

DESCRIPTION:

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

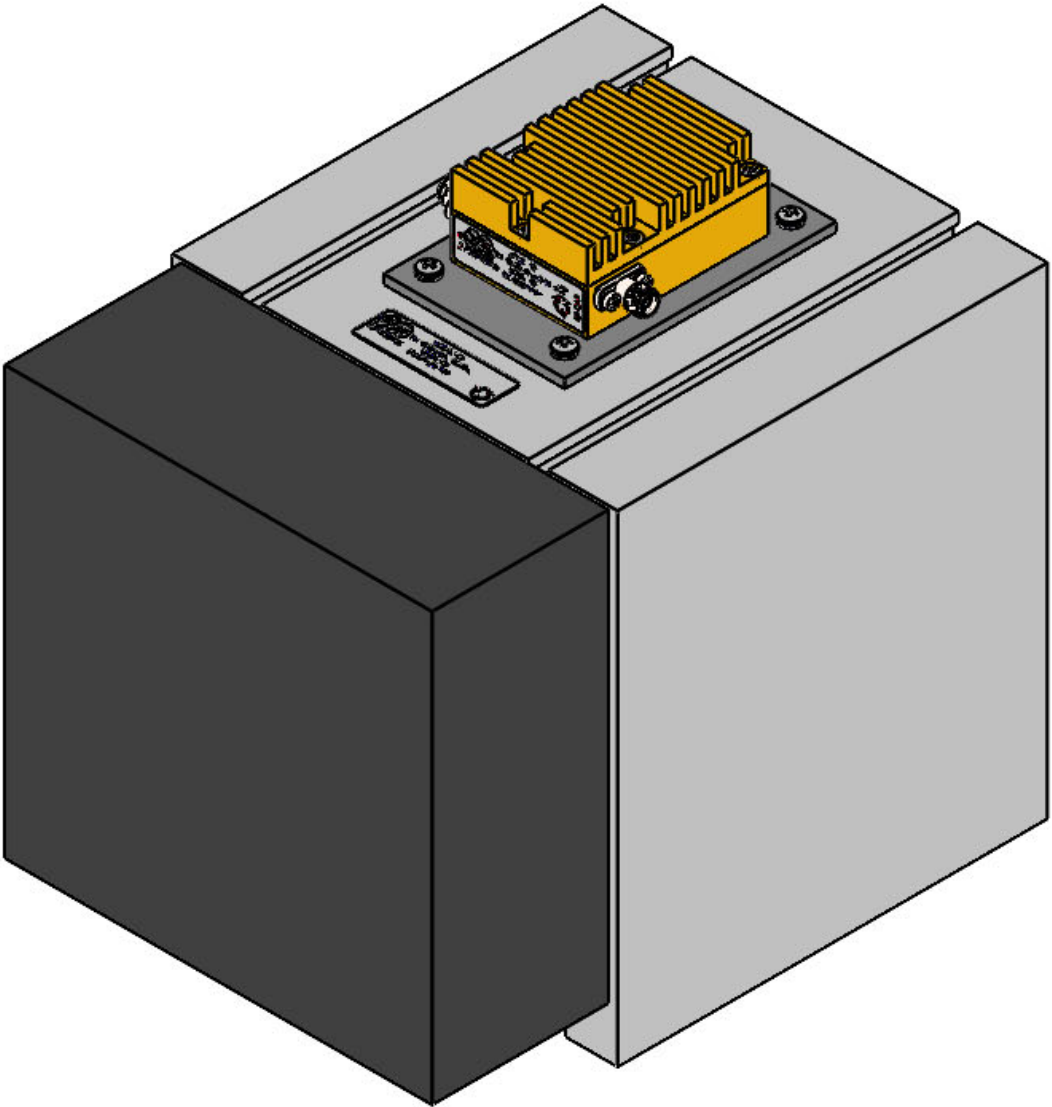
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	9/26/22	
	A4	ECN #24-0362	12/23/24	
	A5	ECN # 25-0051	3/6/25	

