

PMI MODEL NUMBER PA-218-45-5-10W-22V-SFF 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 (Psat): _____ 10 WATTS MIN (+40 dBm)
- DC VOLTAGE SUPPLY: _____ +22V @ 3.9 A MAX (NO RF SIGNAL)
@ 4.7 A MAX (Psat)
- POWER AMP CONTROL (ENABLE): _____ "0" = 0 V ON (INTERNALLY PULLED LOW)
"1" = +3 V OFF
- SIZE: _____ 2.88" X 2.50" X 0.67"
- CONNECTORS: _____ SMA FEMALE
- FINISH: _____ GOLD PLATED

Technical drawing of the PA-218-45-5-10W-22V-SFF power amplifier module, showing top and side views with dimensions in inches and millimeters.

Top View Dimensions:

- Overall Width: 2.88" [73.2]
- Overall Height: 2.50" [63.5]
- Input Port Offset: 0.13" [3.3]
- Input Port Spacing: 0.44" [11.2]
- Internal Spacing: 1.00" [25.4]
- Output Port Spacing: 1.00" [25.4]
- Mounting Hole Diameter: 6X ϕ 0.125 [3.2] THRU

Side View Dimensions:

- Overall Height: 1.63" [41.4]
- Mounting Flange Thickness: 0.23" [5.8]
- Mounting Hole Diameter: 0.36" [9.1]
- Mounting Hole Spacing: 0.46" [11.7]
- Mounting Hole Offset: 0.18" [4.6]
- Mounting Hole Diameter: 0.10" [2.5]
- Mounting Hole Spacing: 0.67" [17]
- Mounting Hole Offset: 0.43" [10.9]

Module Label:

Quantic[™] PMI
PLANAR MONOLITHICS
PA-218-45-5-10W-22V-SFF
PLXXXXX / XXXX
CAGE 05XQ0
HEAT SINK REQUIRED

Additional Labels:

- +VDC (GND) ENB
- INPUT
- OUTPUT
- 2 PLACES, SMA FEMALE

- 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

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

PMI CONFIDENTIAL AND PROPRIETARY

			Quantic PMI PLANNR MONDLITHICS 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-218-45-5-10W-22V-SFF	
	DRAWN S AZHAR		12/12/2025			
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01		REDRAWN			
		ISSUED				
				SCALE 1.5:1		SHEET 1 OF 1