

DESCRIPTION

PMI MODEL NUMBER: PSDM-2G18G-360-10B IS A 10 BIT DIGITALLY CONTROLLED PHASE SHIFTER, OPERATING OVER THE 2 TO 18 GHz FREQUENCY RANGE. THIS MODEL FEATURES AN LSB OF 0.35° 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: 2 TO 18 GHz
- INSERTION LOSS: 14 dB MAX
@ 0dBm INPUT POWER
- VSWR: 2.2:1 MAX
@ 0dBm INPUT POWER
- PHASE CONTROL RANGE: 360 DEGREES
- PHASE LSB STEP: 0.35 DEGREES
- PHASE FLATNESS: ±25 DEGREES TYP @ 0dBm INPUT POWER
- AMPLITUDE VARIATION VS. POWER: ±4 dB TYP (-10 dBm TO +5dBm INPUT POWER)
- AMPLITUDE VARIATION VS. TEMPERATURE ±6 dB TYP (-40°C TO +85°C) @ 0dBm INPUT POWER
- PHASE VARIATION VS. POWER: ±15 DEGREES TYP (-10 dBm TO +5dBm INPUT POWER)
- PHASE VARIATION VS. TEMPERATURE: ±25 DEGREES TYP (-40°C TO +85°C) @ 0dBm INPUT POWER
- SWITCHING SPEED: 200ns MAX
- INPUT POWER: +10dBm MAX
- 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

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

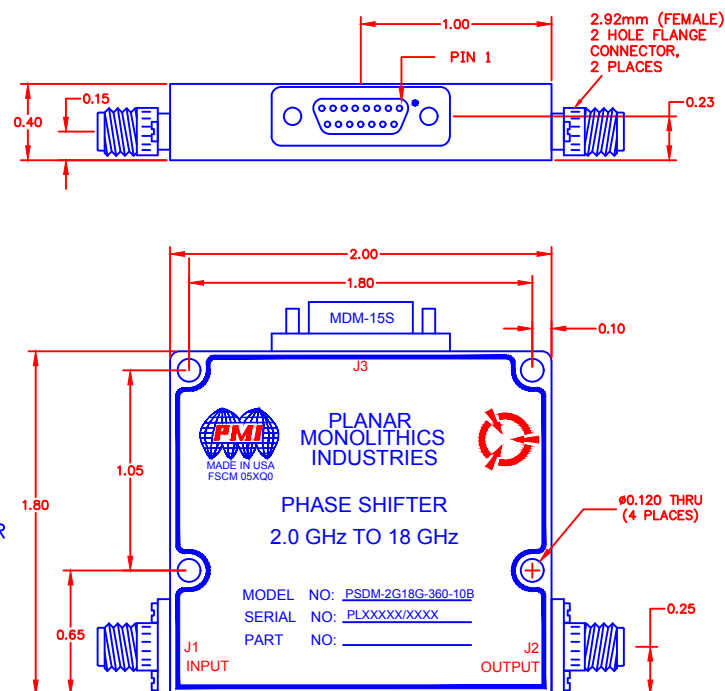
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PIN NO:	J3 PIN FUNCTIONS
1	11.25°
2	5.625°
3	2.813°
4	1.406°
5	GND
6	0.703°
7	0.351° (LSB)
8	GND
9	Not Used
10	Not Used
11	+12V to +15V
12	180° (MSB)
13	90°
14	45°
15	22.5°

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	—	PRELIMINARY RELEASE	3/10/16	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE		TITLE	
DRAWN		3/10/16		PRODUCT FEATURE	
CHECKED				PSDM-2G18G-360-10B	
ISSUED					
SIZE	FSCM NO.	DWG NO.	REV.		
A	05XQ0	270XXXXX	—		
SCALE N: S		SHEET		1 OF 1	