

DESCRIPTION

PMI MODEL NUMBER PS-4G10G-8B-SFF IS A 8-BIT DIGITAL PHASE SHIFTER THAT OPERATES OVER THE 4.0 GHz TO 10.0 GHz FREQUENCY RANGE. THIS MODEL OFFERS 360 DEGREES PHASE SHIFT WITH A LSB OF 1.4 DEGREES.

SPECIFICATIONS

- FREQUENCY RANGE: 4.0 TO 10.0 GHz
- CONTROL: 8 BIT TTL
- INSERTION LOSS: 10.5dB TYP
- PHASE SHIFT: 360°
- PHASE ACCURACY: ±0.5° TYP.
- SWITCHING SPEED: 500ns MAX.
- POWER SUPPLY:
 - +V: +15V
 - V: -15V
- 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° (LSB)
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	N/C
15	N/C

ENVIRONMENTAL RATINGS

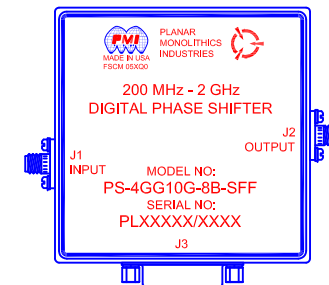
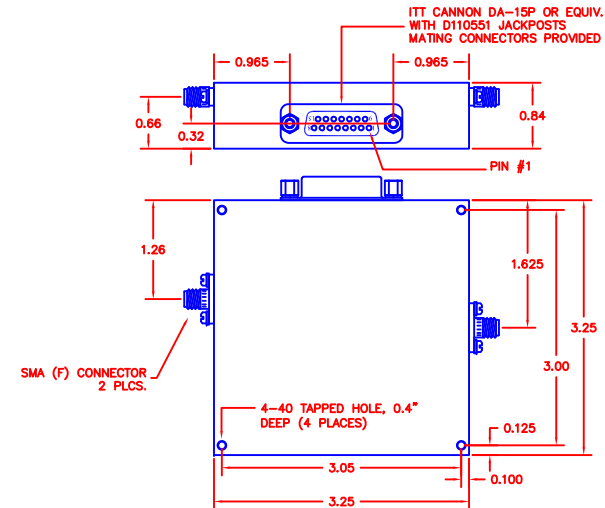
- TEMPERATURE: -55°C TO + 85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. 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
	1	ORIGINAL RELEASE	02/10/16

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>JRP</i>		02/10/16		PRODUCT FEATURE PS-4G10G-8B-SFF 4GHz-10GHz, 0°-360° PHASE SHIFTER			1	
CHECKED				SIZE	FSCM NO.	OWG NO.		
ISSUED				A	05XQ0	27022642		
				SCALE	N:S		SHEET	1 OF 1