

## DESCRIPTION

PMI MODEL: GMPA-8217-7 IS AN AMPLIFIER OPERATING OVER THE 8.5 TO 17.5 GHz FREQUENCY RANGE WITH SMALL SIGNAL GAIN FROM 6.0 TO 9.0 dB, AND A P1dB OUTPUT POWER OF +22 dBm.

## SPECIFICATIONS

- FREQUENCY RANGE: ----- 8.5 TO 17.5 GHz
- SMALL SIGNAL GAIN: ----- 6.0 TO 9.0 dB (OVER TEMP)
- OUTPUT POWER: ----- +22 dBm P1dB MINIMUM
- VSWR (IN/OUT): ----- 2.0:1 MAXIMUM
- GAIN VS. FREQUENCY: ----- ±1 dB MAXIMUM
- IMPEDANCE: ----- 50 Ω
- NOISE OUTPUT: ----- -85 dBm/MHz MAXIMUM
- HARMONICS: ----- -10 dBc @ +19 dBm INPUT
- SATURATED POWER: ----- +28 dBm MAXIMUM
- DC SUPPLY: ----- +15 VDC @ 700 mA
- CONNECTORS: ----- SMA FEMALE
- SIZE: ----- 39.62 mm x 25.40 mm x 15.24 mm  
1.56" x 1.00" x 0.60"
- FINISH: ----- BLUE EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.

## ENVIRONMENTAL RATINGS

- 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

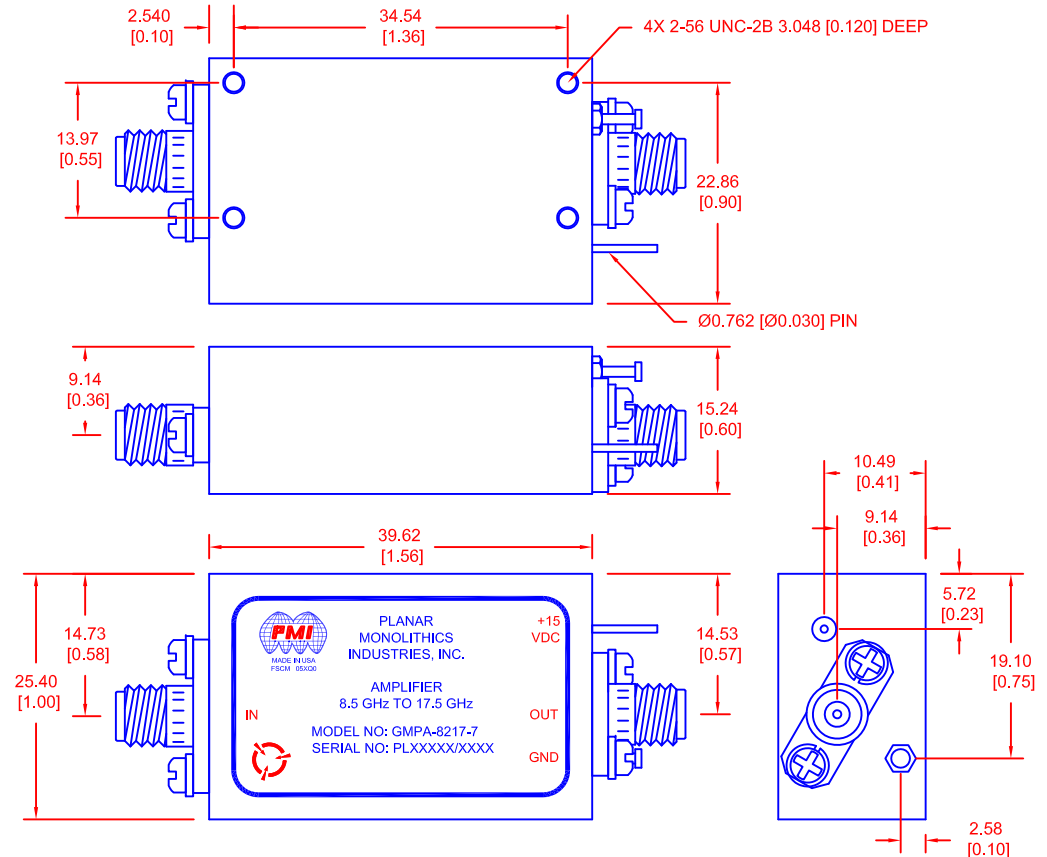
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS  
ARE IN mm (INCH)  
TOLERANCES:  
X.XX ±0.508 [0.020]  
X.XXX ±0.254 [0.010]

**PMI CONFIDENTIAL AND PROPRIETARY**

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ECN # 16-0056	04/19/16	
	B1	ECN # 17-0064	04/6/17	
	C1	ECN # 18-0172	08/3/18	

## MECHANICAL OUTLINE



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APPROVALS		DATE	TITLE			
DRAWN <i>M. Berry</i>		4/19/16	PRODUCT FEATURE GMPA-8217-7			
CHECKED			SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0	DWG000085-PMI	C1
			SCALE	N:S	SHEET	1 OF 1