

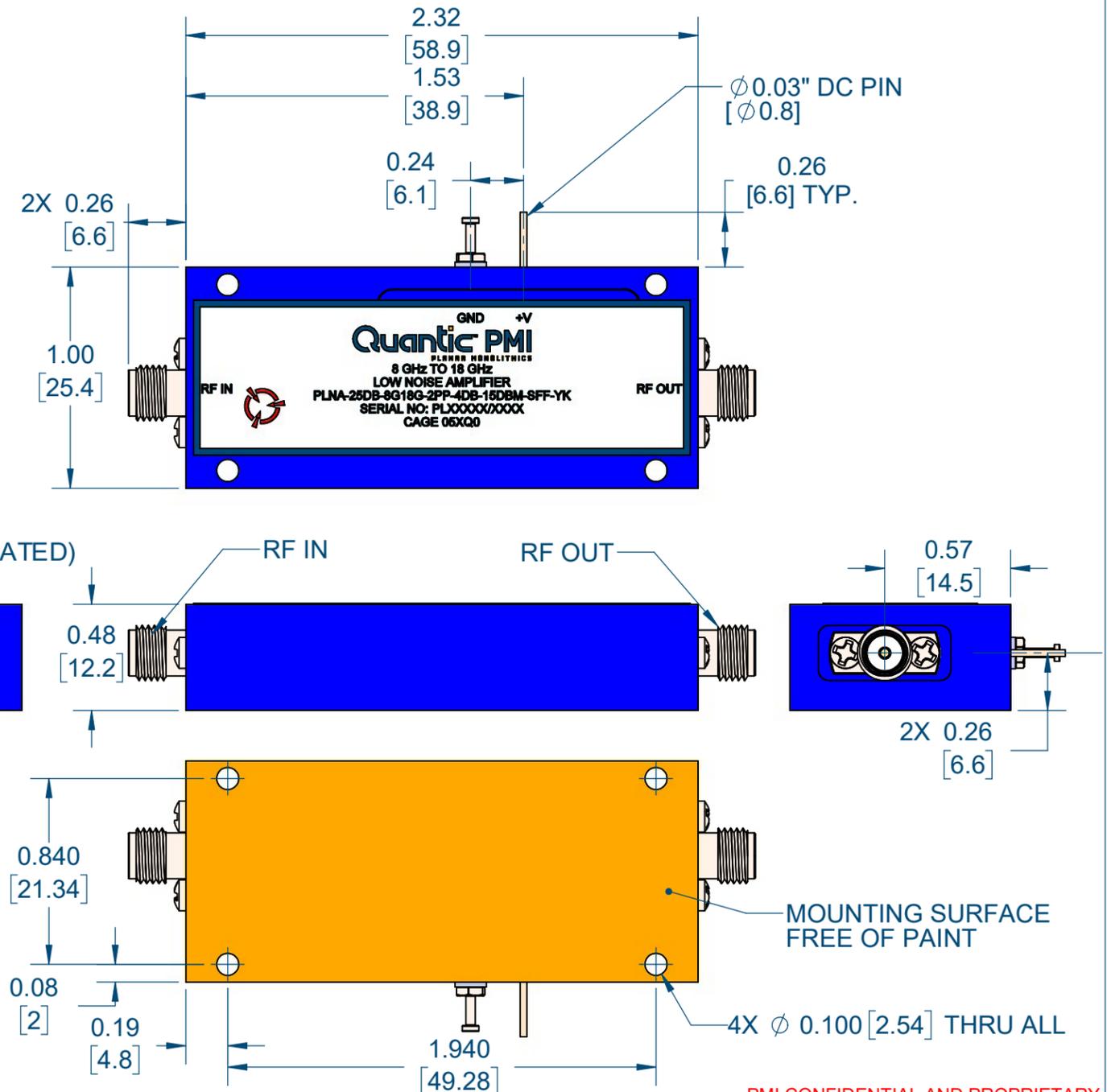
DESCRIPTION:

PMI MODEL NUMBER: PLNA-25DB-8G18G-2PP-4DB-15DBM-SFF-YK IS AN 8 TO 18 GHz LOW NOISE AMPLIFIER. THIS AMPLIFIER IS HERMETICALLY SEALED AND SUPPLIED WITH SMA FEMALE INPUT AND OUTPUT CONNECTORS

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	12/16/2024	

SPECIFICATIONS:

- FREQUENCY RANGE:..... 8 GHz TO 18 GHz
- NOISE FIGURE:..... 4.0 dB MAX
- SMALL SIGNAL GAIN:..... 23.0 dB MIN.
27.0 dB MAX
- GAIN VARIATION VS. TEMPERATURE:..... 3.0 dB P-P MAX
(@ ANY ONE FREQUENCY)
- OP1dB:..... +15 dBm MIN.
- OIP3:..... +23 dBm MIN.
- INPUT AND OUTPUT VSWR (50Ω):..... 2.0:1 MAX
- RF SAFE INPUT POWER:..... 200 mW MAX CW
500 mW MAX PEAK (PW 1μs, 1% DC)
- RECOVERY TIME:..... 50 ns MAX @ 200 mW MAX CW
- REVERSE GAIN:..... -30 dB MAX @ 500 mW PEAK (PW 1μs, 1% DC)
- DC POWER SUPPLY:..... +10 V TO +15.75 V @ 330 mA MAX
- CONNECTORS:..... SMA FEMALE
- FINISH:..... PAINTED BLUE
MOUNTING SURFACE FREE OF PAINT (GOLD PLATED)
- SEALING:..... HERMETIC
- WEIGHT:..... 50 g MAX



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -54°C TO +95°C (OPERATING)
-54°C TO +95°C (STORAGE)
- ALTITUDE:..... 0 TO 9,144 m (30,000 ft)
- VIBRATION:..... MIL-E-5400T 3.2.24.5 FIG.2 CURVE III
- SHOCK:..... MIL-E-5400T 3.2.24.6.1
147.105 m/s² (15G), 11 ± 1 msec
(6 DIRECTIONS)
- HUMIDITY:..... MIL-E-5400T 3.2.24.4
100% RH
HERMETIC SEAL

PMI CONFIDENTIAL AND PROPRIETARY

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

APPROVALS		DATE	TITLE			
DRAWN D. HOSCHAR		12/16/2024	OUTLINE			
REDRAWN			PLNA-25DB-8G18G-2PP-4DB-15DBM-SFF-YK			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			B	05XQ0	27050180	A1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01			SCALE 1.5:1		SHEET 1 OF 1	

Quantic PMI
PLANAR MONOLITHICS

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