

DESCRIPTION

PMI MODEL NUMBER PS-360-7R9G8R6G-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: 7.9 GHz to 8.6 GHz
- GAIN: 10dB, ± 0.5 dB TYP
- VSWR: 1.8:1 MAX
- NOISE FIGURE: 4 dB MAX
- GAIN VS PHASE: ± 0.5 dB TYP
- PHASE ACCURACY: $\pm 8^\circ$ 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

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

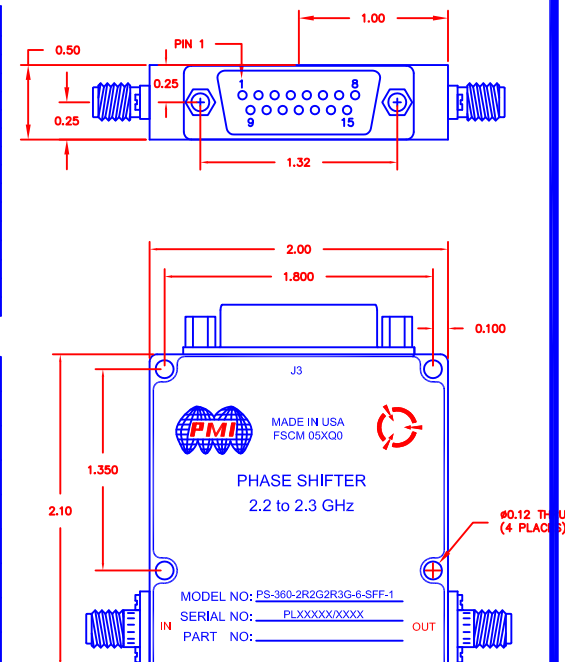
ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ± 0.020
X.XXX ± 0.010

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

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	—	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

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APPROVALS		DATE		TITLE		PRODUCT FEATURE	
DRAWN		PDW		12/19/14		PS-360-7R9G8R6G-6-SFF-1	
MODIFIED						7.9 to 8.6 GHz PHASE SHIFTER	
ISSUED						PRELIMINARY	
SIZE		FSCM NO.		DWG NO.		REV.	
A		05XQ0				—	
SCALE		N:S				SHEET 1 OF 1	