

DESCRIPTION:

PMI MODEL NUMBER PA-218-45-5-10W-24V-SFF-MICROD IS A 2 TO 18 GHz POWER AMPLIFIER WITH 48 dB MAX GAIN, A NOISE FIGURE OF 5.5 dB MAX AND A SATURATED OUTPUT POWER OF 10 WATTS MIN.

SPECIFICATIONS:

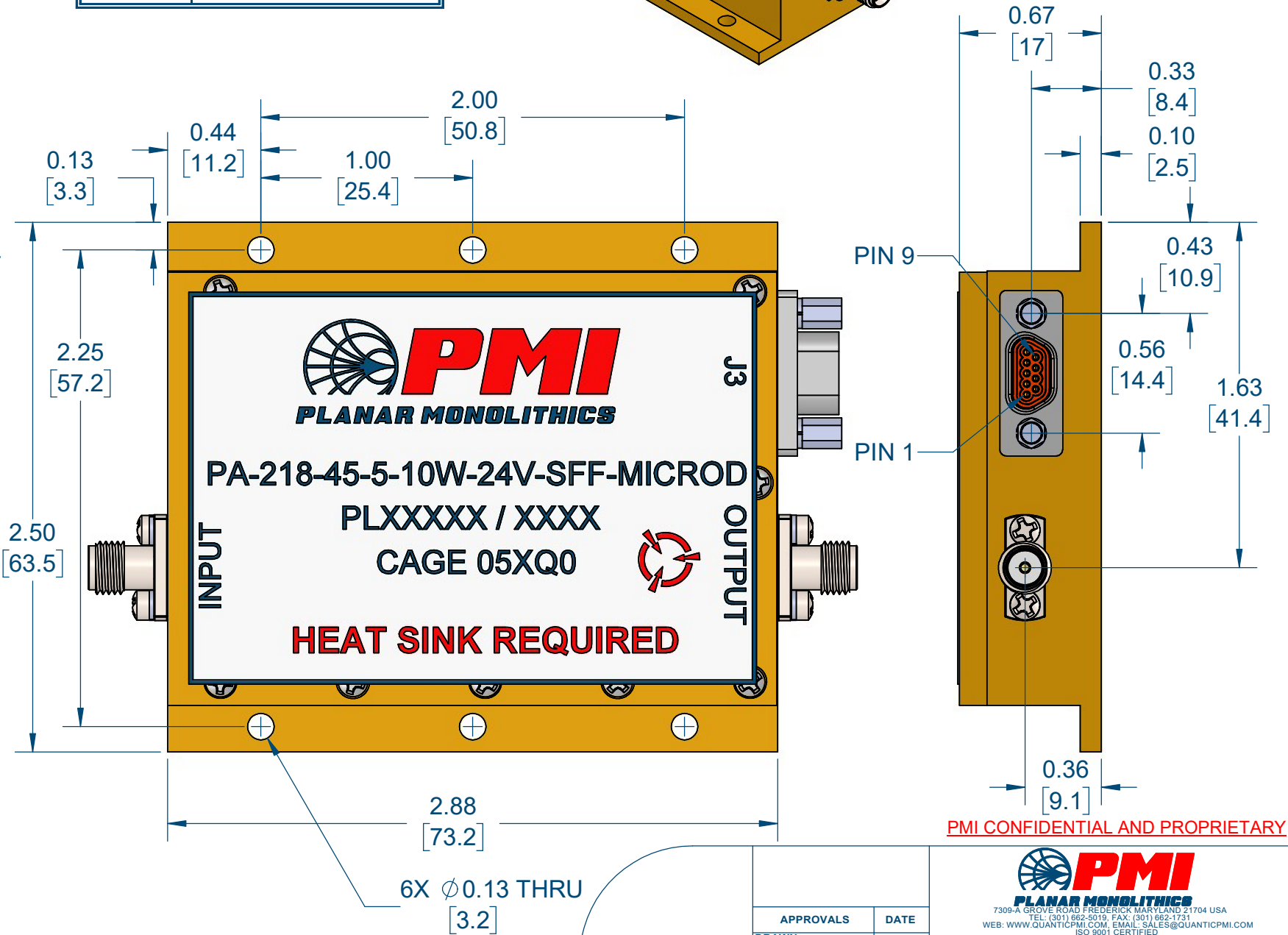
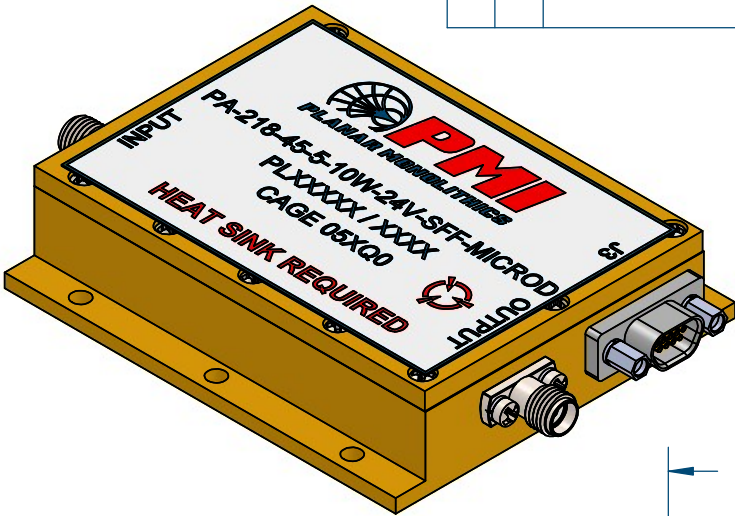
- FREQUENCY RANGE:.....2.0 TO 18.0 GHz
 - GAIN:.....48 dB MAX / 38 dB MIN
 - GAIN FLATNESS:.....±2.5 dB MAX
 - VSWR (INPUT):.....2.0:1 MAX
 - VSWR (OUTPUT):.....2.2:1 MAX
 - NOISE FIGURE:.....5.5 dB MAX
 - RF INPUT POWER:.....+23 dBm CW MAX
 - SATURATED OUTPUT POWER (P_{SAT}): 10 WATTS MIN (+40 dBm)
 - DC VOLTAGE SUPPLY:.....+24V @ 3.9 A MAX (I_{DQ})
@ 4.7 A MAX (P_{SAT})
 - POWER AND CONTROL (ENABLE):... SINGLE CONTROL TTL
"1" = NORMAL OPERATION
"0" = SHUTOFF
 - DETECTION OF OVERHEAT:..... SINGLE TTL SIGNAL
(TEMP SHUTOFF)
"1" = NORMAL OPERATION
"0" = OVERHEAT WITH AUTOMATIC SHUTOFF
 - TEMP SENSOR OUTPUT:.....+2.2V TO +3.6V TYP
 - CONNECTORS:..... RF IN /RF OUT: SMA FEMALE
J3: 9-PIN MICRO-D 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 103 COND. B
- SHOCK:.....MIL-STD-202, METHOD 213 COND. B
- VIBRATION:.....MIL-STD-202, METHOD 204 COND. B
- ALTITUDE:.....MIL-STD-202, METHOD 105 COND. B
- TEMPERATURE CYCLE:.....MIL-STD-202, METHOD 107 COND. A

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

J3: 9-PIN CONNECTOR PIN-OUT	
PIN	FUNCTION
1	+24V
2	GND
3	TEMP SHUTOFF (TTL)
4	TEMP SENSOR+ (V)
5	ENABLE
6	+24V
7	TEMP SENSOR- (V)
8	GND
9	NC



			 PLANAR MONOLITHICS 7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 602-5019 FAX: (301) 602-1731 WEB: WWW.QUANTICPMI.COM EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED		
APPROVALS			DATE		
DRAWN E. CASTILLO			6/24/2026		
REDRAWN			TITLE OUTLINE		
			PA-218-45-5-10W-24V-SFF-MICROD		
ISSUED			SIZE B	FSCM NO. 05XQ0	DWG NO. 27054840
			SCALE 3:2		REV. A1
					SHEET 1 OF 1

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

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	6/24/2026	

PMI CONFIDENTIAL AND PROPRIETARY



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