

DESCRIPTION:

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

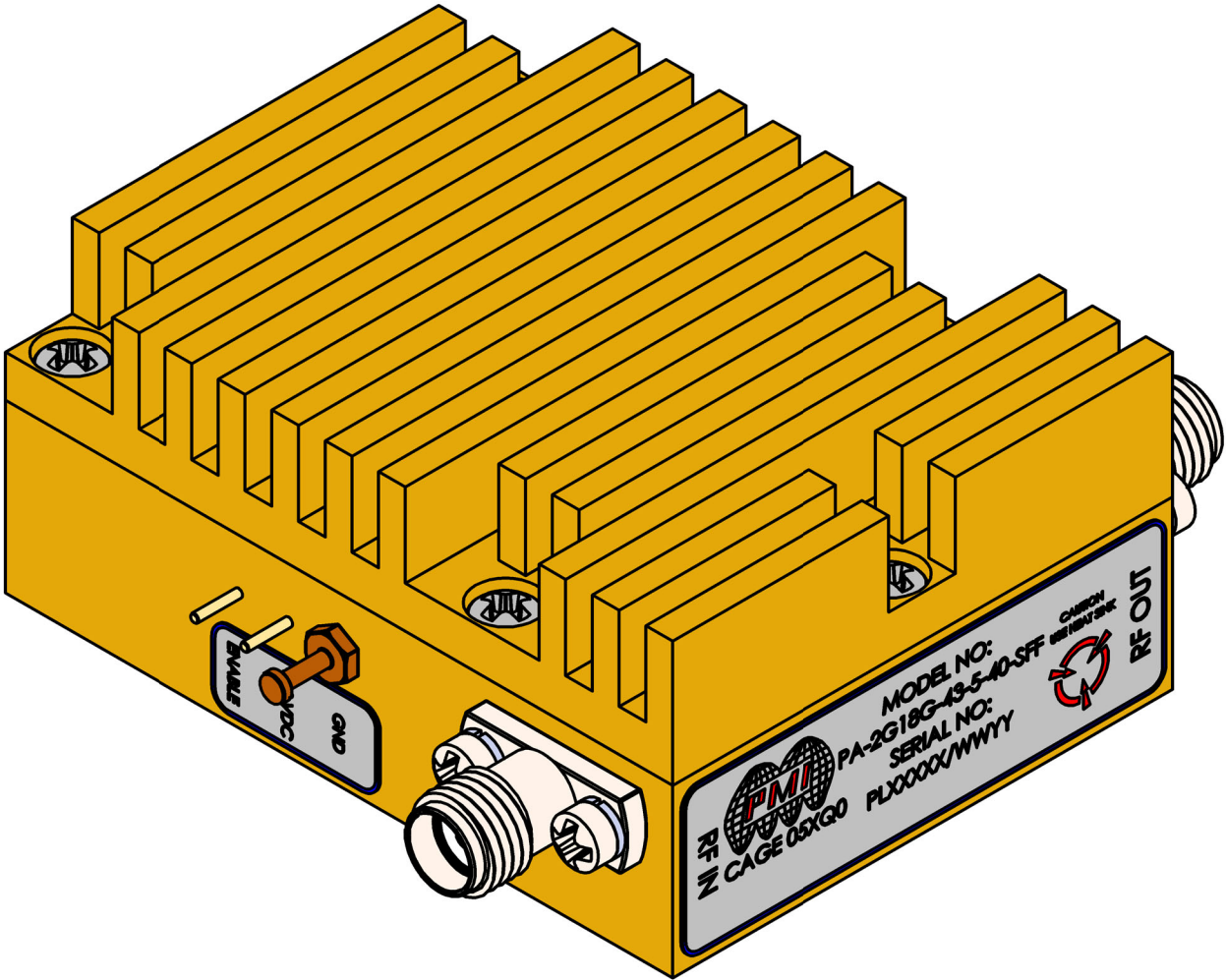
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	9/26/2022	
	A2	ECN # 23-0178	9/27/2023	

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: +22 VDC MAX
- POWER AMP CONTROL (ENABLE): "1" = +3V ON
"0" = 0 V OFF
- WEIGHT: 2.0 oz MAX (WITHOUT HEATSINK)
- CONNECTORS: SMA FEMALE REMOVEABLE
- FINISH: GOLD PLATED
- OPTION: HEATSINK WITH 120VAC FAN: PA-2G18G-43-5-40-SFF-HS

