

## DESCRIPTION

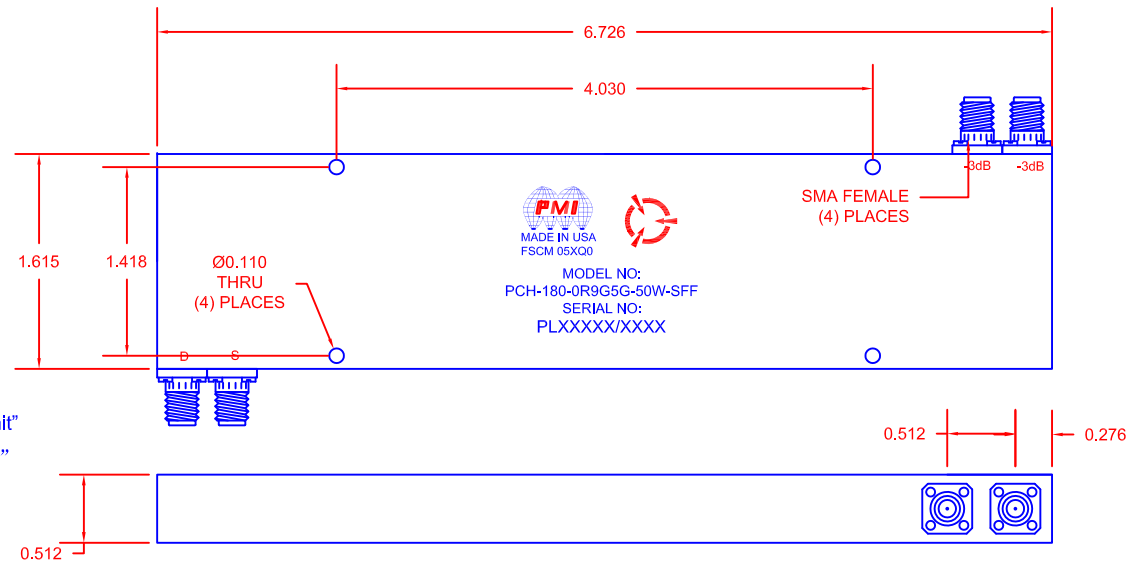
PMI MODEL NO. PCH-180-0R9G5G-50W-SFF IS A 180 DEGREE HYBRID COUPLER THAT OPERATES OVER THE FREQUENCY RANGE OF 0.9 TO 6.0 GHz.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	9/27/2023	

## MECHANICAL OUTLINE

## SPECIFICATIONS

- FREQUENCY RANGE: ----- 0.9 TO 6.0 GHz
- NOMINAL SPLIT: ----- 3.01 dB
- INSERTION LOSS: ----- 1.9 dB MAX
- ISOLATION: ----- 16 dB MIN
- AMPLITUDE BALANCE: -----  $\pm 1.0$  dB MAX
- PHASE BALANCE: -----  $\pm 12^\circ$  MAX
- VSWR: ----- 1.5:1 MAX
- POWER HANDLING: ----- AVERAGE: 50 WATTS MAX  
PEAK: 1 KW MAX
- IMPEDANCE: ----- 50 OHMS
- CONNECTORS: ----- SMA FEMALE
- AMPLITUDE TRACKING: -----  $\leq \pm 0.5$ dB unit to unit to a "golden unit"
- PHASE TRACKING: -----  $\leq \pm 15^\circ$  unit to unit to a "golden unit"



## ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -55 °C TO +85 °C (OPERATING)  
-65 °C TO +125 °C (STORAGE)
- HUMIDITY: ----- UP TO 95%, NON-CONDENSING
- 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 INCHES [mm]  
TOLERANCES:  
X.XX  $\pm 0.020$   
X.XXX  $\pm 0.010$

**PMI CONFIDENTIAL AND PROPRIETARY**

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE				REV.
DRAWN <i>AF</i>		9/27/23	PRODUCT FEATURE PCH-180-0R9G5G-50W-SFF				-
REDRAWN			SIZE	FSCM NO.	DWG NO.		
ISSUED			A	05XQ0		PRELIMINARY	
			SCALE	N:S	SHEET	1 OF 1	