESCRIPTION:**

PMI MODEL NUMBER PE2-12-30M40G-5R5-7-12-292FF IS A 30 MHz TO 40 GHz LOW NOISE AMPLIFIER. THIS AMPLIFIER IS SUPPLIED IN OUR STANDARD PE2 HOUSING THAT CAN BE USED AS A 2.92mm(F) CONNECTORIZED OR SURFACE MOUNT COMPONENT.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	7/17/2025	

**SPECIFICATIONS:**

- FREQUENCY RANGE:..... 0.03 to 40.0 GHz
- GAIN:..... 12 dB TYP  
9.5 dB MIN
- GAIN FLATNESS:..... ±2.5 dB MAX
- NOISE FIGURE:..... 7.5 dB MAX @ 30MHz to 10 GHz  
4.5 dB MAX @ 10-20 GHz  
7.5 dB MAX @ 20-40 GHz
- OP1dB:..... +7 dBm MIN
- VSWR (INPUT/OUTPUT):..... 2.0:1 MAX
- INPUT POWER:..... +17 dBm MAX
- DC VOLTAGE SUPPLY:..... +12 TO +15 VDC
- DC CURRENT DRAW:..... 150 mA MAX
- CONNECTORS:..... 2.92 FEMALE
- FINISH:..... GOLD PLATED

