

**DESCRIPTION:**

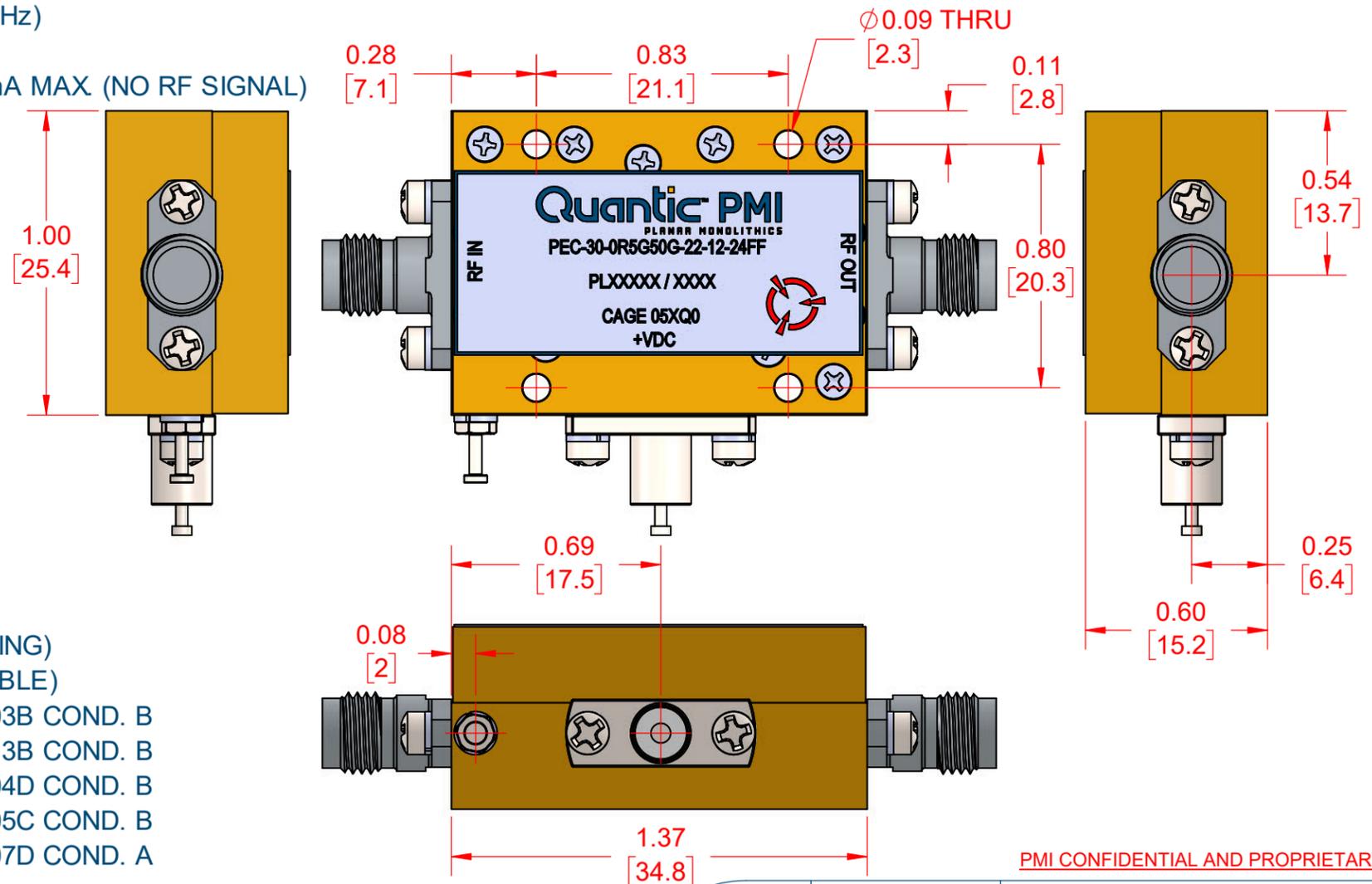
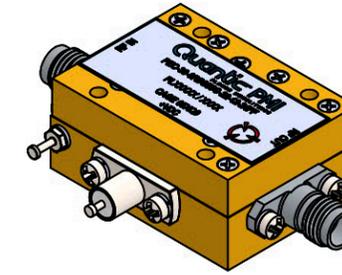
PMI MODEL NUMBER PEC-30-0R5G50G-22-12-24FF IS A 0.5 GHz TO 50 GHz LOW NOISE AMPLIFIER THAT HAS A TYPICAL GAIN OD 30 dB WHILE MAINTAINNING A ±2.5 dB FLATNESS. THIS SMALL 1.37" X 1.00" X 0.60" PACKAGE IA OUTFITTED WITH 2.4 mm FEMALE CONNECTORS.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	6/29/2023	
	B1	ECN # 24002	1/8/2024	

**SPECIFICATIONS:**

- FREQUENCY RANGE:..... 0.5 GHz TO 50 GHz
- GAIN:..... 30 dB TYP. 20 dB MIN.
- GAIN FLATNESS:..... ±3.5 dB GOAL, ±4.5 dB MAX
- NOISE FIGURE\*:..... 9.0 dB MAX
- OP1dB:..... +15 dBm MIN. (0.5 to 40 GHz)  
+8 dBm TYP. (40 to 50 GHz)
- PSAT:..... +18 dBm MIN. (0.5 to 40 GHz)  
+12 dBm TYP. (40 to 50 GHz)
- VSWR (INPUT/OUTPUT):..... 2.3:1 GOAL, 2.5:1 MAX
- DC VOLTAGE SUPPLY:..... + 12 TO +15 VDC @600 mA MAX. (NO RF SIGNAL)
- CONNECTORS:..... 2.4 mm FEMALE
- FINISH:..... GOLD PLATED

\*MEASURED UP TO 37 GHz



**ENVIRONMENTAL RATINGS:**

- TEMPERATURE:..... -55°C TO +85°C (OPERATING)  
-65°C TO +117°C (AVAILABLE)
- 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

PMI CONFIDENTIAL AND PROPRIETARY

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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± ± .XXX ± 0.01		<table border="1"> <tr> <th>APPROVALS</th> <th>DATE</th> </tr> <tr> <td>DRAWN <b>S AZHAR</b></td> <td>6/29/2023</td> </tr> <tr> <td>REDRAWN</td> <td></td> </tr> <tr> <td>ISSUED</td> <td></td> </tr> </table>		APPROVALS	DATE	DRAWN <b>S AZHAR</b>	6/29/2023	REDRAWN		ISSUED		<p><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</p>	
APPROVALS	DATE												
DRAWN <b>S AZHAR</b>	6/29/2023												
REDRAWN													
ISSUED													
TITLE OUTLINE PEC-30-0R5G50G-22-12-24FF		SIZE B	FSCM NO. 05XQ0	DWG NO. 27046500	REV. B1								
SCALE 2:1		SHEET 1 OF 1											