

## DESCRIPTION

PMI MODEL: PMC-1G2M1G8M-SMA IS A MONOPULSE COMPARATOR OPERATING OVER THE 1.2 TO 1.8 GHz FREQUENCY RANGE. THIS MODEL OFFERS A MAXIMUM 1 dB INSERTION LOSS WHILE MAINTAINING A MAXIMUM AMPLITUDE BALANCE OF  $\pm 0.9$  dB AND A MAXIMUM PHASE BALANCE OF  $\pm 5^\circ$ .

## SPECIFICATIONS

- FREQUENCY RANGE: ----- 1.2 GHz TO 1.8 GHz
- INSERTION LOSS: ----- 1 dB MAXIMUM
- NOMINAL SPLIT: ----- 6.02 dB
- AMPLITUDE BALANCE: -----  $\pm 0.9$  dB MAXIMUM
- PHASE BALANCE: -----  $\pm 5^\circ$  MAXIMUM
- ISOLATION: ----- 21 dB MINIMUM
- VSWR: ----- 1.4:1 MAXIMUM
- POWER HANDLING: ----- AVERAGE: 10 WATT MAXIMUM  
PEAK: 0.1 KW MAXIMUM
- IMPEDANCE: ----- 50  $\Omega$
- CONNECTORS: ----- SMA FEMALE
- SIZE: ----- 3.5" x 2.2" x 0.43"  
EXCLUDING CONNECTORS
- FINISH: ----- PAINTED BLUE.

A to ELA	A to AZΣ	A to ΔQ	A to AZΔ
0°	-90°	-180°	-270°
C to ELA	C to AZΣ	C to ΔQ	C to AZΔ
0°	90°	180°	270°

## 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

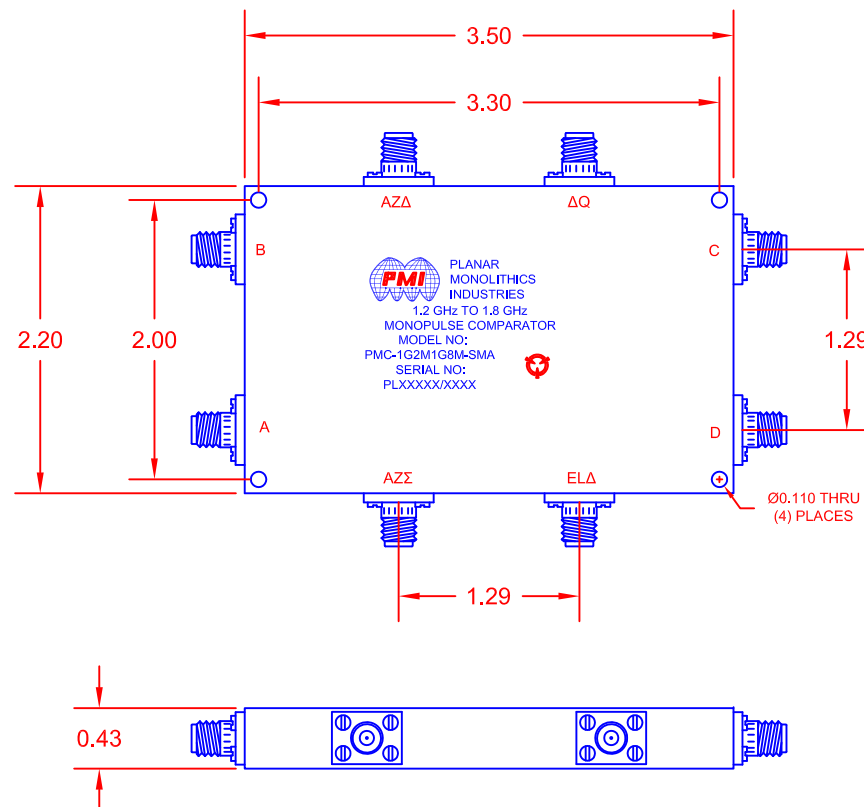
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

**PMI CONFIDENTIAL AND PROPRIETARY**

ALL DIMENSIONS  
ARE IN INCHES  
TOLERANCES:  
X.XX  $\pm$  0.508 [0.020]

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	12/13/2021	

## MECHANICAL OUTLINE



## PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



		TITLE  PRODUCT FEATURE 1.2 TO 1.8 GHz Monopulse Comparator PMC-1G2M1G8M-SMA			
APPROVALS	DATE				
DRAWN <i>AF</i>	12/13/21				
REDRAWN					
ISSUED					
		SIZE A	FSCM NO. 05XQ0	DWG NO.	REV.
		SCALE N:S			SHEET 1 OF 1