

DESCRIPTION:

PMI MODEL NUMBER PS-360-16G22G-10B-SFF IS A 16.0 TO 22.0 GHz DIGITALLY CONTROLLED ANALOG PHASE SHIFTER WITH CAPABILITY FOR PHASE SHIFTING FROM 0° TO 360° WITH 10-BIT ACCURACY.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	7/21/2023	
	A2	ECN # 24-0030	2/5/2024	

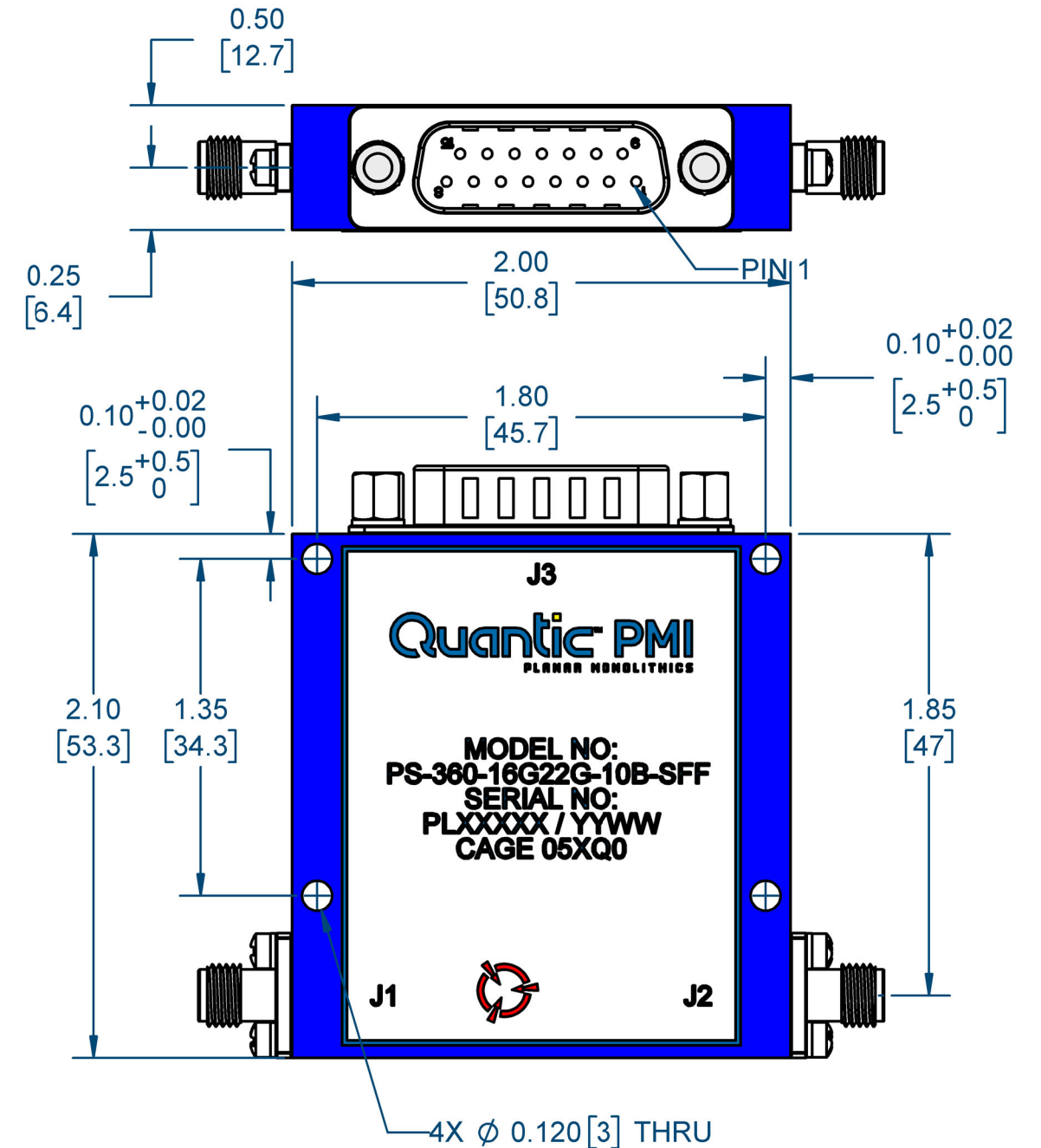
SPECIFICATIONS:

- FREQUENCY RANGE:..... 16.0 TO 22.0 GHz
 - INSERTION LOSS:..... 11.5 dB TYP
 - VSWR:..... 2 : 1 MAX
 - PHASE ACCURACY:..... ±5° TYP, ±7.5° MAX (@ 25°C & -20 dBm INPUT)
 - SWITCHING SPEED:..... 500 ns MAX
 - OPERATING POWER:..... -20 dBm CW MAX*
 - SURVIVAL POWER:..... +25 dBm CW MAX
 - CONTROL:..... 10 BIT TTL
 - POWER SUPPLY:..... +12V to +15V @ 50 mA MAX
 - SIZE:..... (L) 2.0" X (W) 2.1" X (H) 0.5"
 - FINISH:..... PAINTED BLUE
- * UNIT CALIBRATED @ -20 dBm INPUT POWER, PHASE SHIFT WILL VARY WITH POWER LEVELS ABOVE -20 dBm.

J3 PIN FUNCTIONS	
PIN NUMBER	FUNCTION
1	N/C
2	+12V TO +15V
3	N/C
4	1.4°
5	5.6°
6	45.0°
7	180.0° (MSB)
8	90.0°
9	GROUND
10	0.7°
11	22.5°
12	2.8°
13	11.3°
14	0.35° (LSB)
15	N/C

INPUT/OUTPUT INFORMATION:

- BIDIRECTIONAL UNIT
- DATA TAKEN:
J1 - INPUT
J2 - OUTPUT



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -55°C TO +85°C (OPERATING)
-65°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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± ± .XXX ± 0.01		Quantic PMI <small>PLASMA NONLINEARICS</small> 7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 862-5019 FAX: (301) 662-1731 WEB: WWW.QUANTICPMI.COM EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED	
APPROVALS	DATE	TITLE	
R.SIRK	7/21/2023	OUTLINE	
REDRAWN		PS-360-16G22G-10B-SFF	
ISSUED		SIZE	FSCM NO. DWG NO. REV.
		B	05XQ0 27046820 A2
		SCALE 1:1	SHEET 1 OF 1