

DESCRIPTION:

PMI MODEL NUMBER PS-85M4G-9B-SFF IS A 9 BIT DIGITAL PHASE SHIFTER THAT OPERATE OVER THE 85 MHz TO 4 GHz FREQUENCY RANGE. THE MODEL OFFERS 360 DEGREES OF PHASE SHIFT WITH THE LEAST SIGNIFICANT BIT OF 0.7 DEGREES.

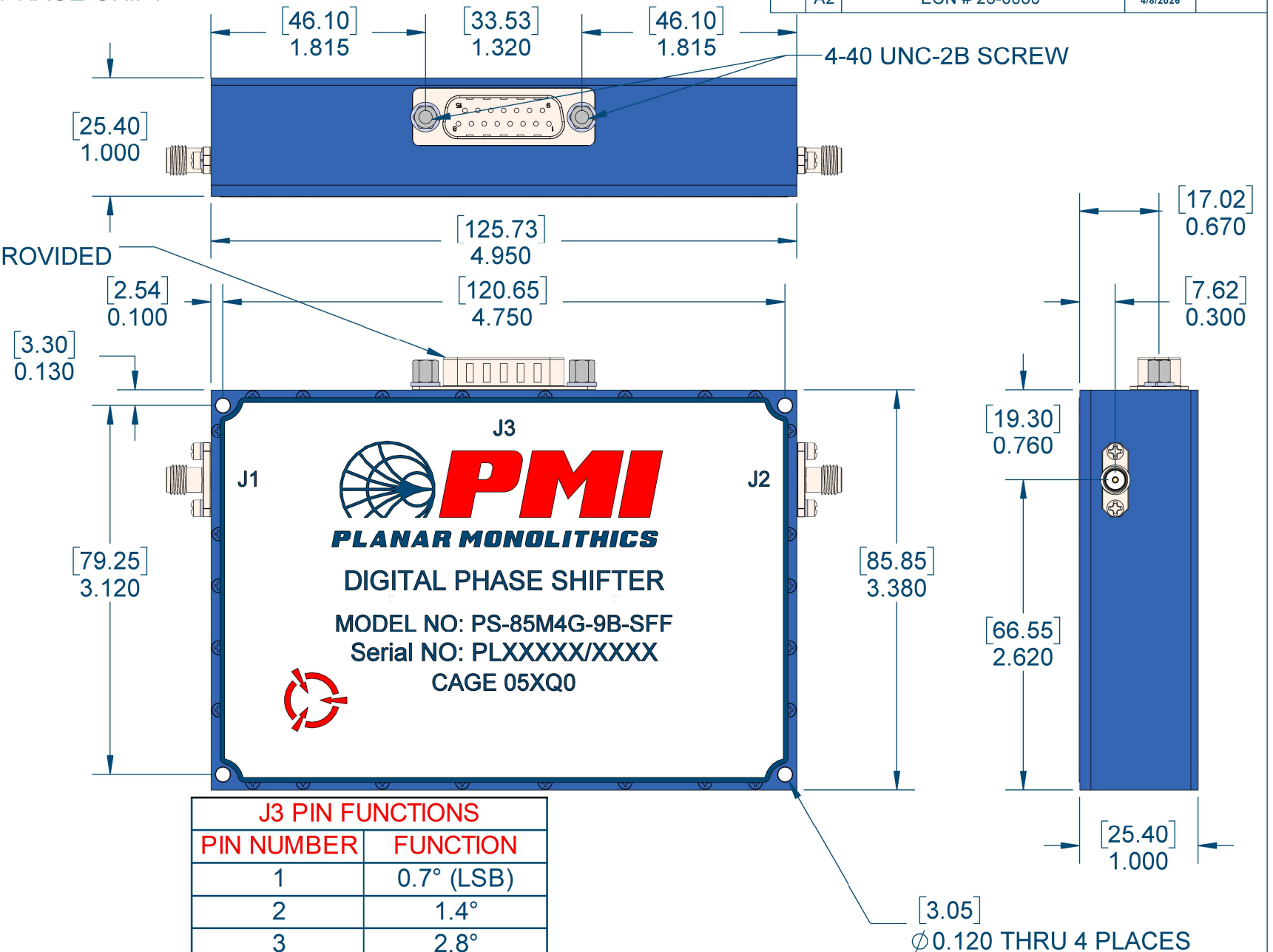
SPECIFICATIONS:

- FREQUENCY RANGE:..... 0.085 TO 4.0 GHz
- INSERTION LOSS:..... 13 dB MAX
- PHASE SHIFT:..... 360° TYP
- PHASE SHIFT ERROR:..... ±10° TYP
- AMPLITUDE ERROR:..... ±1.0 dB TYP
- SWITCHING SPEED:..... 500 ns MAX
- CONTROL:..... 9 BIT TTL
- POWER SUPPLY:
 - +V:..... +15V @ 250 mA MAX
 - V:..... -15V @ 50 mA MAX
- FINISH:..... PAINTED BLUE
- CONNECTOR (RF):..... SMA FEMALE
- CONNECTOR (CONTROL):..... 15 PIN SUBMINIATURE D (MALE)



ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	12/21/2015	
	A1	ECN # 16-0058	4/15/2016	
	A2	ECN # 26-0080	4/8/2026	

ITT CANNON DA-15P MATING CONNECTOR PROVIDED



J3 PIN FUNCTIONS	
PIN NUMBER	FUNCTION
1	0.7° (LSB)
2	1.4°
3	2.8°
4	5.6°
5	11.2°
6	22.5°
7	45°
8	90.0°
9	180° (MSB)
10	NC
11	NC
12	NC
13	+ 15 VDC
14	- 15 VDC
15	GROUND

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

APPROVALS		DATE	 7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 682-5019, FAX: (301) 682-1751 WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED	
DRAWN E. Castillo		4/9/2026		
REDRAWN				
ISSUED			TITLE OUTLINE PS-85M4G-9B-SFF	
SIZE B	FSCM NO. 05XQ0	DWG NO. 27029011	REV. A2	
SCALE 1:2			SHEET 1 OF 1	

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