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
- CONNECTORS:..... SMA FEMALE REMOVEABLE
- FINISH:..... GOLD PLATED
- OPTION:..... UNIT WITHOUT HEATSINK:
PA-2G18G-43-5-40-SFF
- 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



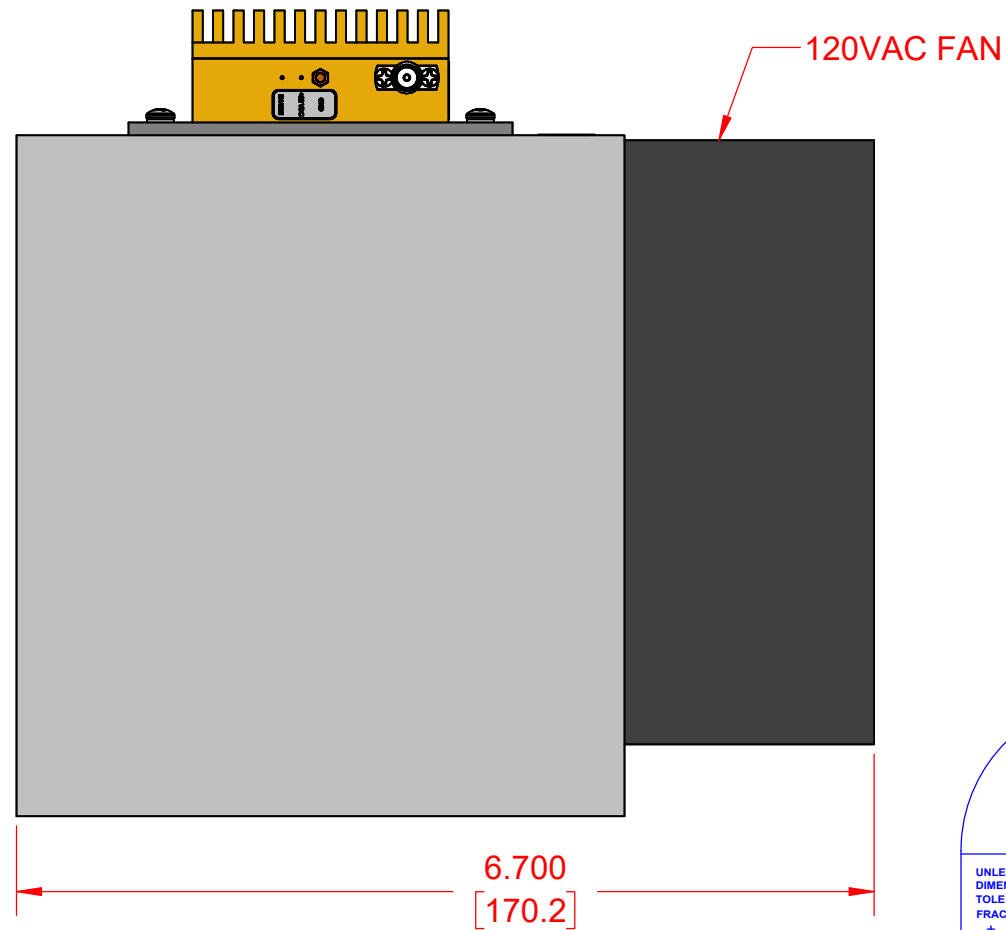
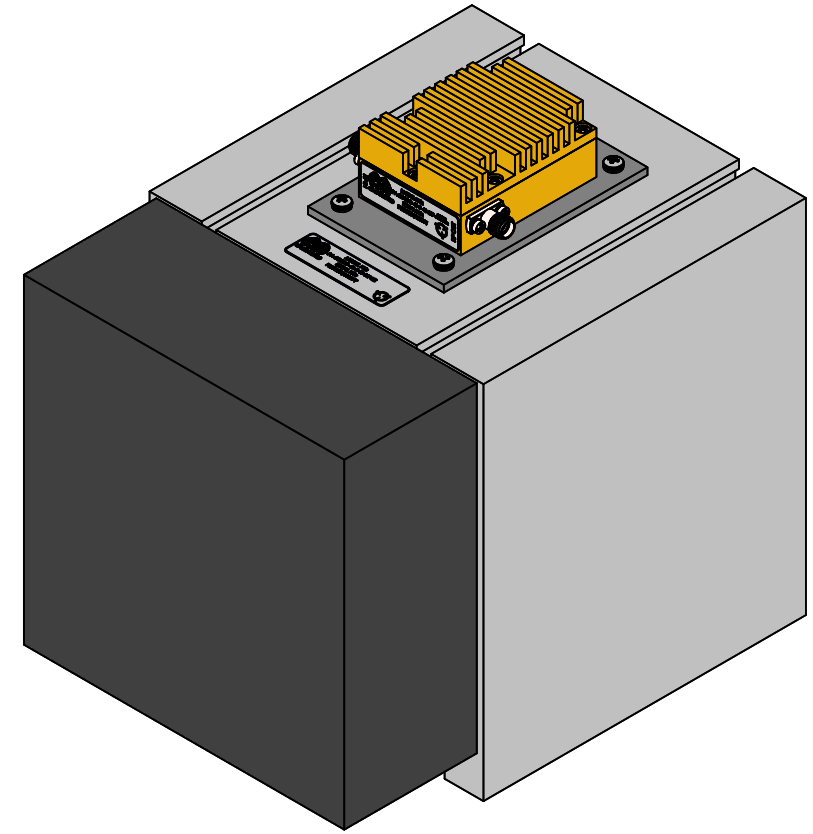
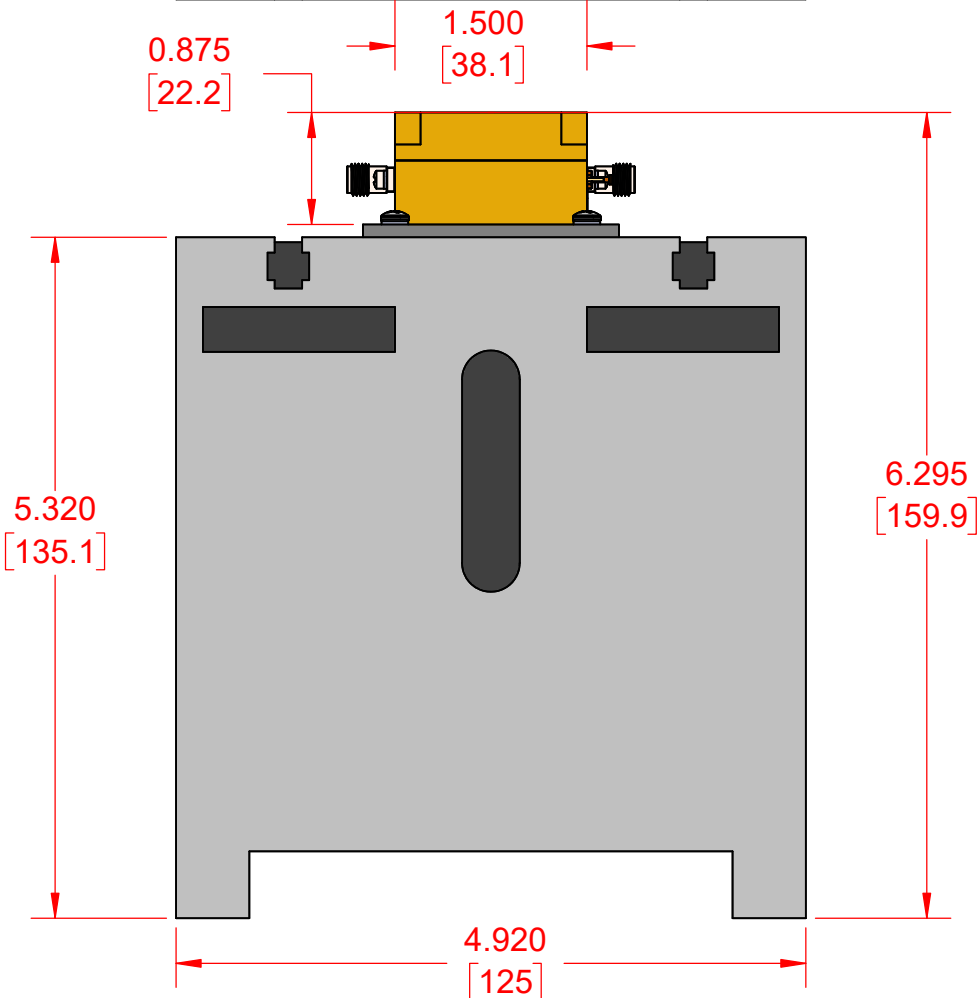
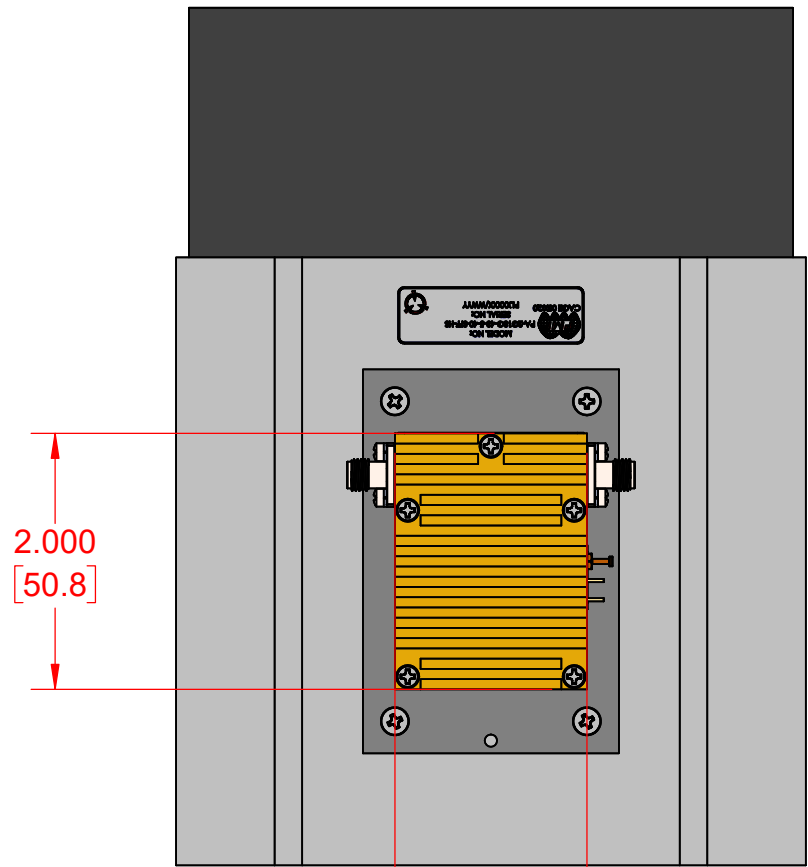
ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -40°C TO +85°C (OPERATING)
-55°C TO +125°C (STORAGE)

PMI CONFIDENTIAL AND PROPRIETARY

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

			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						
			APPROVALS	DATE	TITLE				
			DRAWN R SIRK	9/26/22	OUTLINE				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			REDRAWN		PA-2G18G-43-5-40-SFF-HS				
TOLERANCES ARE:			ISSUED		SIZE	FSCM NO.	DWG NO.	REV.	
FRACTIONS DECIMALS ANGLES					B	05XQ0	27045200	A5	
± .XX ± 0.02 ±					SCALE 1:4			SHEET 1 OF 2	
.XXX ± 0.01									



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

PMI CONFIDENTIAL AND PROPRIETARY



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

APPROVALS		DATE	TITLE			
DRAWN	R SIRK	9/26/22	OUTLINE			
REDRAWN			PA-2G18G-43-5-40-SFF-HS			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			B	05XQ0	27045200	A5
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± ± .XXX ± 0.01			SCALE 1:4		SHEET 2 OF 2	