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

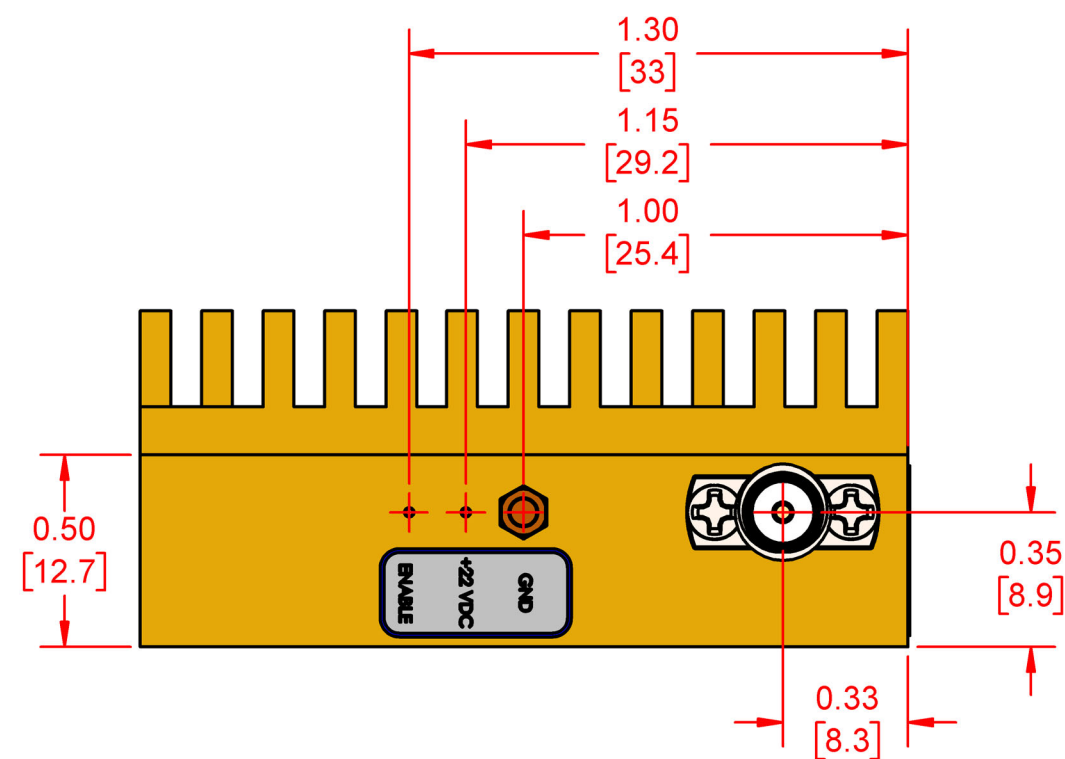
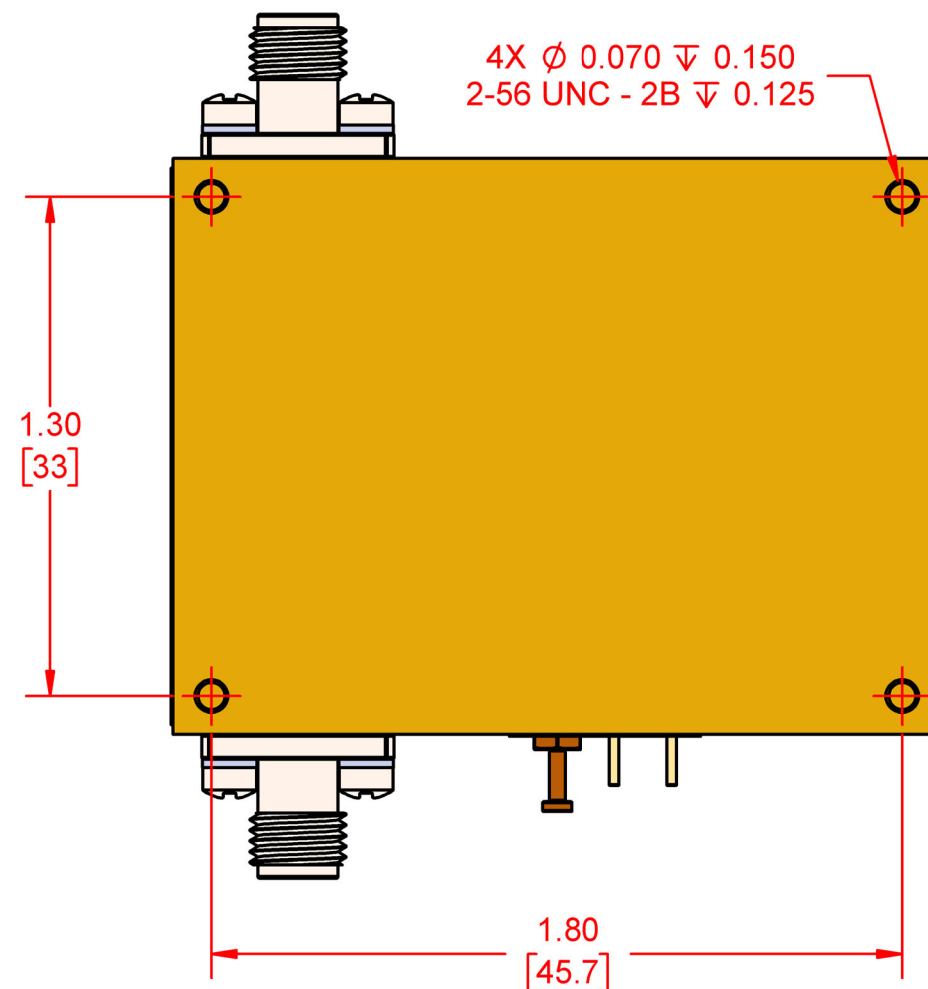
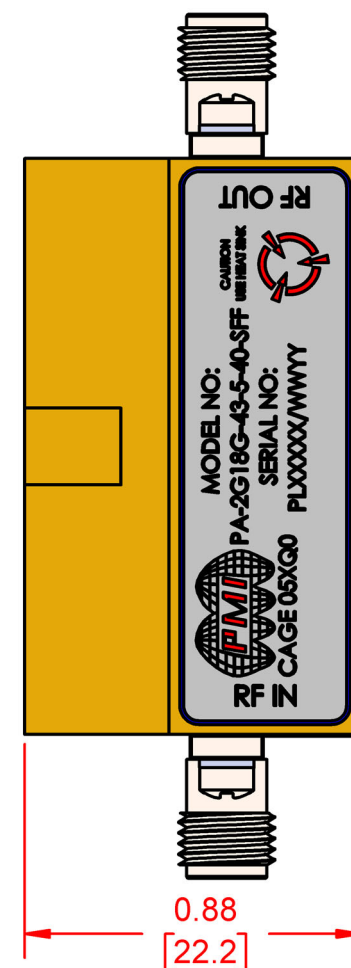
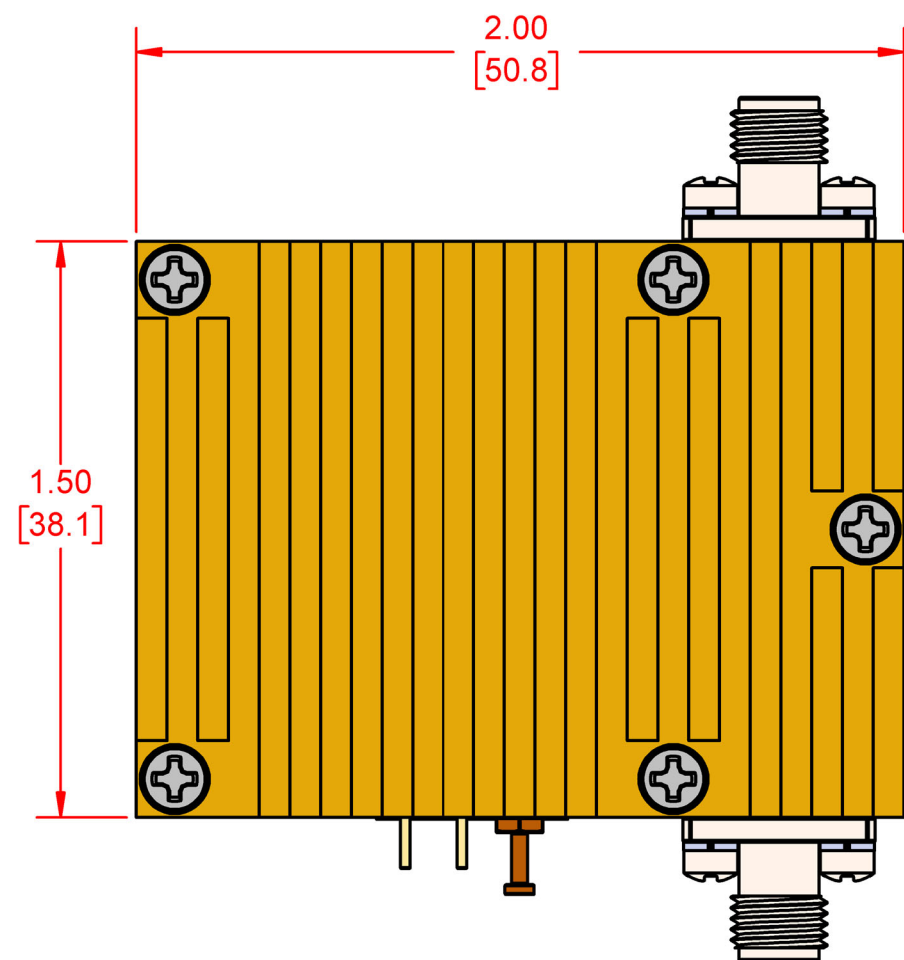
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± .XX ± 0.02 ±
 .XXX ± 0.01

APPROVALS		DATE
DRAWN	R. SIRK	9/26/2022
REDRAWN		
ISSUED		

PLANAR MONOLITHICS INDUSTRIES, INC.

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TITLE			
OUTLINE			
PA-2G18G-43-5-40-SFF			
SIZE	FSCM NO.	DWG NO.	REV.
B	05XQ0	27045180	A2
SCALE 3:2			SHEET 1 OF 2



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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS .XX ± 0.02 ANGLES ± DECIMALS .XXX ± 0.01		APPROVALS		DATE	PLANAR MONOLITHICS INDUSTRIES, INC.  7311-F GROVE ROAD FREDERICK, MARYLAND 21704 USA TEL: (301)-662-5019, FAX: (301)-662-1731 WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com ISO 9001 CERTIFIED			
		DRAWN		9/26/2022				
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					SIZE	FSCM NO.	DWG NO.	REV.
					B	05XQ0	27045180	A2
					SCALE 3:2		SHEET 2 OF 2	