DESCRIPTION

PMI MODEL NUMBER PS-255-2G18G-8B-SFF-OPT25 IS A 2.0 TO 5.0 GHz 8 BIT DIGITALLY CONTROLLED PHASE SHIFTER WITH CAPABILITY FOR PHASE SHIFTING FROM 0° TO 255°, WITH RESOLUTION AS FINE AS 1.0°.

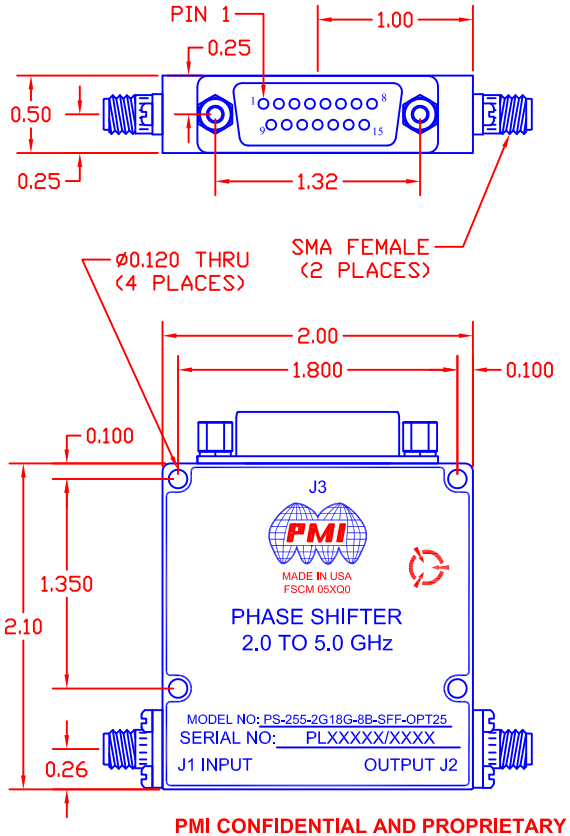
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	9/1/16	

SPECIFICATIONS

- FREQUENCY RANGE: 2.0 TO 5.0 GHz
- RF INPUT POWER: 10 dBm
- PHASE CONTROL RANGE: 255° TYP
- LSB: 1.0°
- SWITCHING SPEED: 200 ns TYP, 500 ns MAX
- INSERTION LOSS: 3 dB TYP
- AMPLITUDE ERROR: ±3.7 dB TYP
- PHASE FLATNESS: ±37.0° TYP
- CONNECTORS (RF): SMA FEMALE
- CONNECTORS (CONTROL): 15 PIN SUBMINIATURE D (MALE) MATING CONNECTOR SUPPLIED
- RF IMPEDANCE: 50 Ω
- VSWR: 2.0:1 TYP
- LOGIC BITS: 8 (SEE PIN FUNCTION TABLE)
- LOGIC: TTL COMPATIBLE
- POWER SUPPLY: +12 V TO +15 V @ 200 mA TYP
- SIZE: 2.00" X 2.10" X 0.50"
- FINISH: BLUE EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.

PIN NO:	J3 PIN FUNCTIONS
1	GND
2	N/C
3	N/C
4	GND
5	1.0°
6	2.0°
7	4.0°
8	8.0°
9	16.0°
10	32.0°
11	64°
12	128°
13	N/C
14	+ V
15	N/C

MECHANICAL OUTLINE



FEATURES

- SINGLE POSITIVE VOLTAGE SUPPLY OPERATION
- LOW DC CURRENT CONSUMPTION
- SLIM-LINE DESIGN

ENVIRONMENTAL RATINGS

- TEMPERATURE: -40 °C TO +85 °C (OPERATING)
- 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

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED

APPROVALS	DATE
DRAWN EMF	9/1/16
CHECKED	
ISSUED	

TITLE: PRODUCT FEATURE
PS-255-2G18G-8B-SFF-OPT25
2.0 TO 5.0 GHz PHASE SHIFTER

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	PRELIMINARY	-

SCALE N:S SHEET 1 OF 1