

**DESCRIPTION**

PMI MODEL NUMBER: PSD-25R5G27G-360-OPT25R2527R25 IS A 8 BIT DIGITALLY CONTROLLED PHASE SHIFTER, OPERATING OVER THE 25.25 TO 27.25 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) 1.8" (H) 0.4".

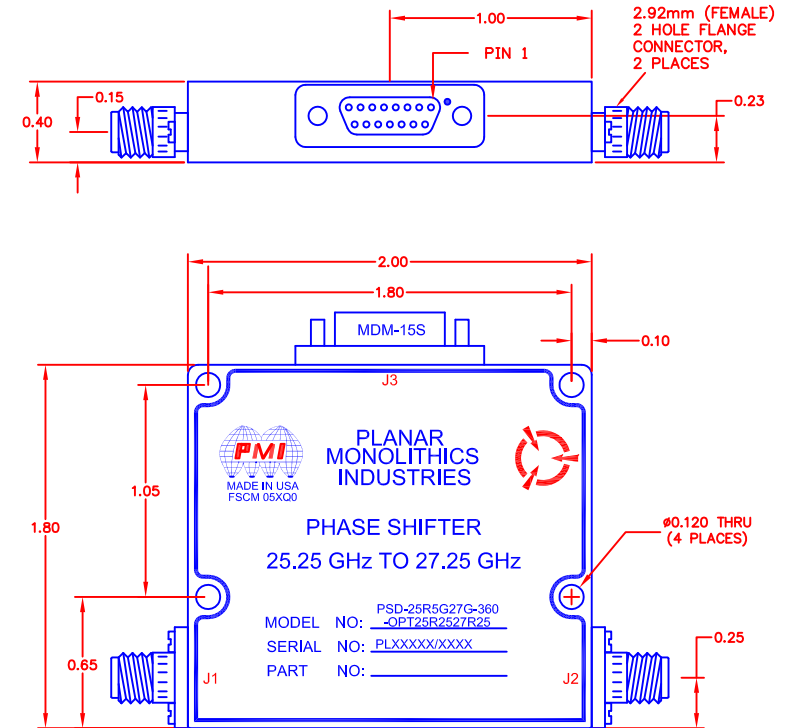
**SPECIFICATIONS**

- FREQUENCY RANGE: 25.25 TO 27.25 GHz
- INSERTION LOSS: 9.0 dB MAX
- VSWR: 2.2:1 MAX
- PHASE CONTROL RANGE: 360 DEGREES
- PHASE LSB STEP: 1.4 DEGREES
- PHASE FLATNESS: ±10 DEGREES TYP
- SWITCHING SPEED: 200ns MAX
- INPUT POWER: +10dBm MAX (OPERATING)  
+30dBm MAX (SURVIVAL)
- DC SUPPLY: +12 to +15VDC @ 100mA
- SIZE: (L) 2.0" X (W) 1.8" (H) 0.4"
- PWR/CTL CONNECTORS: 15 PIN MICRO-D-FEMALE (MATING CONNECTOR SUPPLIED)
- FINISH: BLUE PAINT

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°

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	5/6/19	

**MECHANICAL OUTLINE**



**PMI CONFIDENTIAL AND PROPRIETARY**

**ENVIRONMENTAL RATINGS:**

- TEMPERATURE: -40°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 107 COND. A

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX ±0.020  
X.XXX ±0.010

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APPROVALS		DATE	TITLE			
DRAWN <i>PJK</i>		9/9/15	PRODUCT FEATURE			
REDRAWN <i>EW</i>		5/6/19	PSD-25R5G27G-360-OPT25R2527R25			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	PRELIMINARY	-
			SCALE	N: S		SHEET 1 OF 1