

## DESCRIPTION

PMI MODEL: PMC-33G36G-292FF IS A MONOPULSE COMPARATOR OPERATING OVER THE 33 TO 36 GHz FREQUENCY RANGE. THIS MODEL OFFERS A MAXIMUM 5 dB INSERTION LOSS WHILE MAINTAINING A MAXIMUM AMPLITUDE BALANCE OF  $\pm 1.5$  dB AND A MAXIMUM PHASE BALANCE OF  $\pm 20^\circ$ .

## SPECIFICATIONS

- FREQUENCY RANGE: ----- 33 GHz TO 36 GHz
- INSERTION LOSS: ----- 5 dB MAXIMUM
- NOMINAL SPLIT: ----- 6.02 dB
- AMPLITUDE BALANCE: -----  $\pm 1.5$  dB MAXIMUM
- PHASE BALANCE: -----  $\pm 20^\circ$  MAXIMUM
- ISOLATION: ----- 10 dB MINIMUM
- VSWR: ----- 2.0:1 MAXIMUM
- POWER HANDLING: ----- AVERAGE: 10 WATT MAXIMUM  
PEAK: 1 KW MAXIMUM
- IMPEDANCE: ----- 50  $\Omega$
- CONNECTORS: ----- 2.92 FEMALE
- SIZE: ----- 3.0" x 3.0" x 0.433"  
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

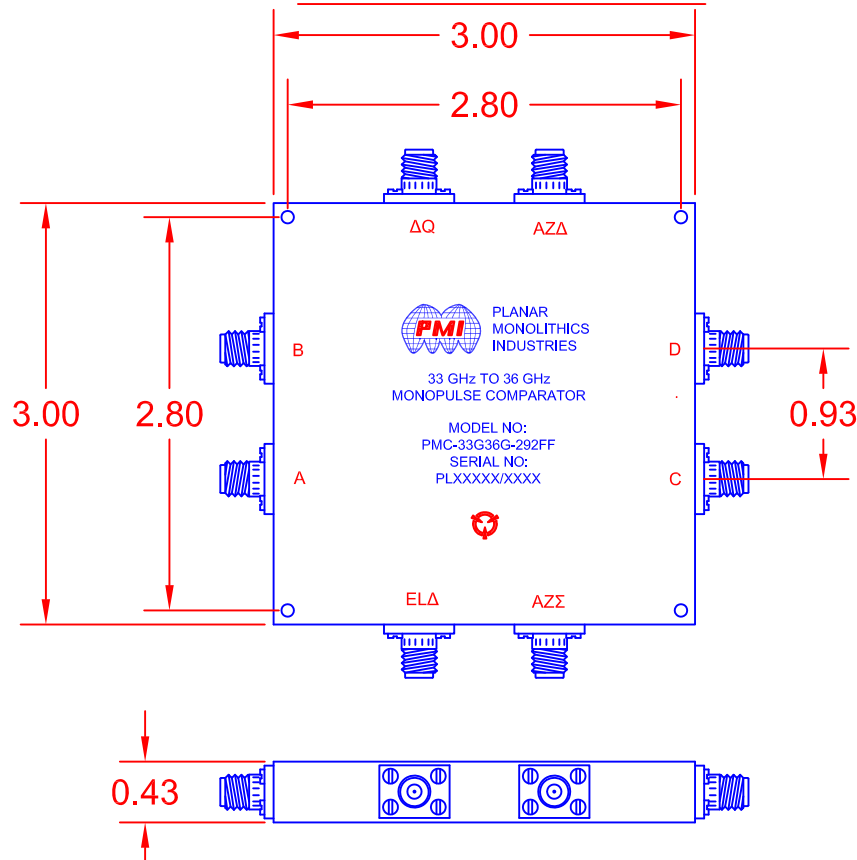
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

**PMI CONFIDENTIAL AND PROPRIETARY**

ALL DIMENSIONS  
ARE IN INCHES  
TOLERANCES:  
X.XX ± 0.508 [0.020]

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	12/13/21	

## MECHANICAL OUTLINE



## PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



		TITLE  PRODUCT FEATURE 33 TO 36 GHz Monopulse Comparator PMC-33G36G-292FF					
APPROVALS	DATE						
DRAWN <i>AF</i>	<i>12/13/21</i>						
REDRAWN							
ISSUED		SIZE A	FSCM NO. 05XQ0	DWG NO.		REV.	
		SCALE N:S			SHEET 1 OF 1		