

DESCRIPTION:

PMI MODEL NUMBER PA-2G18G-43-5-40-SFF-HS-24V IS A HIGH POWER AMPLIFIER WITH AN OPERATING FREQUENCY OF 2 TO 18 GHz, 43 dB GAIN AND SATURATED OUTPUT POWER OF 40 dBm.

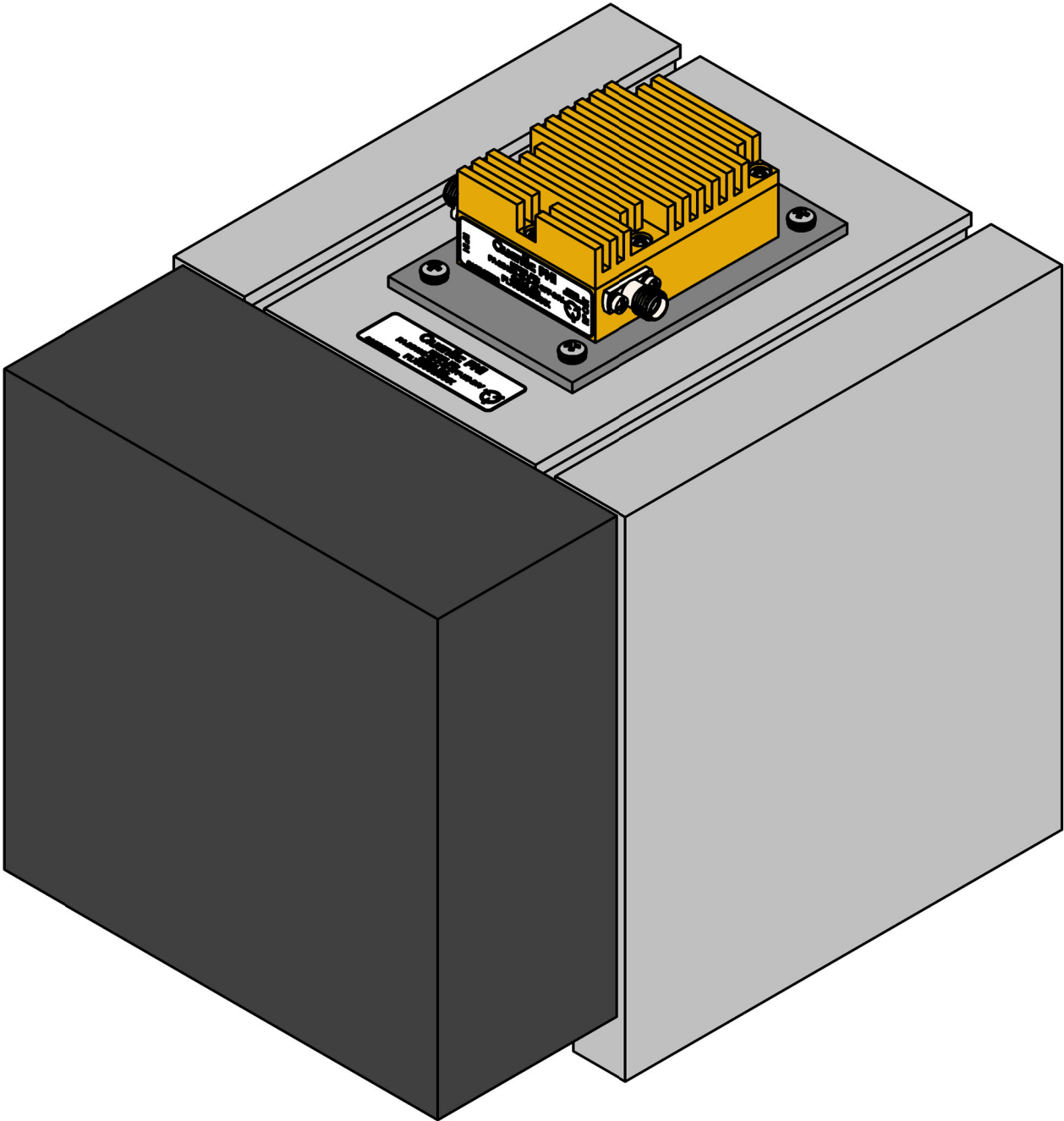
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	1/17/2025	
	A2	ECN # 25-0051	3/6/2025	

SPECIFICATIONS:

- FREQUENCY RANGE:..... 2.0 TO 18.0 GHz
- GAIN:..... 43 dB TYP
39 dB MIN
- VSWR (INPUT):..... 2.0 : 1 MAX
- VSWR (OUTPUT):..... 2.4 : 1 MAX
- NOISE FIGURE:..... 5.0 dB MAX
- PSAT:..... 40 dBm (10W) TYP
36 dBm MIN
- INPUT POWER:..... 20 dBm MAX
- SUPPLY*:..... +24 VDC MAX
- POWER AMP CONTROL (ENABLE):..... "1" = +3V ON
"0" = 0V OFF
- WEIGHT:..... 2.0 oz MAX (WITHOUT HEATSINK)
- CONNECTORS:..... SMA FEMALE REMOVEABLE
- FINISH:..... GOLD PLATED
- OPTION:..... HEATSINK WITHOUT FAN:
PA-2G18G-43-5-40-SFF-24V
- HEATSINK POWER SUPPLY:..... 120VAC/60Hz (POWER CORD SUPPLIED)

