

## DESCRIPTION

PMI MODEL NUMBER PS-360-2R2G2R3G-6-SFF-1 IS A 6 BIT DIGITALLY CONTROLLED PHASE SHIFTER WITH CAPABILITY FOR PHASE SHIFTING FROM 0° TO 360°, WITH RESOLUTION AS FINE AS 5.6°.

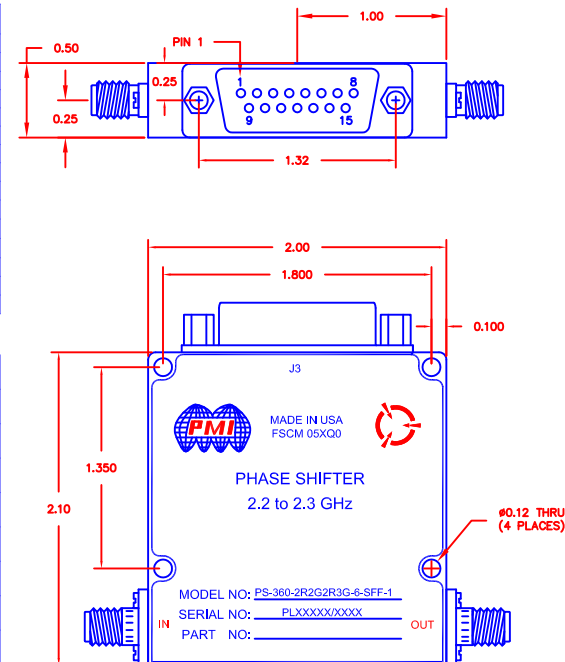
## SPECIFICATIONS

- FREQUENCY: ..... 2.2 GHz to 2.3 GHz
- GAIN: ..... 10dB, ±0.5dB TYP
- VSWR: ..... 1.8:1 MAX
- NOISE FIGURE ..... 4 dB MAX
- GAIN VS PHASE: ..... ±0.5dB TYP
- PHASE ACCURACY ..... ±8° TYP
- SWITCHING SPEED ..... 300 ns MAX
- CONTROL ..... 6 BIT TTL
- RF INPUT POWER: ..... 14 dBm MAX
- OUTPUT P1dB ..... 5dBm
- POWER SUPPLY  
+V: ..... +15VDC @ 200 mA
- CONNECTORS (RF) ..... SMA Female
- CONNECTOR (CONTROL & VOLTAGE) ..... 15 PIN Subminiature D (male)
- SIZE: ..... 2.00" X 2.10" X 0.50"
- FINISH ..... Painted Blue

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY RELEASE	12/19/14	

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

TRUTH TABLE						
PHASE	180°	90°	45°	22.5°	11.2°	5.6°
0°	0	0	0	0	0	0
5.6°	0	0	0	0	0	1
11.2°	0	0	0	0	1	0
22.5°	0	0	0	1	0	0
45°	0	0	1	0	0	0
90°	0	1	0	0	0	0
180°	1	0	0	0	0	0
354.4°	1	1	1	1	1	1



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

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			REV.
DRAWN PDW		12/19/14	PRODUCT FEATURE			-
MODIFIED			PS-360-2R2G2R3G-6-SFF-1			
ISSUED			2.2 to 2.3 GHz PHASE SHIFTER			
SIZE	FSCM NO.	DWG NO.	PRELIMINARY			
A	05XQ0					
SCALE N:S		SHEET		1 OF 1		