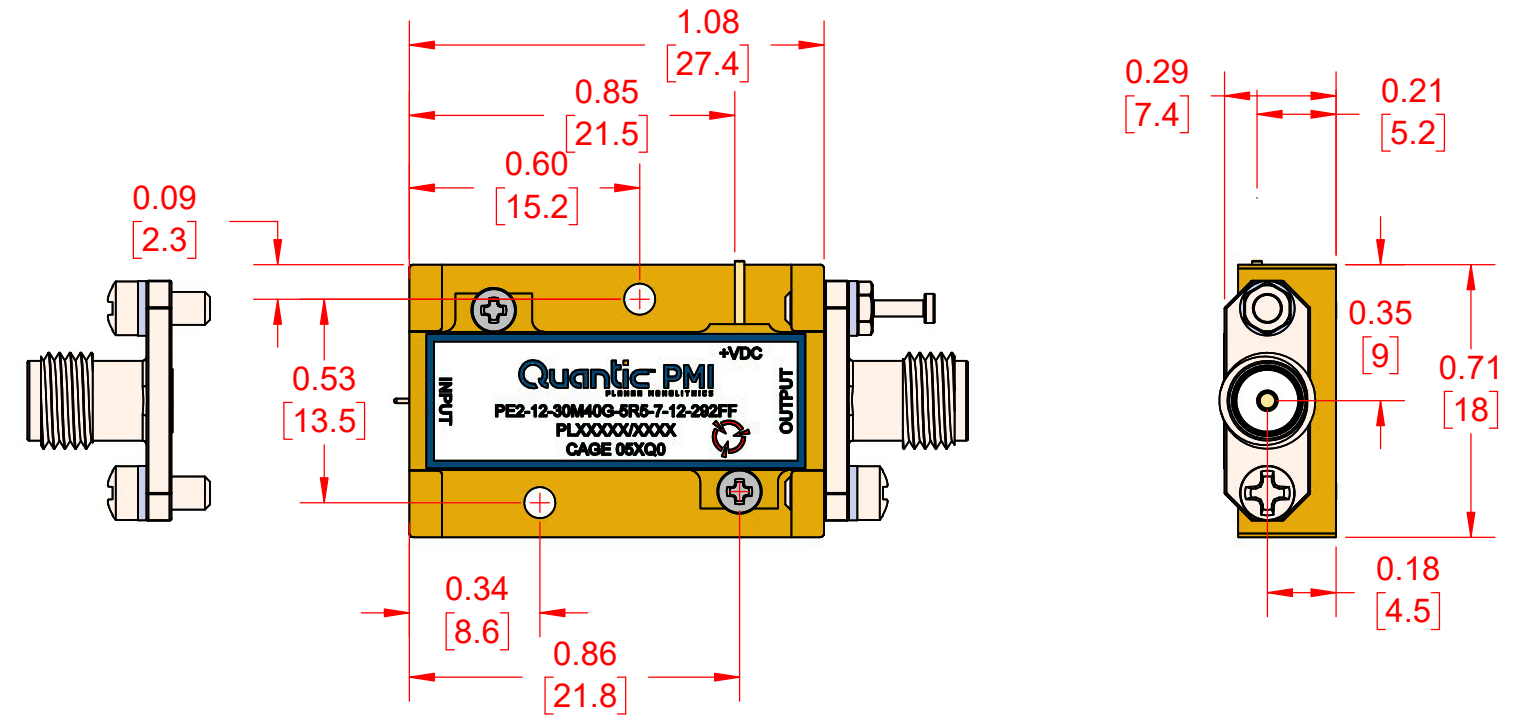
**FEATURES:**

- INTERNAL VOLTAGE REGULATION
- REVERSE VOLTAGE PROTECTION
- UNCONDITIONAL STABILITY

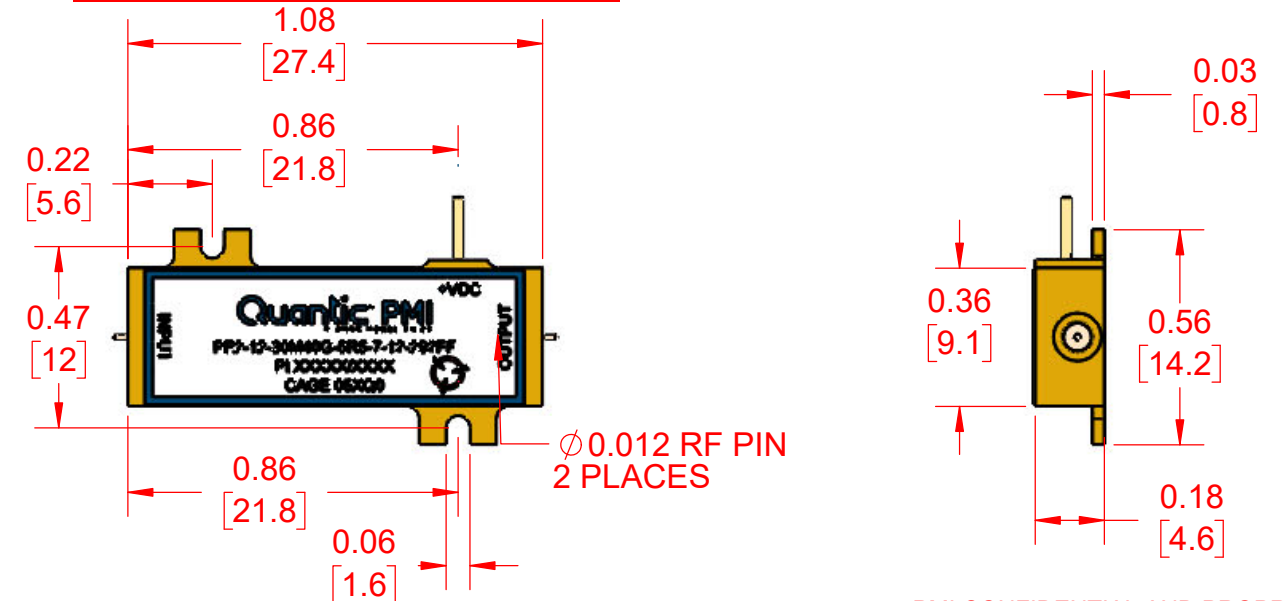
**ENVIRONMENTAL RATINGS:**

- TEMPERATURE:..... -40°C TO +85°C (OPERATING)  
-65°C TO +125°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 WITH CARRIER**



**PE2 HOUSING WITHOUT CARRIER**



PMI CONFIDENTIAL AND PROPRIETARY

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

APPROVALS DRAWN <b>G.MENDEZ</b> REDRAWN ISSUED		DATE 7/17/2025	<b>Quantic PMI</b> PLANAR MONOLITHICS 7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 662-5019, FAX: (301) 662-1731 WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01			TITLE OUTLINE PE2-12-30M40G-5R5-7-12-292FF	SIZE B	FSCM NO. 05XQ0	DWG NO. 27052603	REV. A1
SCALE 2:1			SHEET 1 OF 1				