

DESCRIPTION:

PMI MODEL NO. PLNA-9-1G2G-20-SMF IS A BIASED LIMITER FOLLOWED WITH AN LNA THAT OPERATES OVER THE FREQUENCY RANGE OF 1.0 TO 2.0 GHz. THIS AMPLIFIER IS SUPPLIED IN OUR STANDARD PE2 HOUSING THAT CAN BE USED AN SMA CONNECTORIZED OR A SURFACE MOUNT COMPONENT.

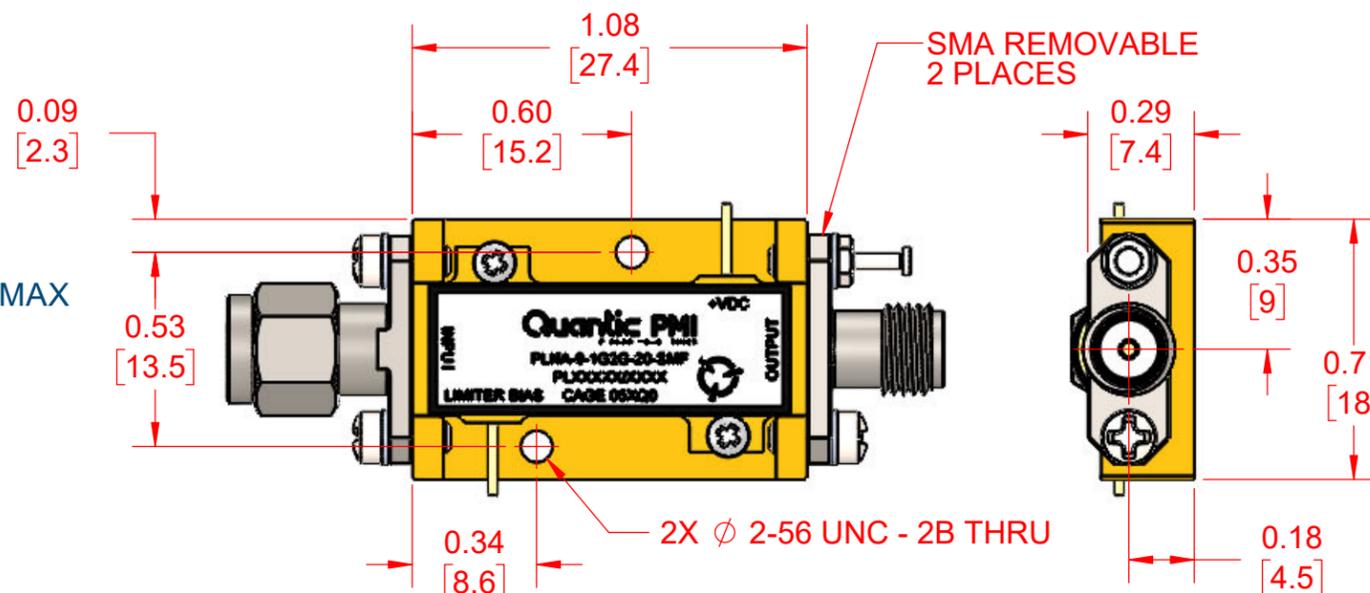
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	4/25/2023	
	B4	ECN # 24-0198	7/24/2024	
	B5	ECN # 24-0324	11/11/2024	

SPECIFICATIONS @ +25°C:

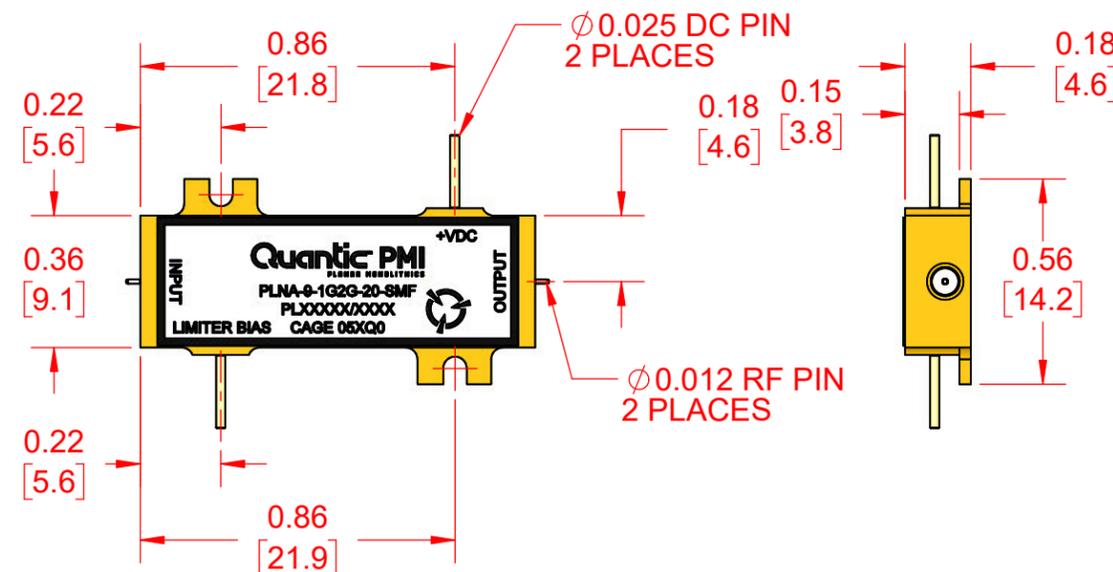
- FREQUENCY RANGE:..... 1.0 TO 2.0 GHz
 - GAIN:..... 9 dB MIN
 - GAIN FLATNESS:..... ±1.0 dB MAX
 - NOISE FIGURE:..... 4.5 dB MAX UP TO +25°C
DERATED TO 5 dB MAX @ +85°C
 - IP1dB:..... +12 dBm MIN* @ -1V LIMITER BIAS
 - VSWR INPUT/OUTPUT:..... 2.0:1 MAX
 - INPUT POWER:..... 2W CW/60 dBm PEAK 0.1% DC, 1 us PW MAX
 - DC VOLTAGE SUPPLY:..... +6V FIXED**
 - DC CURRENT DRAW:..... 200 mA MAX
 - CONNECTORS IN/OUT:..... SMA MALE (IN) FEMALE (OUT)
 - FINISH:..... GOLD PLATED
- ** NO INTERNAL VOLTAGE REGULATION OR REVERSE PROTECTION

- | | |
|------------------------|-------------------|
| * ● LIMITER BIAS:..... | 0 TO -1.5 VDC MAX |
| ● CURRENT:..... | 1 mA MAX |

PE2 HOUSING WITH CARRIER



PE2 HOUSING WITHOUT CARRIER (SURFACE MOUNT)



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -55°C TO +85°C (OPERATING)
-55°C TO +125°C (STORAGE)
- HUMIDITY:..... MIL-STD-202F, METHOD 103B COND. B
- SHOCK:..... MIL-STD-202F, METHOD 213B COND. B
- ALTITUDE:..... MIL-STD-202F, METHOD 105C COND. B

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

PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS DRAWN J ESCANO REDRAWN ISSUED		DATE		TITLE OUTLINE PLNA-9-1G2G-20-SMF	
		4/25/2023			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01		SIZE	FSCM NO.	DWG NO.	REV.
		B	05XQ0	27046240	B5
		SCALE 2:1			SHEET 1 OF 1

Quantic PMI
PLANAR MONOLITHICS

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