

DESCRIPTION

PMI MODEL PDPS-510-6-LC, IS A SIX BIT PHASE SHIFTER WITH A SPEED OF 500 nSEC MAXIMUM. DESIGNED TO OPERATE AT A FREQUENCY OF 5 TO 10 GHz, WITH A VSWR OF 2.0:1. THIS UNIT HAS AN INSERTION LOSS OF 14 dB MAXIMUM AND A TYPICAL PHASE ACCURACY OF $\pm 6^\circ$.

SPECIFICATIONS

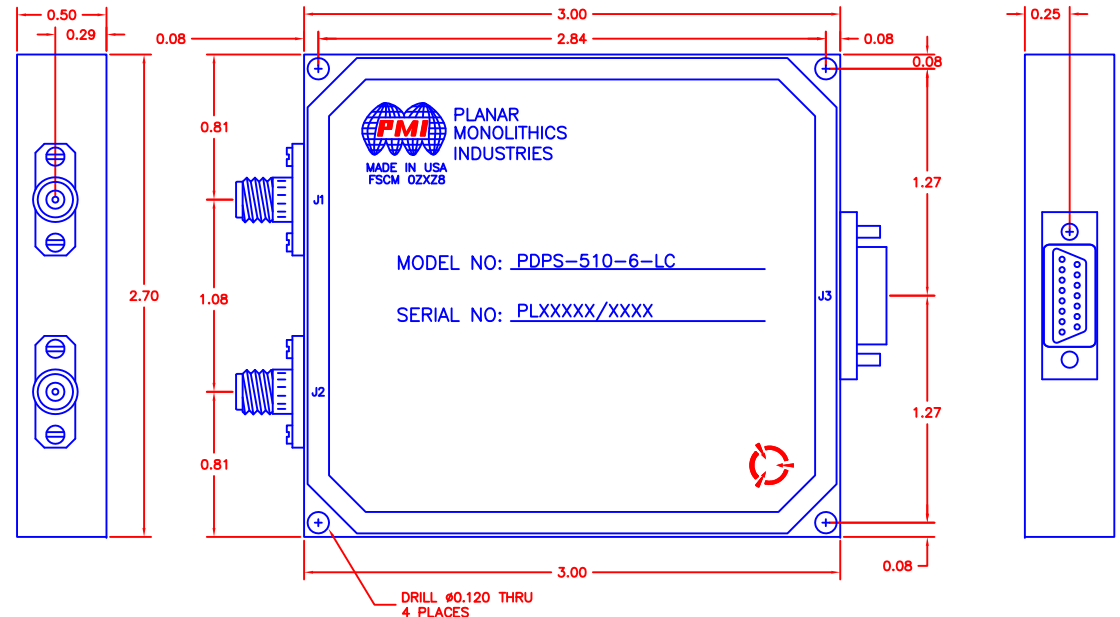
- FREQUENCY RANGE: 5 TO 10 GHz
- INSERTION LOSS: 14 dB MAXIMUM
- VSWR: 2.0:1
- PHASE STATES: 5.6° , 11.2° , 22.4° , 45° , 90° , 180°
- PHASE ACCURACY: $\pm 6^\circ$ TYPICAL
- SWITCHING SPEED: 500nSEC MAXIMUM
- POWER SUPPLY: +5V @ 50 mA TYPICAL
 -15V @ 50 mA TYPICAL
- CONNECTORS:
 RF: SMA FEMALE INPUT & OUTPUT
 CONTROL: TTL THRU "D" MULTIPIN CONNECTOR
- SIZE: 3.00" X 2.70" X 0.50"

15 Pin Sub-D Connector Pin Out	
Pin 1	TTL CONTROL 180° MSB
Pin 2	TTL CONTROL 90°
Pin 3	TTL CONTROL 45°
Pin 4	TTL CONTROL 22.5°
Pin 5	TTL CONTROL 11.25°
Pin 6	TTL CONTROL 5.6° LSB
Pin 7	(+5VDC)
Pin 8	(-15VDC)
Pin 9	P.S. RETURN (CASE GROUND)
Pin 10-15	TTL RETURN (CASE GROUND)

ENVIRONMENTAL RATINGS:

- TEMPERATURE: -40°C TO $+85^\circ\text{C}$ (OPERATING)
 -65°C TO $+100^\circ\text{C}$ (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



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APPROVALS		DATE	TITLE		PRODUCT FEATURE	
DRAWN <i>K. MASON</i>		9/12/15	PDPS-510-6-LC		5-10 GHz, 6-BIT PHASE SHIFTER	
CHECKED			SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0	PRELIMINARY	-
SCALE N:S			SHEET 1 OF 1			

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