

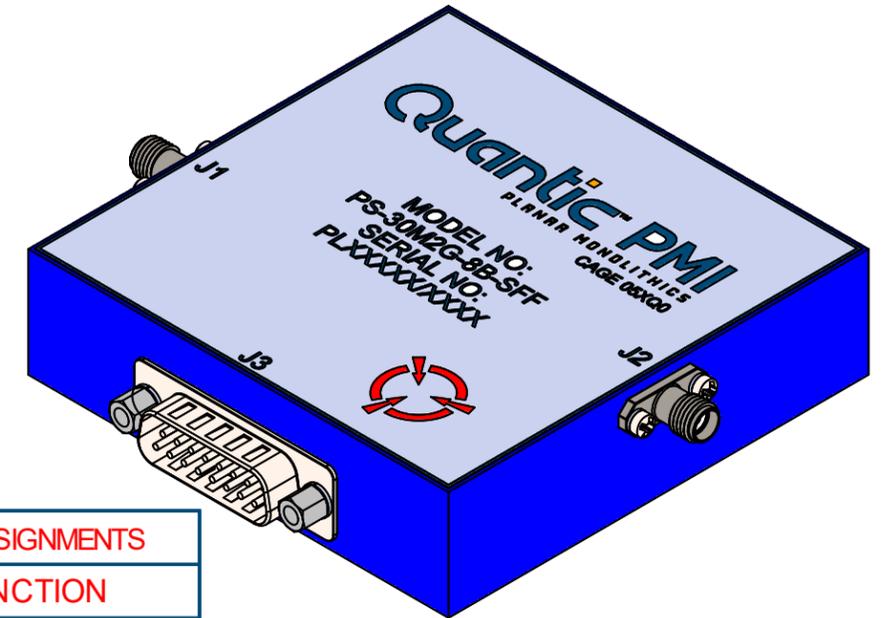
DESCRIPTION:

PMI MODEL NUMBER PS-30M2G-8B-SFF IS A 0.03 TO 2.0 GHz DIGITALLY CONTROLLED ANALOG PHASE SHIFTER WITH CAPABILITY FOR PHASE SHIFTING FROM 0° TO 360°. THE UNIT CONSISTS OF AN ANALOG PHASE SHIFTER AND A DIGITAL-TO-ANALOG CONVERTER. EIGHT LOGIC INPUTS ALLOW 256 DISCRETE VALUES OF PHASE

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	2/22/2023	
	B2	ECN # 23-0230	11/30/2023	
	C1	ECN # 25-0007	1/13/2025	

SPECIFICATIONS:

- FREQUENCY RANGE:..... 0.03 TO 2.0 GHz
- CONTROL:..... 8 BIT TTL
- INSERTION LOSS:..... 14 dB MAX
- VSWR:..... 2.0:1 MAX
- PHASE SHIFT:..... 360° TYP
- AMPLITUDE ERROR:..... ±1.5 dB MAX
±1.0 dB TYP
- PHASE SHIFT ERROR:..... ±10° TYP
- SWITCHING SPEED:..... 500 ns MAX
- POWER SUPPLY:..... +12V TO +15V @ 275 mA MAX
-5V TO -15V @ 75 mA MAX
- SIZE:..... 3.25" X 3.25" X 0.84"
- CONNECTORS (RF):..... SMA FEMALE REMOVEABLE
- CONNECTORS (CONTROL):..... 15 PIN SUBMINIATURE D (MALE)
- FINISH:..... PAINTED BLUE



ELECTRICAL CONNECTOR PIN ASSIGNMENTS

PIN	FUNCTION
1	-VDC
2	+VDC
3	N/C
4	1.4° (LSB)
5	5.6°
6	45°
7	180° (MSB)
8	90°
9	GND
10	N/C
11	22.5°
12	2.8°
13	11.3°
14	N/C
15	N/C

ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... 0°C TO +50°C (OPERATING)
-55°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

