

DESCRIPTION

PMI MODEL NUMBER: PSA-12G14G-10D IS A 10BIT DIGITALLY CONTROLLED PHASE SHIFTER, OPERATING OVER THE 12 TO 14GHz FREQUENCY RANGE. THIS MODEL FEATURES AN ULTRA-HIGH SPEED TTL COMPATIBLE DRIVE CIRCUIT WITH A 20 dBm OPERATING POWER LEVEL, AND LOW HARMONIC DISTORTION.

SPECIFICATIONS

- FREQUENCY RANGE: 12 TO 14 GHz
- INSERTION LOSS: 7.0dB MAX
- VSWR: 1.75:1 MAX
- PHASE CONTROL RANGE: 360 DEGREES
- PHASE LSB STEP: 0.35 DEGREES
- HARMONIC DISTORTION: -30 dBc
- SWITCHING SPEED: 100nSEC MAX
- INPUT POWER: +20dBm MAX (OPERATING)
+30dBm MAX (SURVIVAL)
- DC SUPPLY: +12 to +15VDC @ 200mA
- 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°
5	GND
6	0.703°
7	0.352° (LSB)
8	GND
9	Not Used
10	Not Used
11	+12V to +15V
12	180° (MSB)
13	90°
14	45°
15	22.5°

ENVIRONMENTAL RATINGS:

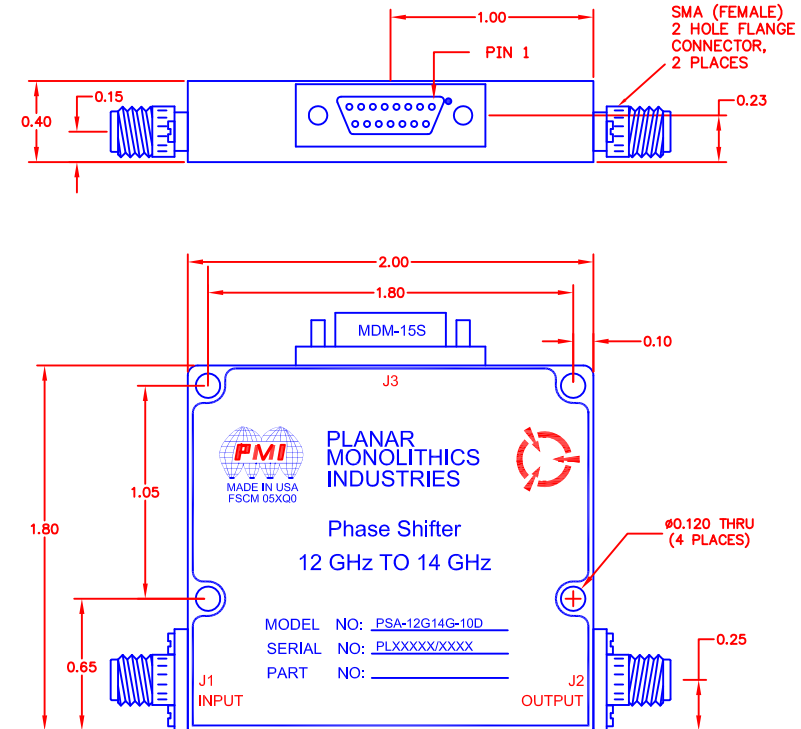
TEMPERATURE: -40°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
SHOCK: MIL-STD-202F, METHOD 213B COND. B
VIBRATION: MIL-STD-202F, METHOD 204D COND. B
ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107 COND. A

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	—	PRELIMINARY RELEASE	06/2/14

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE		TITLE			
DRAWN		6/2/14		PRODUCT FEATURE			
CHECKED				PSA-12G14G-10D			
ISSUED				SIZE	FSCM NO.	DWG NO.	REV.
				A	05XQ0	270XXXXX	—
				SCALE	N: S	SHEET	1 OF 1