

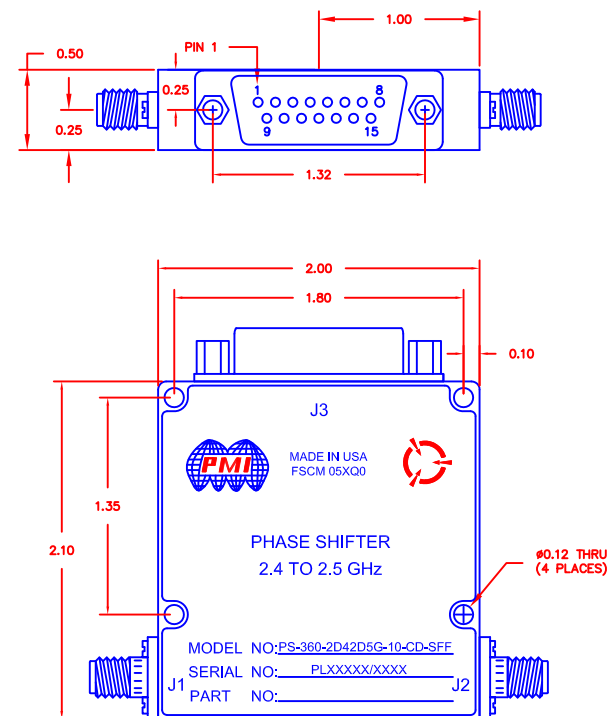
## DESCRIPTION

PMI MODEL NUMBER PS-360-2D42D5G-10-CD-SFF IS A 2.4 TO 2.5 GHz 10 BIT DIGITALLY CONTROLLED PHASE SHIFTER WITH CAPABILITY FOR PHASE SHIFTING FROM 0° TO 360°, WITH RESOLUTION AS FINE AS 0.36°.

## SPECIFICATIONS

- FREQUENCY RANGE: 2.4 TO 2.5 GHz
- RF INPUT POWER: 20dBm
- CONTROL: 10 BIT TTL
- PHASE CONTROL RANGE: 360 DEGREES TYP.
- LSB: 0.36°
- SWITCHING SPEED: 1 usec, 500 nsec TYP.
- INSERTION LOSS: 6dB TYP.
- CONNECTORS (RF): SMA FEMALE
- CONNECTOR (CONTROL): 15 PIN SUBMINIATURE D (MALE)
- RF IMPEDANCE: 50 OHMS
- VSWR: 1.75:1
- LOGIC BITS: 10 (SEE PIN FUNCTION TABLE)
- TTL: "0" = -0.3 to +0.8V  
"1" = +2 to +5V
- POWER SUPPLY
  - +V: +12V to +15V @ 100 mA
  - V: -12V to -15V @ 90 mA
- SIZE: 2.00" X 2.10" X 0.50"
- FINISH: PAINTED GRAY

| PIN NO: | J3 PIN FUNCTIONS |
|---------|------------------|
| 1       | GND              |
| 2       | 0.36             |
| 3       | 0.7°             |
| 4       | GND              |
| 5       | 1.4°             |
| 6       | 2.8°             |
| 7       | 5.6°             |
| 8       | 11.2°            |
| 9       | 22.5°            |
| 10      | 45°              |
| 11      | 90°              |
| 12      | 180°             |
| 13      | -12V             |
| 14      | +12V             |
| 15      | NOT USED (LATCH) |



PMI CONFIDENTIAL AND PROPRIETARY

## ENVIRONMENTAL RATINGS

- TEMPERATURE: -40°C TO +70°C (OPERATING)  
-40°C TO +85°C (STORAGE)
- 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 107D COND. A

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

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

| REVISIONS |      |                                    |          |
|-----------|------|------------------------------------|----------|
| ZONE      | REV. | DESCRIPTION                        | DATE     |
|           | A1   | ORIGINAL RELEASE                   | 11/4/11  |
|           | B1   | LOWER STORAGE TEMP -40°C WAS -20°C | 2/9/12   |
|           | B2   | ECN # 13-0073                      | 06/25/13 |

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ISO 9001:2008 CERTIFIED



| APPROVALS |  | DATE |  | PRODUCT FEATURE              |          |            |        |
|-----------|--|------|--|------------------------------|----------|------------|--------|
| DRAWN     |  | NJ A |  | PS-360-2D42D5G-10-CD-SFF     |          |            |        |
| MODIFIED  |  |      |  | 2.4 TO 2.5 GHz PHASE SHIFTER |          |            |        |
| ISSUED    |  |      |  | SIZE                         | FSCM NO. | DWG NO.    | REV.   |
|           |  |      |  | A                            | 05XQ0    | 27014881-B | B2     |
|           |  |      |  | SCALE                        | N:S      | SHEET      | 1 OF 1 |