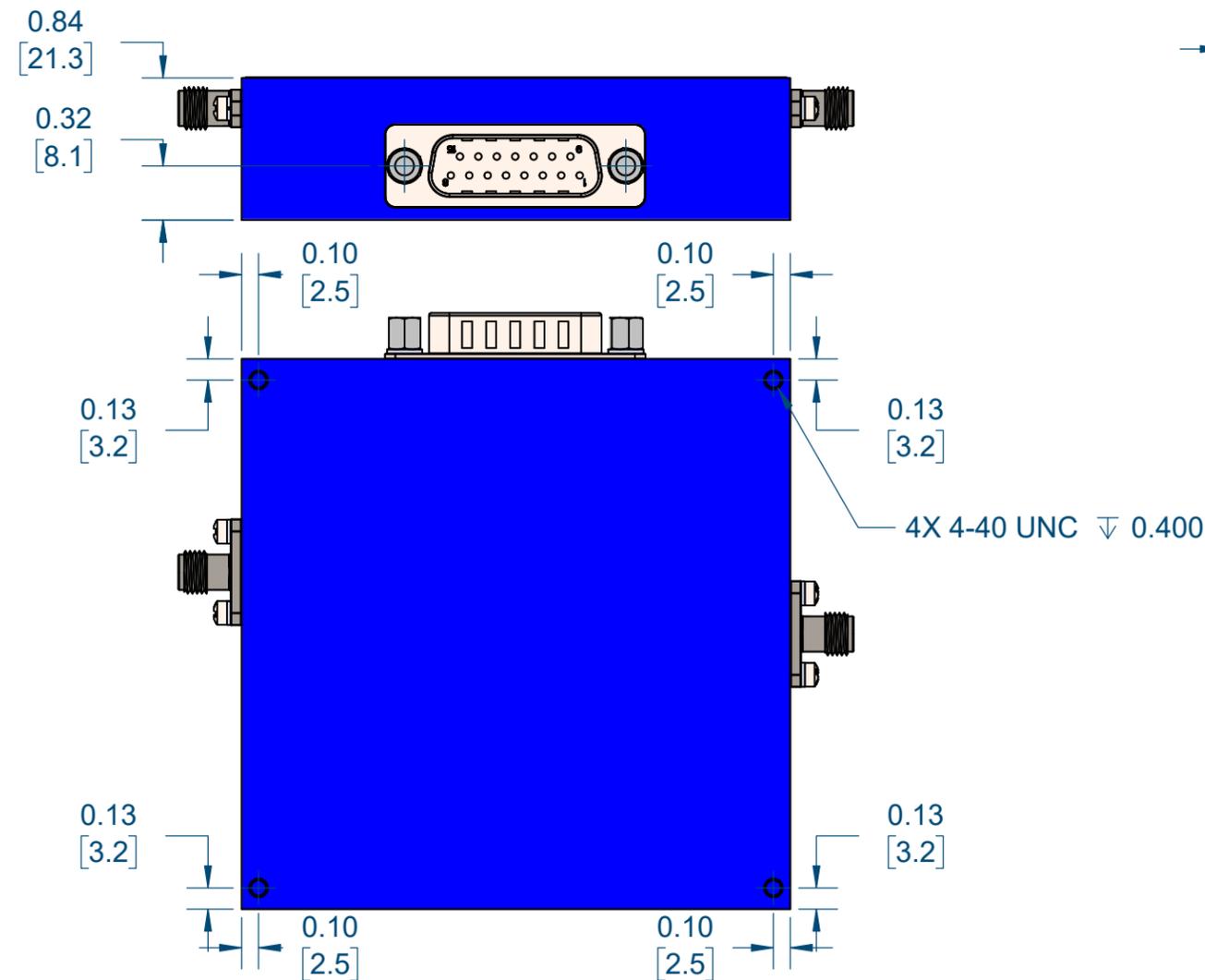
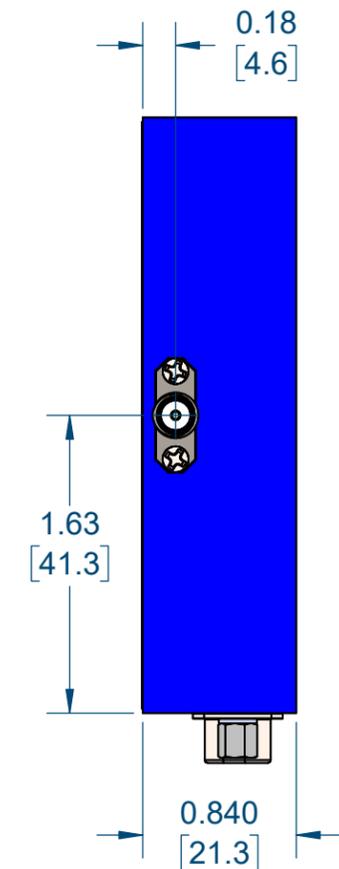
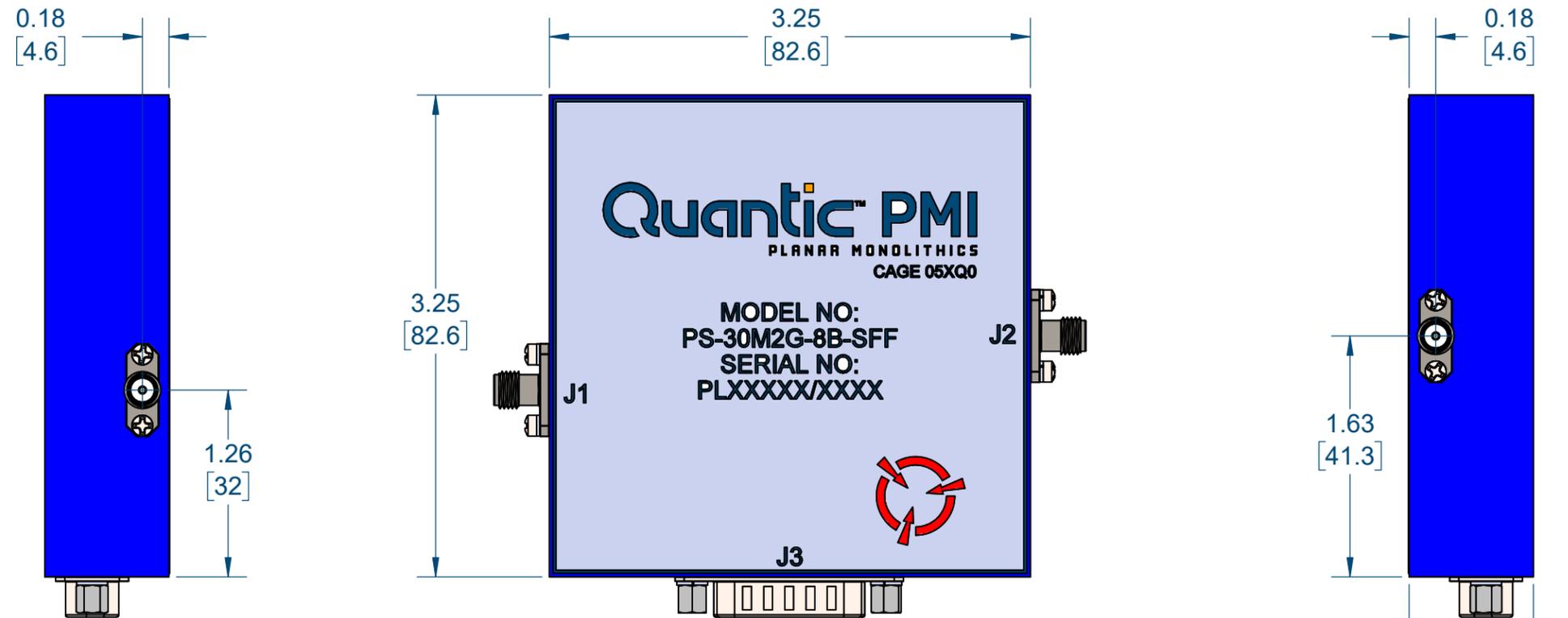
NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS DRAWN R. SIRK REDRAWN ISSUED		DATE		TITLE OUTLINE PS-30M2G-8B-SFF	
		2/22/2023			
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	27044980	C1
		SCALE 1:2		SHEET 1 OF 2	



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 ISO 9001 CERTIFIED



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Quantic PMI PLANAR MONOLITHICS			
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		PS-30M2G-8B-SFF	
SIZE	FSCM NO.	DWG NO.	REV.
B	05XQ0	27044980	C1
SCALE 1:2			SHEET 2 OF 2