

DESCRIPTION

PMI MODEL: PS-3R5G6R5G-10B-SFF IS A 10-BIT DIGITAL PHASE SHIFTER THAT OPERATES OVER THE 3.5 TO 6.5 GHz FREQUENCY RANGE. THIS MODEL OFFERS 360 DEGREES PHASE SHIFT WITH A LEAST SIGNIFICANT BIT OF 0.35 DEGREES.

SPECIFICATIONS MEASURED WITH -10dBm INPUT POWER

- FREQUENCY RANGE: ----- 3.5 TO 6.5 GHz
- CONTROL: ----- 10 BIT TTL
- INSERTION LOSS: ----- 10dB Typ., 11dB Max.
- VSWR: ----- 1.6:1 MAXIMUM
- PHASE ACCURACY ----- ±1.50 Max.
- PHASE FLATNESS: ----- ±10° MAXIMUM
- PHASE SHIFT: ----- 360°
- HARMONIC: ----- -30 dBc MINIMUM
- SPURIOUS SUPPRESSION: ----- -40 dBc MINIMUM
- DC SUPPLY: ----- +15 V @ 200 mA MAXIMUM
-15 V @ 50 mA MAXIMUM
- CONNECTORS: ----- RF: SMA FEMALE
CONTROL: 15 PIN SUBMINIATURE D (MALE)
MATING CONNECTOR SUPPLIED WITH UNIT.
- SIZE: ----- 3.25 x 3.25" x 0.84"
[82.55 mm x 82.55 mm x 21.34 mm]
EXCLUDING MOUNTING PLATE
- FINISH: ----- PAINTED BLUE

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- 0 °C TO +70 °C (OPERATING)
- HUMIDITY: ----- MIL-STD-202, METHOD 103B COND. B
- SHOCK: ----- MIL-STD-202, METHOD 213B COND. B
- VIBRATION: ----- MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: ----- MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: ----- MIL-STD-202, METHOD 107D COND. A

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

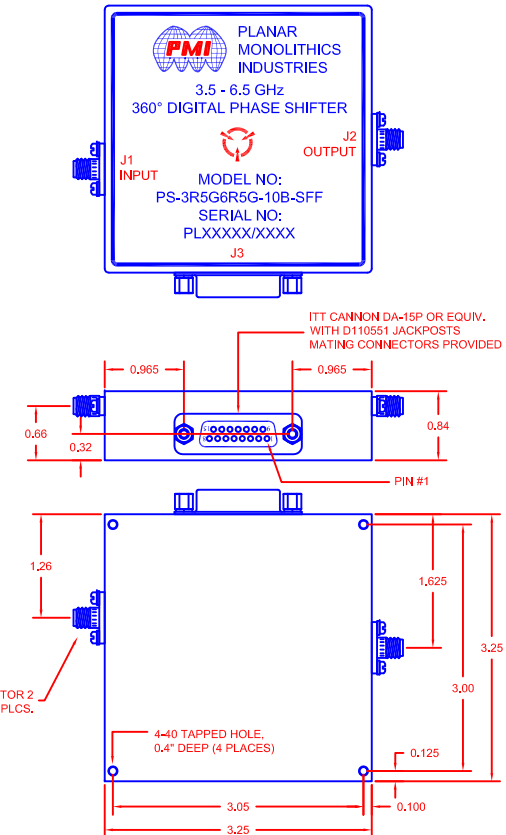
PMI CONFIDENTIAL AND PROPRIETARY

ALL DIMENSIONS
ARE IN mm [INCH]
TOLERANCES:
X.XX ± 0.508 [0.020]
X.XXX ± 0.254 [0.010]

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	04/26/18	
	B1	ECN # 18-0188	8/31/18	

MECHANICAL OUTLINE

PIN	FUNCTION
1	-VDC
2	+VDC
3	N/C
4	1,4°
5	5,6°
6	45°
7	180,0° (MSB)
8	90°
9	GND
10	N/C
11	22,5°
12	2,8°
13	11,3°
14	0,7°
15	0,35° (LSB)



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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>M. Berry</i>		04/26/18	PRODUCT FEATURE PS-3R5G6R5G-10B-SFF 3.5 to 6.5 GHz, 0° - 360° Digital Phase Shifter			
CHECKED			SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0	27034800	B1
			SCALE	N:S	SHEET	1 OF 1