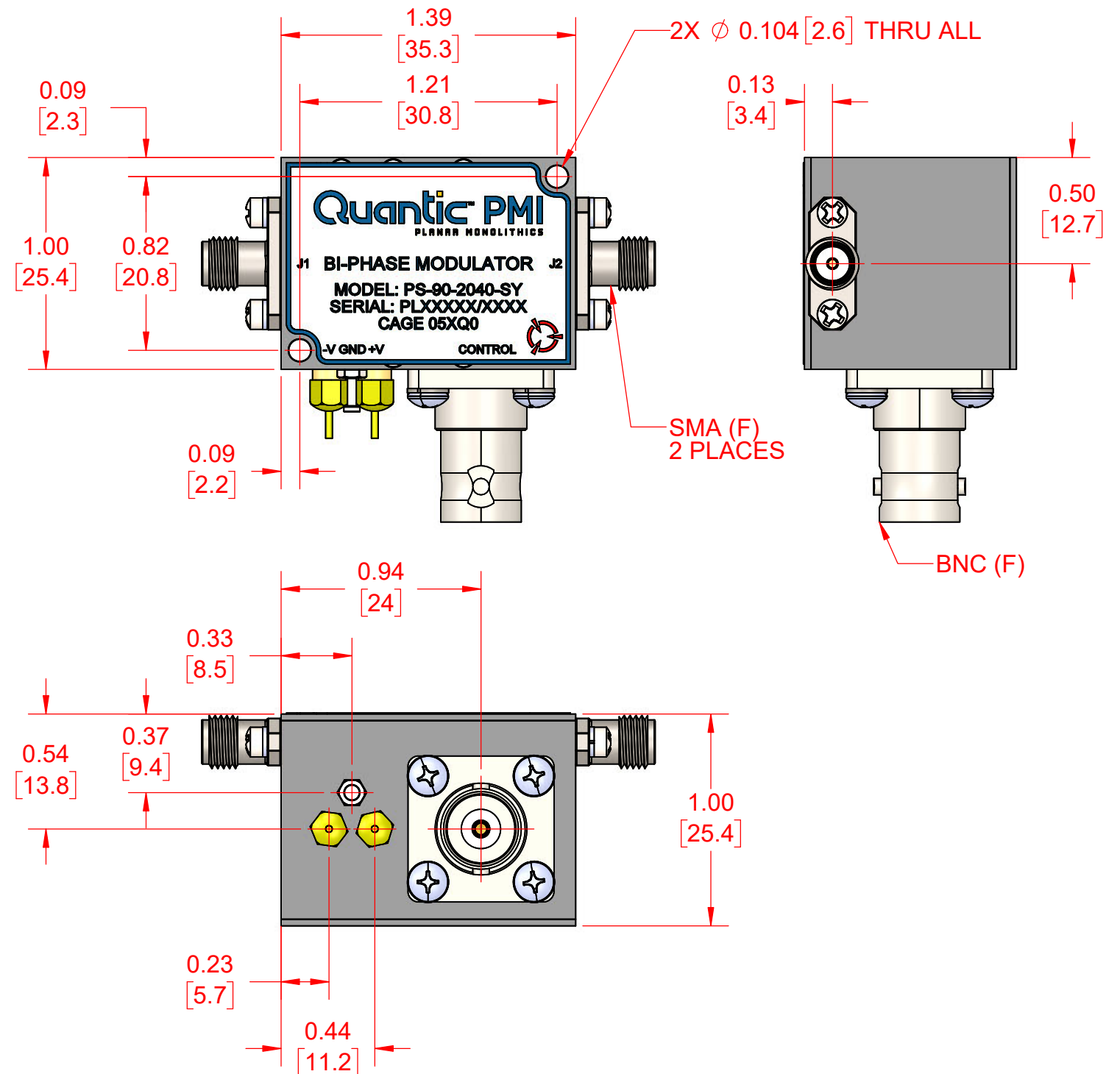


PMI MODEL NUMBER PS-90-2040-SY IS A MINIATURE, 0 TO 180° BI-PHASE MODULATOR/PHASE SHIFTER WITH TTL CONTROL LOGIC OPERATING OVER A FREQUENCY RANGE OF 2856 MHz $\pm$ 15 MHz.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	1/25/2008	

- FREQUENCY RANGE:..... 2856 MHz $\pm$ 15 MHz
- RF IMPEDANCE:..... 50 Ω NOMINAL
- DIFFERENTIAL PHASE SHIFT:..... 180° $\pm$ 2°
- DIFFERENTIAL INSERTION LOSS:..... 0.3 dB MAXIMUM
- INSERTION LOSS:..... 1.0 dB MAXIMUM
- VSWR INPUT:..... 1.2:1 MAXIMUM
- CONTROL INPUT:..... TTL, 1 UNIT LOAD
- SWITCHING TIME:..... 50 ns MAXIMUM, 10% TO 90%
- RF INPUT POWER:..... 1.0 WATT CW MAXIMUM
- POWER SUPPLY:..... +5V @ 70 mA MAXIMUM
-12V @ 30 mA MAXIMUM
- DC CONNECTORS:..... RFI FILTER, SOLDER TERMINAL
- FINISH:..... PAINTED GRAY



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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: <table><tr><td>FRACTIONS</td><td>DECIMALS</td><td>ANGLES</td></tr><tr><td>$\pm$</td><td>.XX $\pm$ 0.02</td><td>$\pm$</td></tr><tr><td></td><td>.XXX $\pm$ 0.01</td><td></td></tr></table>	FRACTIONS	DECIMALS	ANGLES	$\pm$	.XX $\pm$ 0.02	$\pm$		.XXX $\pm$ 0.01			Quantic PMI PLANAR MONOLITHICS 7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 662-9019 FAX: (301) 662-1731 WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED			
	FRACTIONS	DECIMALS	ANGLES											
	$\pm$	.XX $\pm$ 0.02	$\pm$											
		.XXX $\pm$ 0.01												
	APPROVALS	DATE	TITLE OUTLINE PS-90-2040-SY											
DRAWN PMV	1/25/2008													
REDRAWN J ESCANO	2/25/2025	SIZE B FSCM NO. 05XQ0 DWG NO. 27008307 REV. A1												
ISSUED														
		SCALE 2:1		SHEET 1 OF 1										