

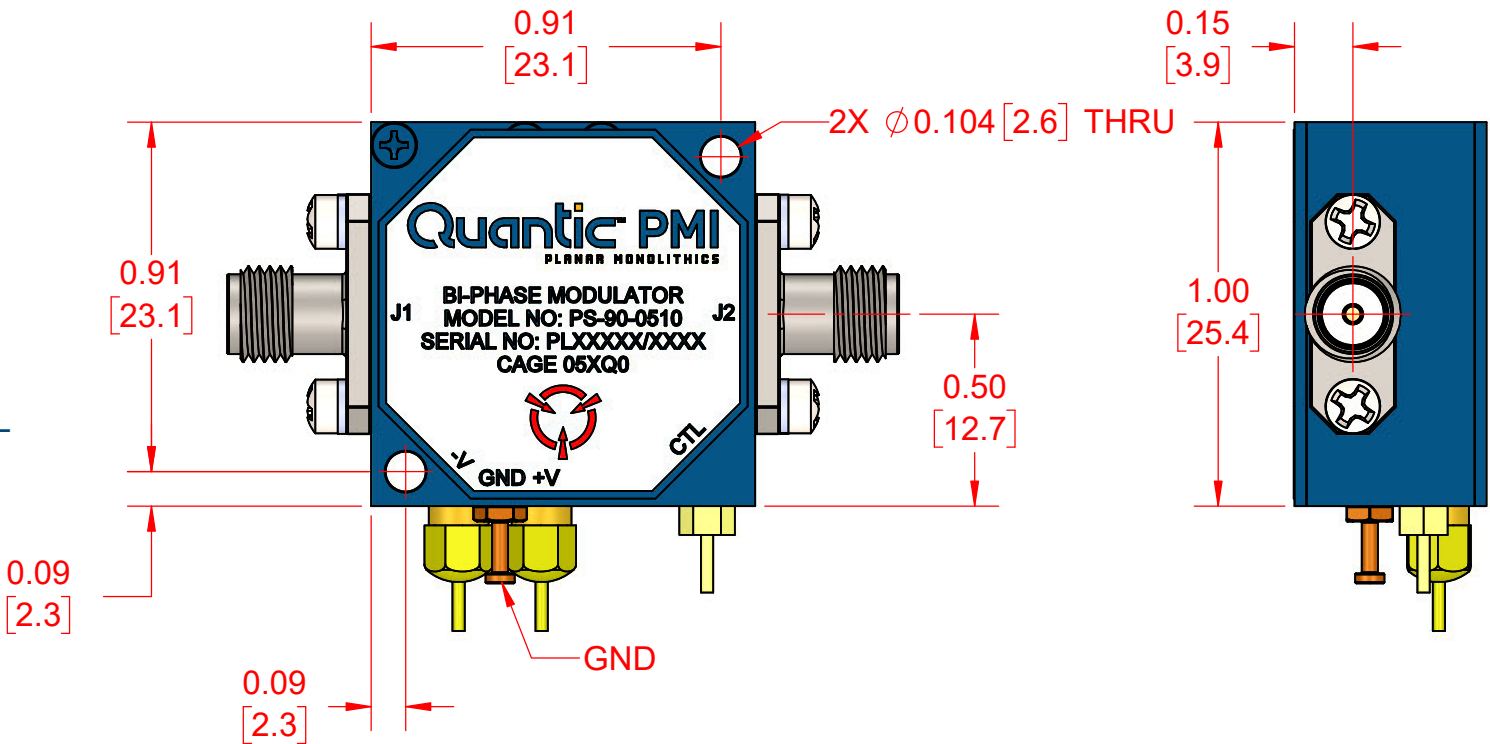
DESCRIPTION:

PMI MODEL NUMBER PS-90-0510 IS A 0° TO 180°, MINIATURE, SINGLE BALANCED, BI-PHASE MODULATOR/SHIFTER WITH TTL CONTROL LOGIC.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	7/3/2019	
	A2	ECN # 20-0028	3/13/2025	
	A3	ECN # 25-0086	3/21/2025	

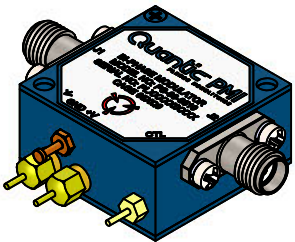
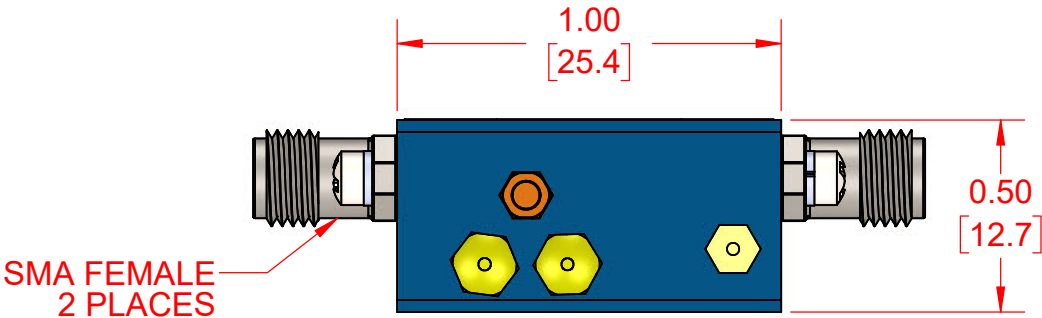
SPECIFICATIONS:

- FREQUENCY RANGE:..... 0.5 TO 1 GHz
- INSERTION LOSS:..... 2.5 dB TYP, 3.0 dB MAX
- VSWR:..... 2.0 : 1 MAX
- SWITCHING SPEED:..... RISE: 10 ns TYP, 15 ns MAX
FALL: 10 ns TYP, 15 ns MAX
DELAY ON: 50 ns TYP, 75 ns MAX
DELAY OFF: 55 ns TYP, 75 ns MAX
- PHASE STATES:..... 0°/180° ±10° TYP
- RF INPUT POWER:..... +20 dBm OPERATING CW,
0.5W @ 1 us PULSE WIDTH SURVIVAL
- CARRIER SUPPRESSION:..... 15 dB, 20 dB TYP
- CONTROL:..... TTL (ECL IS AVAILABLE)
- POWER SUPPLY:..... +5V @ 75 mA MAX
-5V @ 20 mA MAX
- SIZE:..... 1.00 " x 1.00" x 0.5"
- WEIGHT:..... ≤2.0 OZ
- FINISH:..... PAINTED BLUE



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -40°C TO +85°C (OPERATING)
-40°C TO +100°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 TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± .XX ± 0.02 ±
± .XXX ± 0.01 ±

APPROVALS		DATE
DRAWN	NJA	7/3/2019
REDRAWN		
ISSUED		

Quantic PMI

PLANAR MONOLITHICS

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ISO 9001 CERTIFIED

TITLE

OUTLINE

PS-90-0510

SIZE	FSCM NO.	DWG NO.	REV.
B	05XQ0	27236860	A3

SCALE 2:1	SHEET 1 OF 1
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