

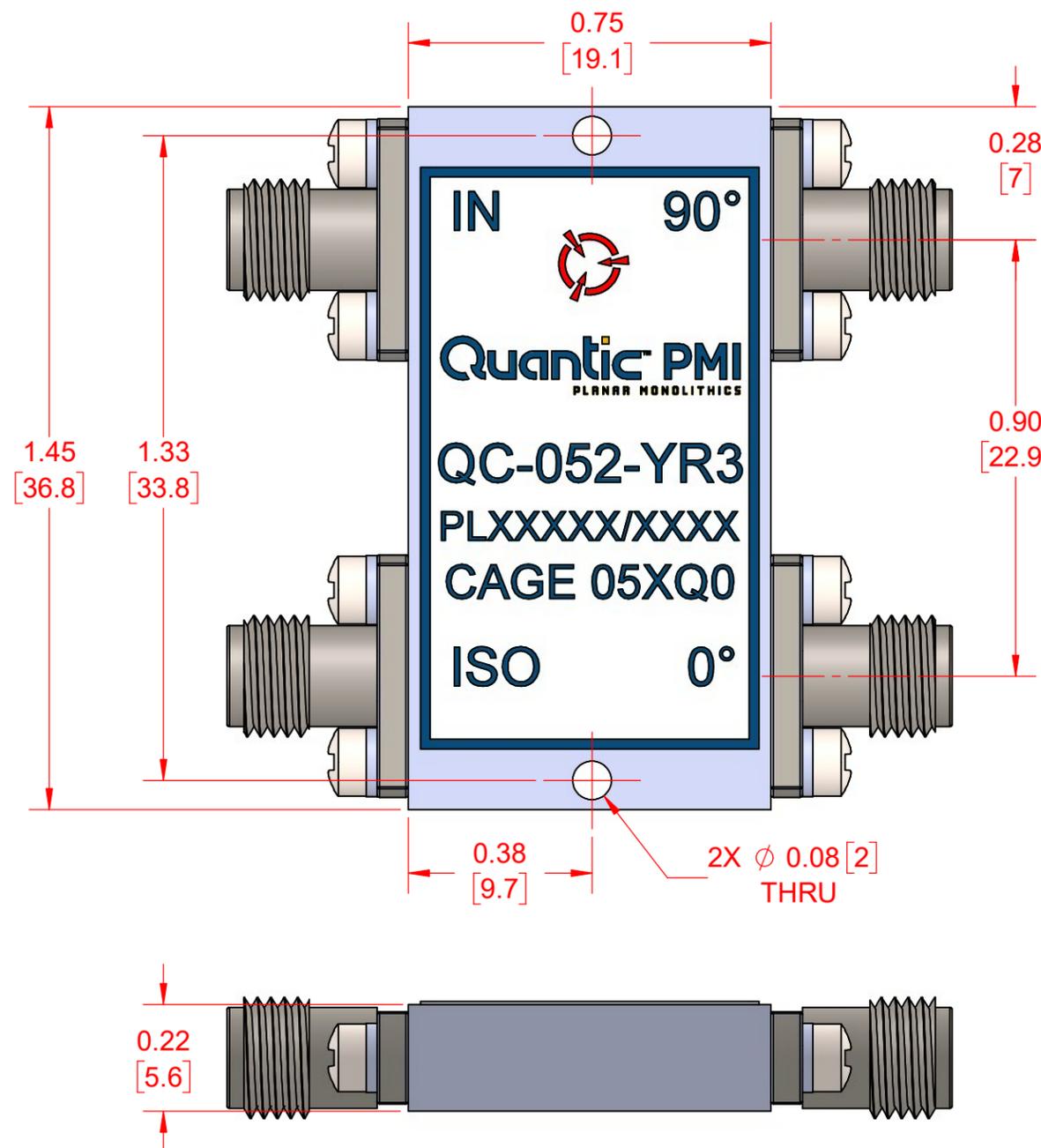
**DESCRIPTION:**

PMI MODEL NUMBER QC-052-YR3 IS A 3dB, 90 DEGREE QUADRATURE COUPLER THAT WHEN A SIGNAL IS APPLIED TO ANY PORT WILL SPLIT EQUALLY BETWEEN THE PORTS ON THE OTHER SIDE WITH THE ADJACENT PORT REMAINING ISOLATED. THE PHASE RELATIONSHIP IS 0° TO THE PORT DIRECTLY OPPOSITE AND -90° TO THE PORT ON THE DIAGONAL.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	8/11/2025	

**SPECIFICATIONS:**

- FREQUENCY RANGE:..... 0.5 TO 2.0 GHz
- NOMINAL SPLIT:..... 3.01 dB
- INSERTION LOSS:..... 0.4 dB MAXIMUM
- ISOLATION:..... 18 dB MINIMUM
- AMPLITUDE BALANCE:..... ±2.5 dB MAXIMUM
- PHASE BALANCE:..... ±2.5° MAXIMUM
- VSWR (ALL PORTS):..... 1.5:1 MAXIMUM
- RF INPUT POWER HANDLING:..... 30 W CW MAXIMUM  
1 kW PEAK MAXIMUM (1µs PW, 1% DC)
- PORT CONNECTORS:..... SMA FEMALE (REMOVABLE)
- SIZE:..... 1.45" X 0.75" X 0.22"
- FINISH:..... PAINTED BLUE



**ENVIRONMENTAL RATINGS:**

- TEMPERATURE:..... -55°C TO +85°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- ALTITUDE:..... MIL-STD-202F, METHOD 105C COND. B
- HUMIDITY:..... MIL-STD-202F, METHOD 103B COND. B
- SHOCK:..... MIL-STD-202F, METHOD 213B COND. B
- VIBRATION:..... MIL-STD-202F, METHOD 204D COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202F, METHOD 107D COND. A

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

PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS DRAWN S AZHAR REDRAWN ISSUED		DATE		TITLE OUTLINE QC-052-YR3	
		8/11/2025			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS    DECIMALS    ANGLES ±                    .XX ± 0.02                    ± .XXX ± 0.01		SIZE	FSCM NO.	DWG NO.	REV.
		B	05XQ0	27052760	A1
		SCALE 3:1			SHEET 1 OF 1

**Quantic PMI**  
PLANAR MONOLITHICS

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