Typical Current	
Quiescent current and maximum current	
-40°C	
-30 dBm Input Power	1,860 mA
+20 dBm Input Power	2,550 mA
+25°C	
-30 dBm Input Power	2,150 mA
+20 dBm Input Power	3,200 mA
+85°C	
-30 dBm Input Power	2,400 mA
+20 dBm Input Power	3,300 mA

*LOWER VOLTAGE WILL RESULT IN LOWER PSAT. GAIN WILL STAY CONSTANT DOWN TO +20 VDC.



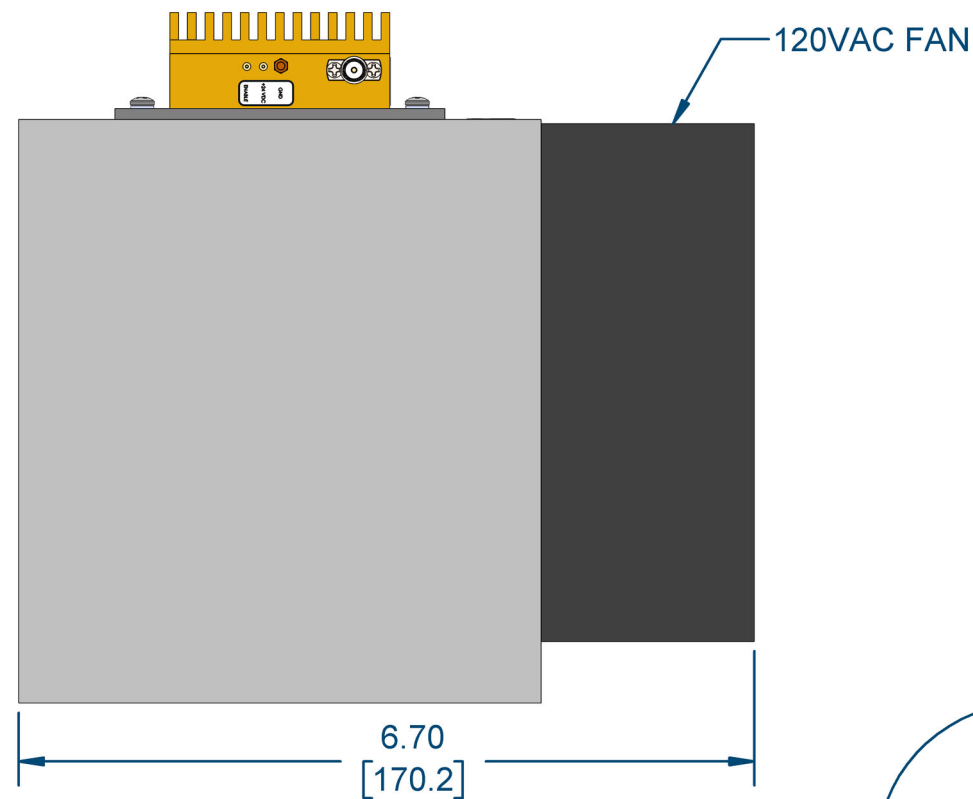
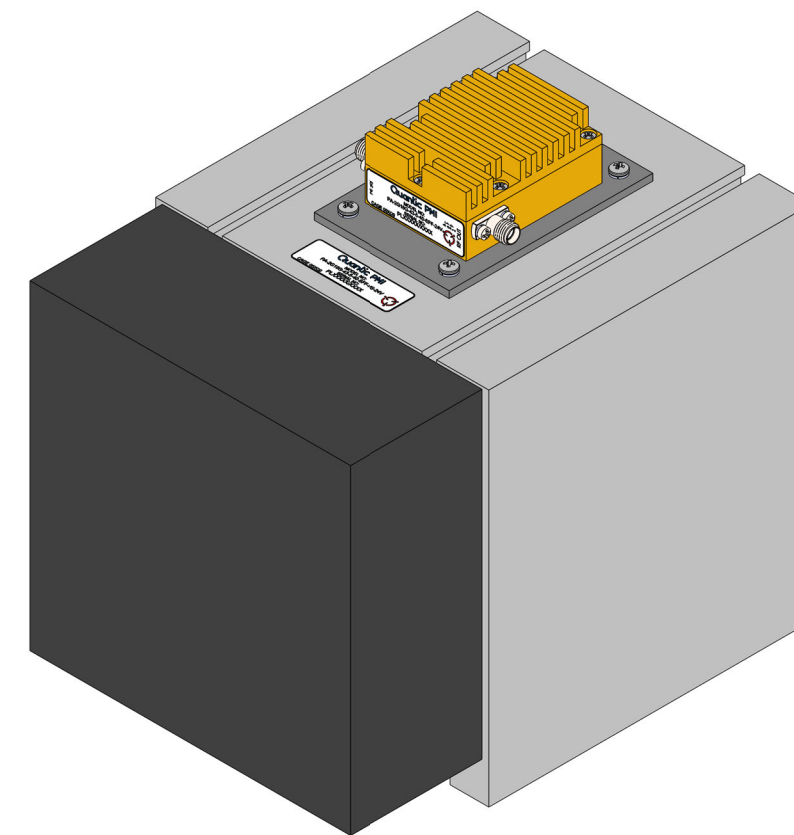
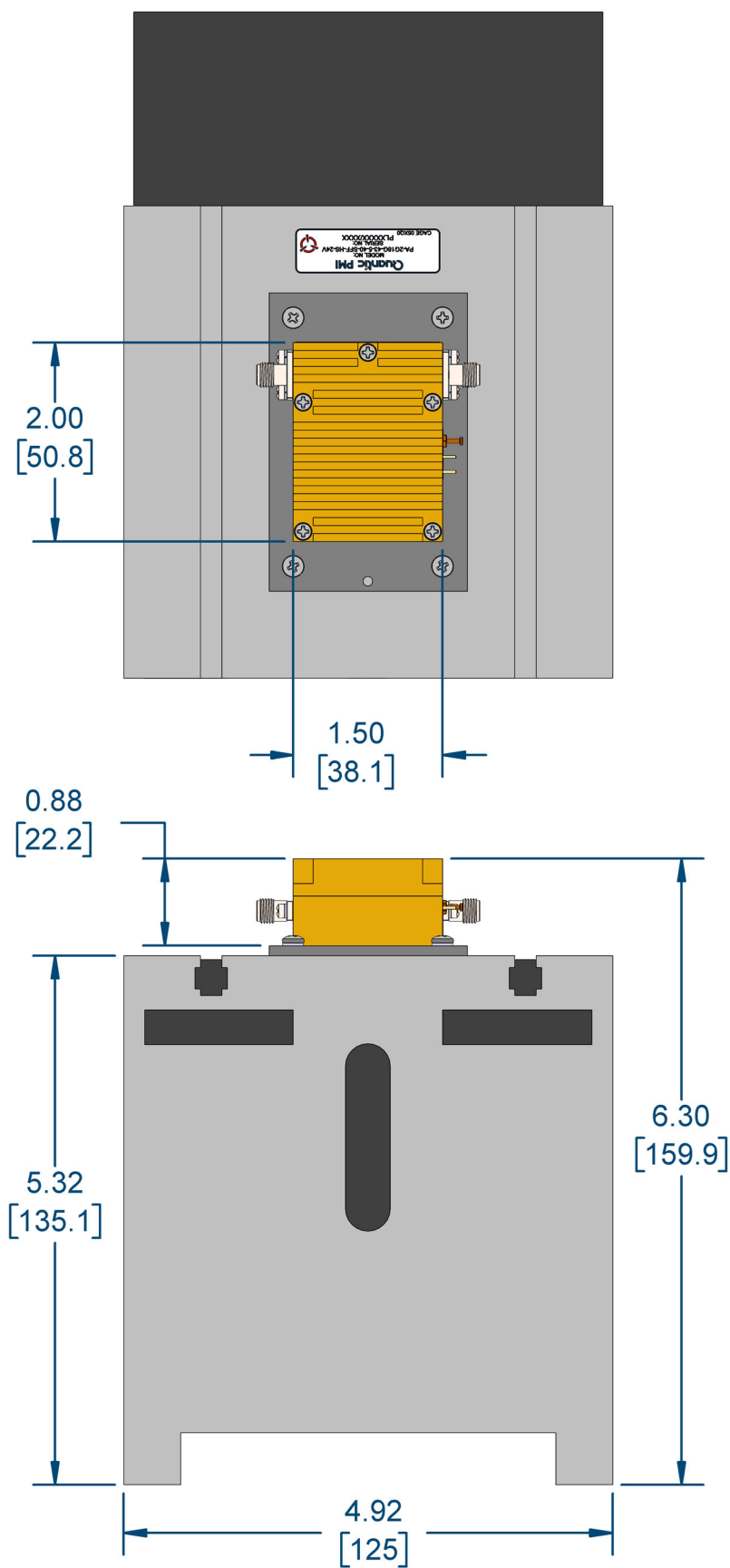
ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -40°C TO +85°C (OPERATING)
-55°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

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

PMI CONFIDENTIAL AND PROPRIETARY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01			Quantic PMI PLANAR NONLINEAR 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				
	APPROVALS		DATE		TITLE OUTLINE PA-2G18G-43-5-40-SFF-HS-24V		
	DRAWN R. SIRK		1/17/2025				
	REDRAWN						
ISSUED				SIZE	FSCM NO.	DWG NO.	REV.
				B	05XQ0	27050480	A2
				SCALE 1:4			SHEET 1 OF 2



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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01 ±			Quantic PMI PLANAR NONVOLATILES 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					
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	DRAWN R. SIRK		1/17/2025					
	REDRAWN				SIZE B FSCM NO. DWG NO. REV. 05XQ0 27050480 A2			
	ISSUED							
				SCALE 1:4		SHEET 2 OF 2		