

DESCRIPTION:

PMI MODEL NUMBER PSDM-25R5G27G-360 IS A 8 BIT DIGITALLY CONTROLLED PHASE SHIFTER, OPERATING OVER THE 25.5 TO 27 GHz FREQUENCY RANGE. THIS MODEL FEATURES AN LSB OF 1.4° AND 360° OF PHASE CONTROL, ALL IN A SLIM LINE PACKAGE MEASURING ONLY (L) 2.0" X (W) 2.1" X (H) 0.5".

SPECIFICATIONS:

- FREQUENCY RANGE: 25.5 TO 27 GHz
- INSERTION LOSS: 12 dB MAX *
- VSWR: 2.2:1 MAX *
- PHASE CONTROL RANGE: 360 DEGREES
- PHASE LSB STEP: 1.4 DEGREES
- PHASE FLATNESS: ±10 DEGREES MAX *
- AMPLITUDE VARIATION VS. POWER: ±3 dB MAX **
- AMPLITUDE VARIATION VS. TEMPERATURE: ±5 dB MAX (-40°C TO +85°C) *
- PHASE VARIATION VS. POWER: ±10 DEGREES TYP, ±20 DEGREES MAX **
- PHASE VARIATION VS. TEMPERATURE: ±20 DEGREES MAX (-40°C TO +85°C) *
- SWITCHING SPEED: 500ns MAX
- INPUT POWER: +10 dBm MAX
- CONTROL: 8 BIT TTL (1 = ON, 0 = OFF)
- DC SUPPLY: +12 TO +15 VDC @ 100 mA MAX
- SIZE: (L) 2.0" x (W) 2.1" x (H) 0.5"
- PWR/CTL CONNECTORS: 15 PIN D-SUB-FEMALE (MATING CONNECTOR SUPPLIED)
- FINISH: PAINTED BLUE

* @ 0 dBm INPUT POWER
** @ -10 dBm TO +5 dBm INPUT POWER

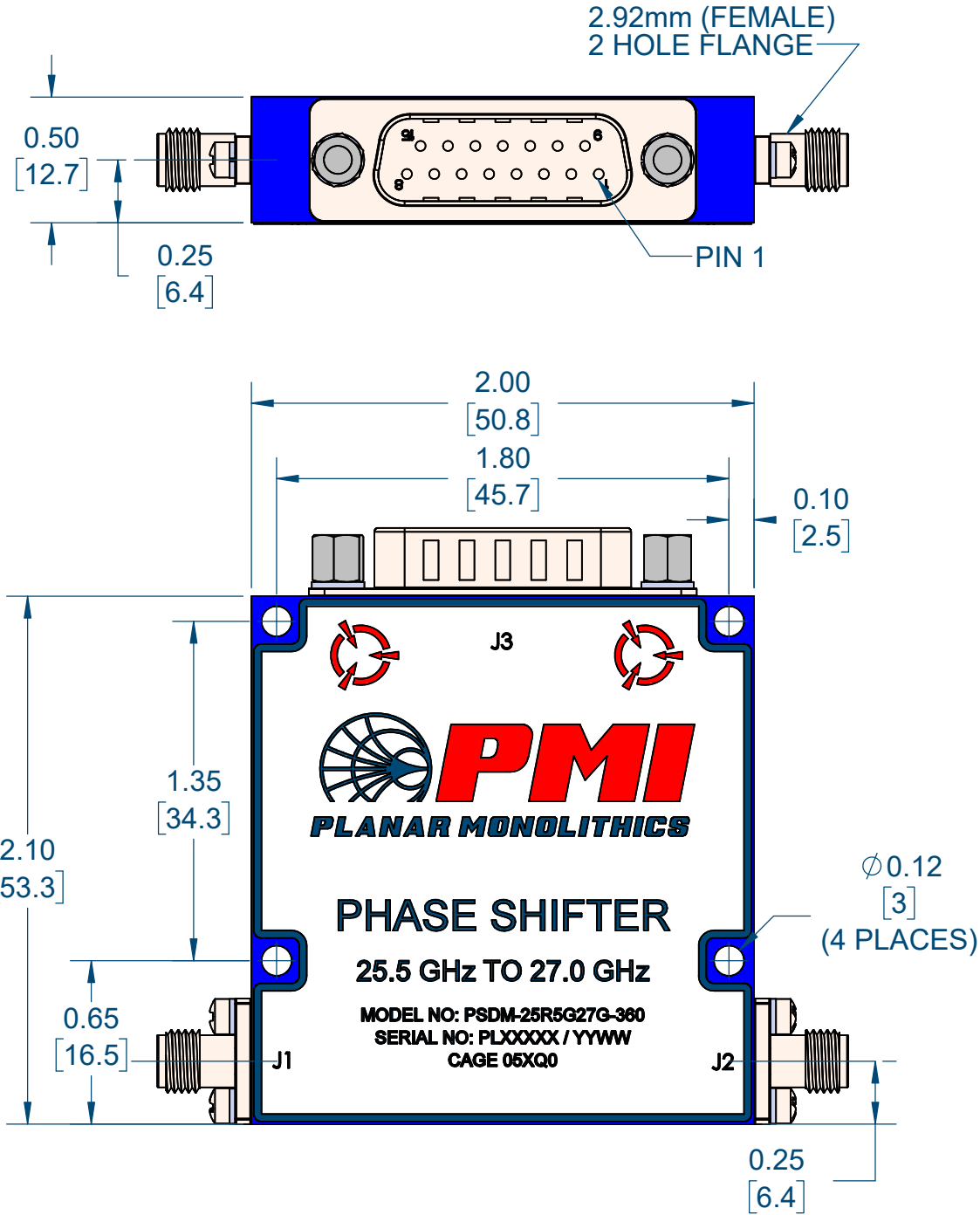
PIN NO:	J3 PIN FUNCTIONS
1	11.25°
2	5.625°
3	2.813°
4	1.406° (LSB)
5	GND
6	NOT USED
7	NOT USED
8	GND
9	NOT USED
10	NOT USED
11	+12V TO +15V
12	180° (MSB)
13	90°
14	45°
15	22.5°

ENVIRONMENTAL RATINGS:

- TEMPERATURE: -40°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

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	4/7/26	



PMI CONFIDENTIAL AND PROPRIETARY

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			APPROVALS		DATE	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01			DRAWN D. HOSCHAR		4/7/26	
			REDRAWN			
			ISSUED			
			SIZE	FSCM NO.	DWG NO.	REV.
			B	05XQ0	27054620	A1
			SCALE 1.5:1			SHEET 1 OF 1