

DESCRIPTION

PMI MODEL NUMBER PS-4G6G-10B-SFF IS A 10-BIT DIGITAL PHASE SHIFTER THAT OPERATES OVER THE 4.0 TO 6.0 GHz FREQUENCY RANGE. THIS MODEL OFFERS 360 DEGREES PHASE SHIFT WITH A LSB OF 0.35 DEGREES.

SPECIFICATIONS

- FREQUENCY RANGE: 4.0 TO 6.0 GHz
- CONTROL: 10 BIT TTL
- VSWR: 1.6:1 MAX
- PHASE FLATNESS: $\pm 10^\circ$ MAX
- PHASE SHIFT: 360°
- HARMONIC: -50 dBc MIN
- SPURIOUS SUPPRESSION: -60 dBc MIN
- SIZE: (L) 3.25" x (W) 3.25" x (H) 0.84"
- CONNECTORS:
 - RF: SMA FEMALE
 - CONTROL: 15 PIN SUBMINIATURE D (MALE)
- 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.

ELECTRICAL CONNECTOR PIN ASSIGNMENTS	
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)

MATING CONNECTOR SUPPLIED

ENVIRONMENTAL RATINGS

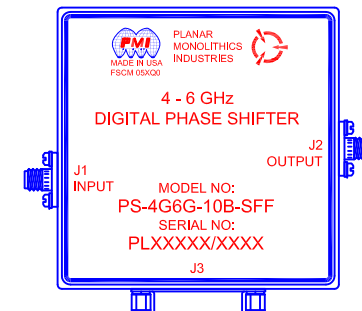
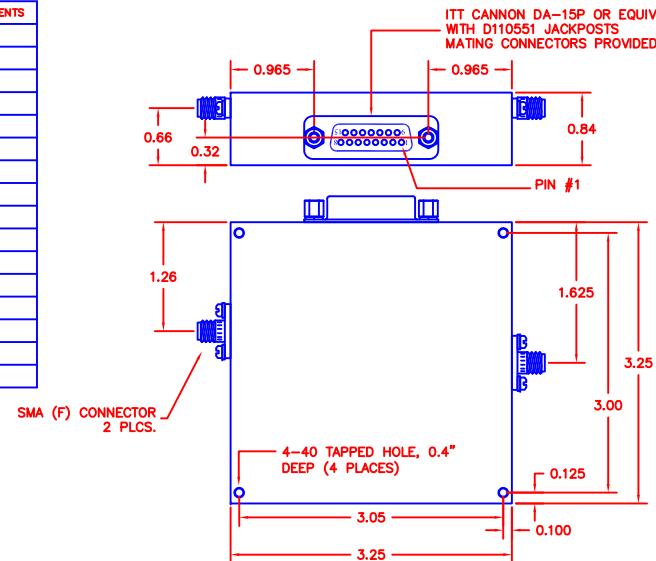
- TEMPERATURE: -55°C TO + 85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. 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

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	—	PRELIMINARY	2/22/18

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.
7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-5019 FAX: 301-662-1731
WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			REV.
DRAWN	<i>fk</i>	06/05/14	PRODUCT FEATURE			—
REDRAWN	<i>EW</i>	2/22/18	PS-4G6G-10B-SFF			—
ISSUED			4.0-6.0GHz, 0°-360° PHASE SHIFTER			—
SCALE N:S			SIZE A	FSCM NO. 05XQ0	OWG NO. PRELIMINARY	
			SHEET		1 OF 1	