

DESCRIPTION

PMI MODEL: PS-100M1200M-9B-SFF IS A 9-BIT DIGITAL PHASE SHIFTER IS A 100 TO 1200 MHz DIGITALLY CONTROLLED ANALOG PHASE SHIFTER WITH CAPABILITY FOR PHASE SHIFTING FROM 0° TO 360°. THE UNIT CONSISTS OF AN ANALOG PHASE SHIFTER AND A DIGITAL-TO-ANALOG CONVERTER. NINE LOGIC INPUT LINES ALLOW 512 DISCRETE VALUES OF PHASE.

SPECIFICATIONS

- FREQUENCY RANGE: 100 TO 1200 MHz
- CONTROL: 9 BIT TTL
- INSERTION LOSS: 13 dB MAXIMUM
- PHASE SHIFT: 360° TYPICAL
- AMPLITUDE ERROR: ±1.0 dB TYPICAL
- PHASE SHIFT ERROR: ±10° TYPICAL
- SWITCHING SPEED: 500 ns MAXIMUM
- POWER SUPPLY: +15 V @ 250 mA TYPICAL
-15 V @ 20 mA TYPICAL
- SIZE: 4.95" X 3.38" X 1.00"
- WEIGHT: 14 oz
- RF CONNECTORS: SMA FEMALE
- CONTROL CONNECTOR: 15 PIN D-SUB 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.

ENVIRONMENTAL RATINGS

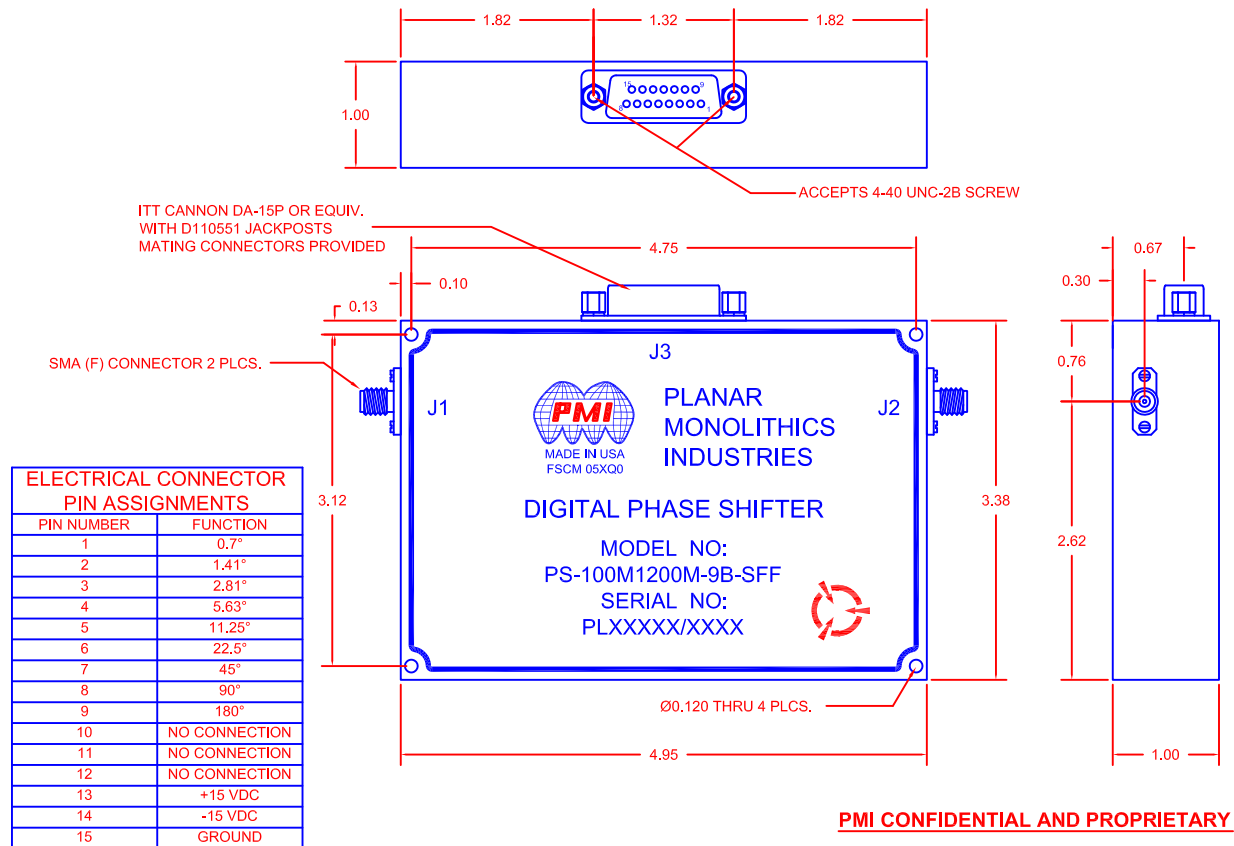
- TEMPERATURE: -40 °C TO +85 °C (OPERATING)
-65 °C TO +125 °C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D 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	APPROVED
	1	ORIGINAL RELEASE	04/01/15	

MECHANICAL OUTLINE



ELECTRICAL CONNECTOR PIN ASSIGNMENTS	
PIN NUMBER	FUNCTION
1	0.7°
2	1.41°
3	2.81°
4	5.63°
5	11.25°
6	22.5°
7	45°
8	90°
9	180°
10	NO CONNECTION
11	NO CONNECTION
12	NO CONNECTION
13	+15 VDC
14	-15 VDC
15	GROUND

PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>M. Berry</i>		04/01/15	PRODUCT FEATURE PS-100M1200M-9B-SFF 100 MHz TO 1200 MHz, 360° PHASE SHIFTER			
CHECKED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	27024901	1
ISSUED			SCALE	N:S		SHEET 1 OF 1