

DESCRIPTION:

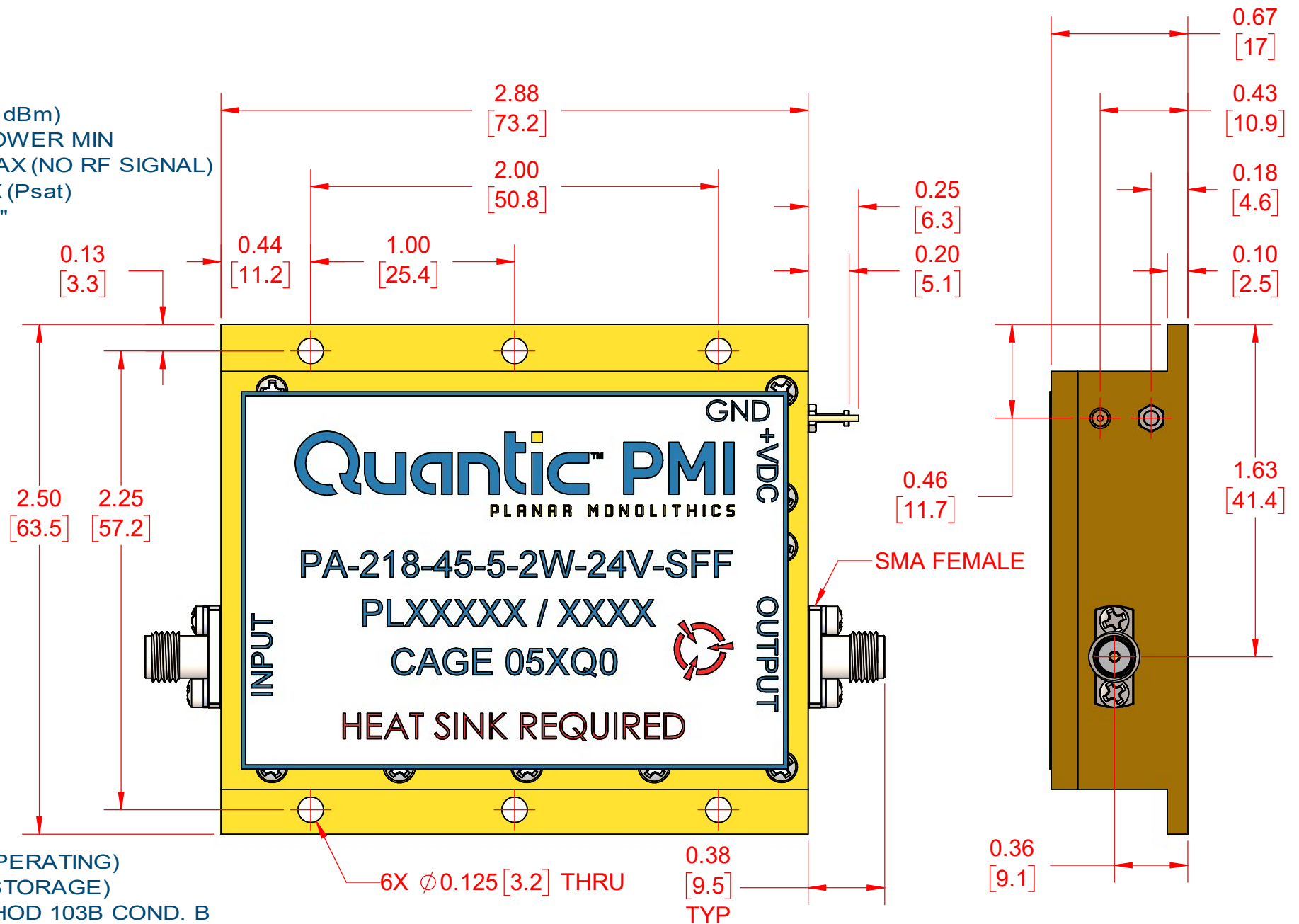
PMI MODEL NUMBER PA-218-45-5-2W-24V-SFF IS A 2 TO 18 GHz POWER AMPLIFIER WITH 42 dB MIN AND 56 dB MAX GAIN, A NOISE FIGURE OF 5 dB MAX AND A SATURATED OUTPUT POWER OF 2 WATTS MIN.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	3/11/2024	
	B1	ECN # 24-0320	11/6/2024	

SPECIFICATIONS:

- FREQUENCY RANGE:..... 2.0 TO 18.0 GHz
- GAIN:..... 42 dB MIN / 56 dB MAX
- GAIN FLATNESS:..... ± 3.5 dB
- VSWR (INPUT):..... 2.0 : 1 MAX
- VSWR (OUTPUT):..... 2.4 : 1 MAX
- NOISE FIGURE:..... 5 dB MAX
- RF INPUT POWER:..... +20 dBm MAX
- SATURATED OUTPUT POWER (Psat):..... 2 WATTS MIN (+33 dBm)
@ 0 dBm INPUT POWER MIN
- DC VOLTAGE SUPPLY:..... +24V @ 800 mA MAX (NO RF SIGNAL)
@ 1.6 A MAX (Psat)
- SIZE:..... 2.88" X 2.50" X 0.67"
- CONNECTORS:..... SMA FEMALE
- FINISH:..... GOLD PLATED

*ADD THERMAL GREASE FOR THERMAL DISSIPATION



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -55°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- 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

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

APPROVALS	DATE
DRAWN S AZHAR	3/11/2024
REDRAWN	
ISSUED	

Quantic PMI
PLANAR MONOLITHICS
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ISO 9001 CERTIFIED

TITLE PA-218-45-5-2W-24V-SFF
OUTLINE

SIZE	FSCM NO.	DWG NO.	REV.
B	05XQ0	27048180	B1

SCALE 1.5:1 SHEET 1 OF 1