

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	2/21/2005	
	A3	ECN # 25-0266	9/10/2025	
	A4	ECN # 25-0269	9/17/2025	

**DESCRIPTION:**

LOW NOISE AMPLIFIER DESIGNED FOR MILITARY AND INDUSTRIAL APPLICATIONS. THIS AMPLIFIER IS SUPPLIED IN OUR STANDARD PE2 HOUSING AND CAN BE USED AS A SMA CONNECTORIZED OR A SURFACE MOUNT COMPONENT. OTHER PACKAGES AND CONNECTOR TYPE ARE AVAILABLE.

**SPECIFICATIONS:**

- FREQUENCY RANGE:..... 2 GHz TO 18 GHz
- GAIN:..... +20 dB TYP
- GAIN FLATNESS:..... ±2.0 dB MAX
- NOISE FIGURE:..... 4 dB TYP
- OP1dB:..... +14 dBm MIN
- VSWR INPUT/OUTPUT:..... 2.0:1 MAX
- DC VOLTAGE SUPPLY:..... +12 TO +15 VDC
- DC CURRENT DRAW:..... 150 mA MAX
- CONNECTORS:..... SMA FEMALE
- FINISH:..... GOLD PLATED

**FEATURES:**

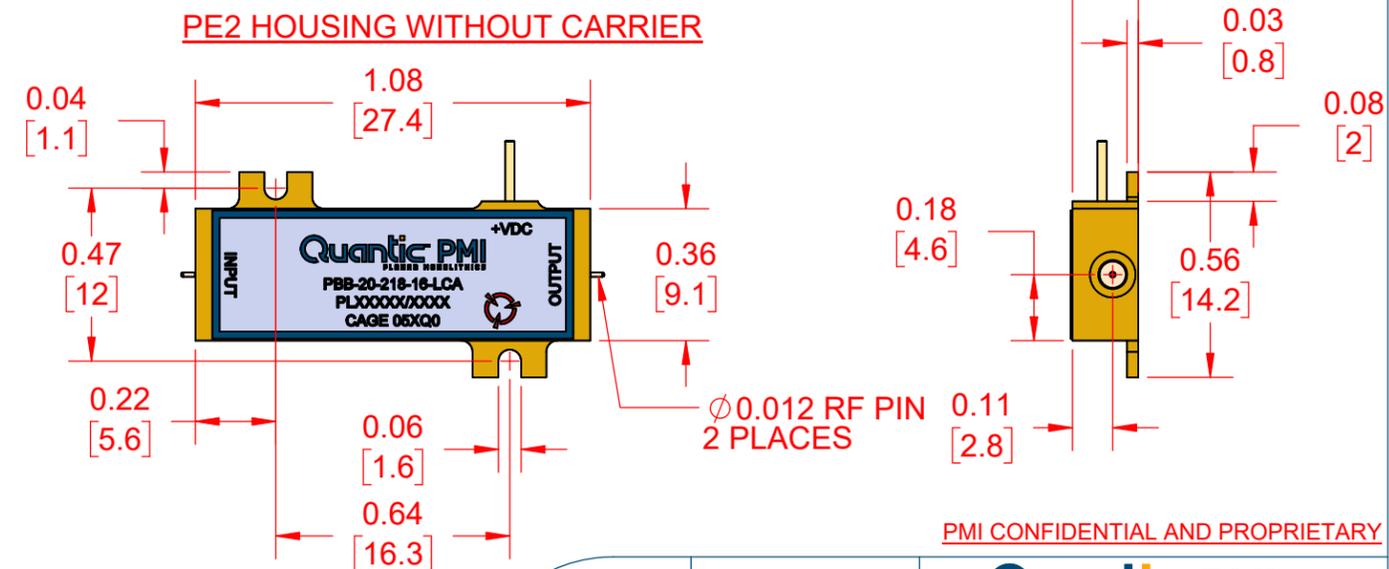
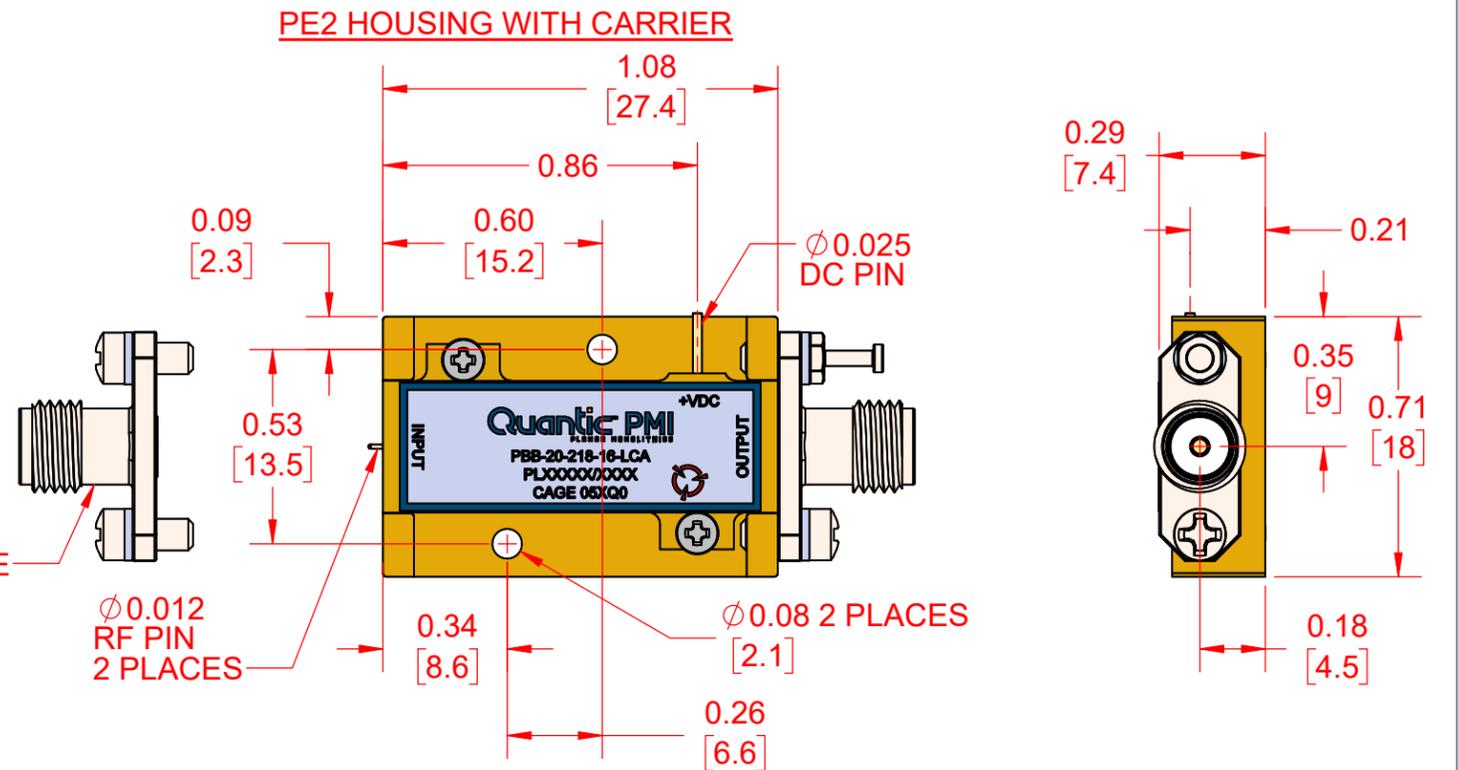
- INTERNAL VOLTAGE REGULATION
- UNCONDITIONAL STABILITY

**AVAILABLE OPTIONS:**

- VARIOUS PACKAGE TYPES
- VARIOUS CONNECTOR TYPES
- TEMPERATURE COMPENSATION
- GAIN AND PHASE MATCHING
- MIL-STD-883 SCREENING AVAILABLE

**ENVIRONMENTAL RATINGS:**

- TEMPERATURE:..... -20°C TO +70°C (OPERATING)  
-55°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



PMI CONFIDENTIAL AND PROPRIETARY

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

APPROVALS		DATE	Quantic PMI PLANAR MONOLITHICS			
DRAWN	KM	2/21/2005	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			
REDRAWN			TITLE PRODUCT FEATURE PBB-20-218-16-LCA			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			B	05XQ0	PRELIMINARY	A4
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± ± .XXX ± 0.01			SCALE 2:1			SHEET 1 OF 1