

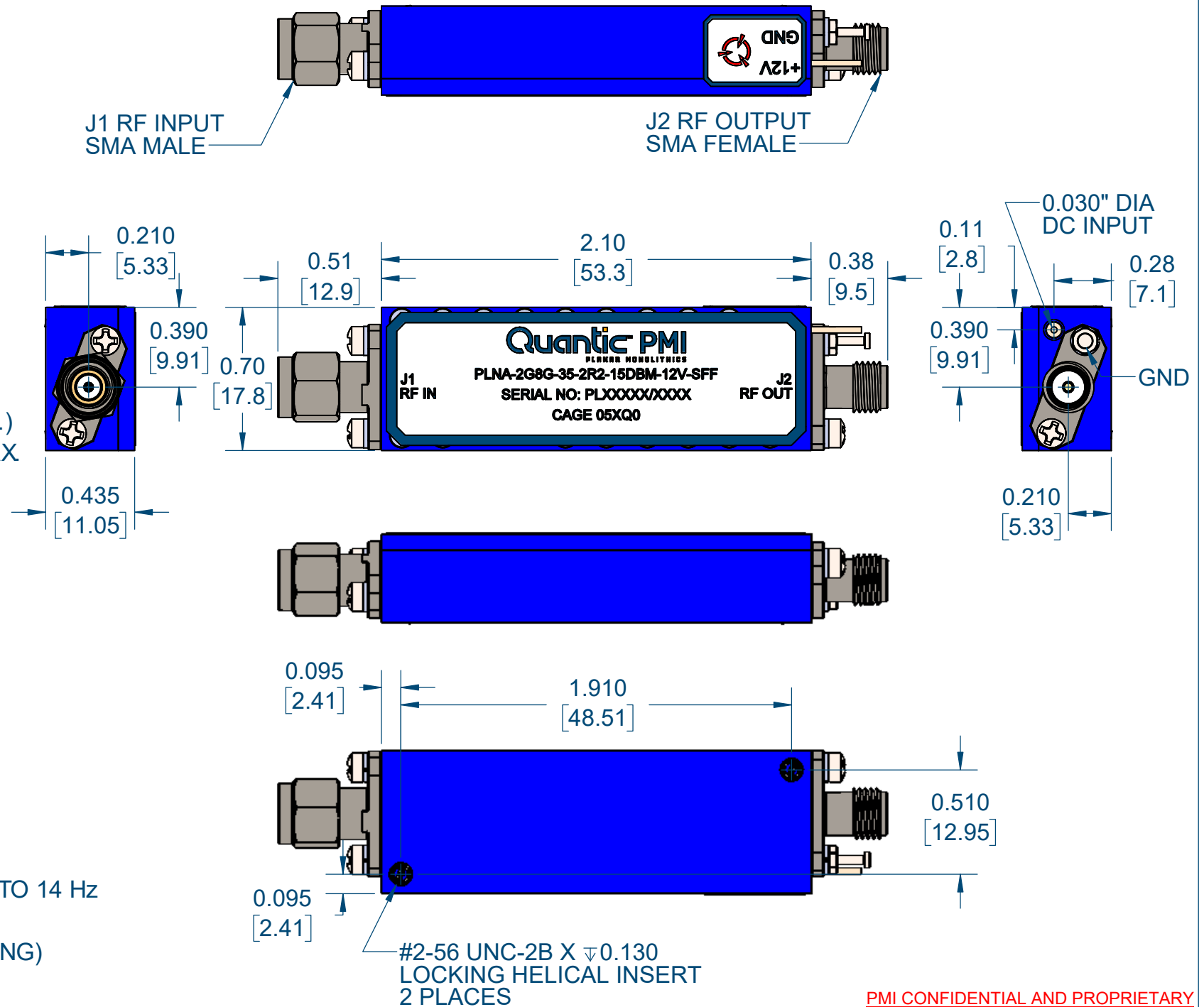
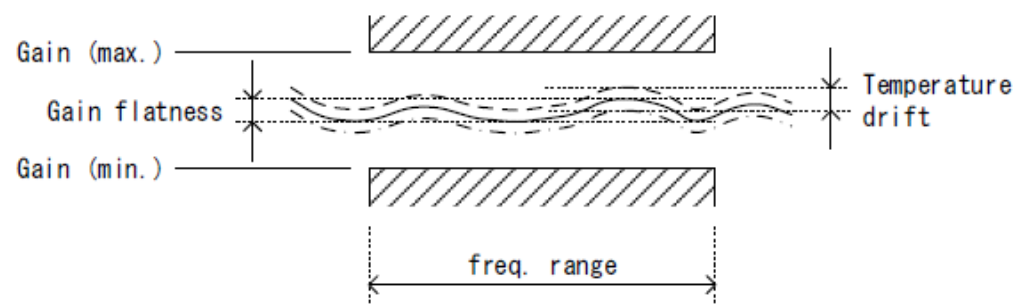
DESCRIPTION:

PLANAR MONOLITHICS INDUSTRIES MODEL NO: PLNA-2G8G-35-2R2-15DBM-12V-SFF IS A LOW NOISE AMPLIFIER THAT OPERATES OVER THE 2 GHz TO 8 GHz RANGE AND MEETS THE FOLLOWING SPECIFICATIONS.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	10/8/2024	
	A2	ECN # 25-0040	2/11/2025	

SPECIFICATIONS:

- FREQUENCY RANGE:..... 2.0 GHz TO 8.0 GHz
- GAIN:..... 32.5 dB - 37.5 dB
35 dB TYP.
- NOISE FIGURE:..... 2.2 dB MAX @ +25°C
2.4 dB MAX @ +70°C
- P1dB:..... +15 dBm MIN.
- GAIN FLATNESS:..... ±1.5 dB MAX
- TEMPERATURE DRIFT:..... 1.5 dBm MAX
- IP3:..... +23 dBm TYP.
- HARMONICS (AT +5 dBm INPUT):..... -10 dBc MAX
- INPUT POWER HANDLING:..... +16 dBm CW
- VSWR (IN/OUT):..... 2.0:1 MAX
(RETURN LOSS -9.54 dB MAX.)
- POWER SUPPLY:..... +12 VDC (±5%) @ 300 mA MAX
- FINISH:..... PAINTED BLUE



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -25°C TO +70°C (OPERATING)
-30°C TO +70°C (STORAGE)
- HUMIDITY:..... 95% RH AT +45°C
- VIBRATION (OPERATION):..... 100mm PEAK TO PEAK AT 2 TO 14 Hz
4.0 G AT 14 TO 50 Hz
- SHOCK:..... 20 G AT 11ms (NON-OPERATING)

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

APPROVALS		DATE	TITLE			
DRAWN D. HOSCHAR		10/8/2024	OUTLINE			
REISSUED			PLNA-2G8G-35-2R2-15DBM-12V-SFF			
SIZE	FSCM NO.	DWG NO.	REV.			
B	05XQ0	27049840	A2			
SCALE 1.5:1			SHEET 1 OF 1			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± .XX ± 0.02 ±
± .XXX ± 0.01

PMI CONFIDENTIAL AND PROPRIETARY

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