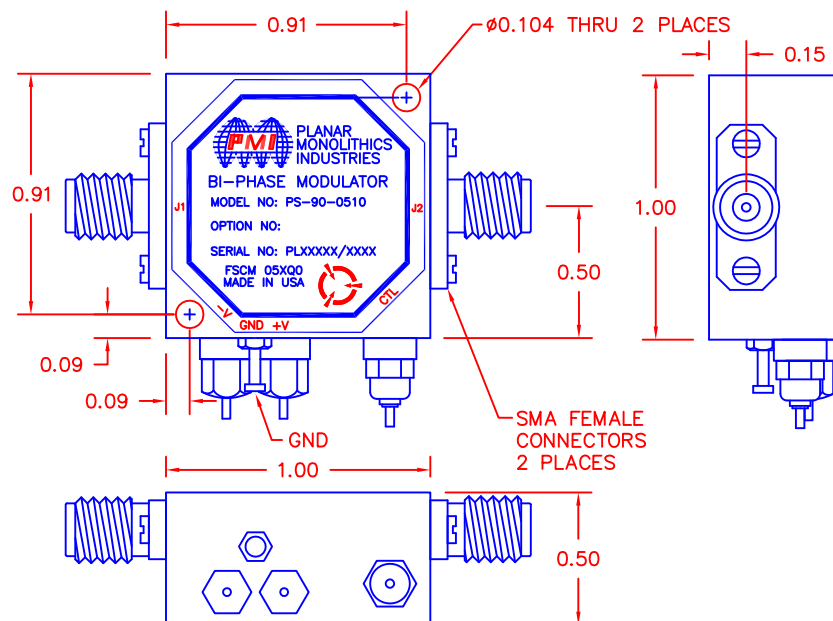


DESCRIPTION

THE PMI MODEL PS-90-0510 IS A 0 TO 180 DEGREE, MINIATURE, SINGLE BALANCED, BI-PHASE MODULATOR/ SHIFTER WITH TTL CONTROL LOGIC.

SPECIFICATIONS

- FREQUENCY RANGE: 0.5 TO 1.0 GHz
- INSERTION LOSS: 2.5 dB TYPICAL, 3.0dB MAXIMUM
- RETURN LOSS (VSWR): 2.0:1
- SWITCHING SPEED: RISE: 10 ns TYPICAL, 15ns MAXIMUM
FALL: 10 ns TYPICAL, 15ns MAXIMUM
DELAY ON: 50 ns TYPICAL, 75 ns MAXIMUM
DELAY OFF: 55 ns TYPICAL, 75 ns MAXIMUM
- PHASE STATES: 0 DEGREES/ 180 DEGREES
- RF INPUT POWER: +20 dBm OPERATING, 0.5 WATT CW,
1 μ s PULSE WIDTH SURVIVAL
- CARRIER SUPPRESSION: 15 dB, 20 dB TYPICAL
- CONTROL: TTL (ECL IS AVAILABLE)
- POWER SUPPLY: +5 VDC @ 75mA MAXIMUM
-5 VDC @ 20mA MAXIMUM
- SIZE: 1.00" x 1.00" x 0.50"
- WEIGHT: $\leq$ 2.0 OZ.



PMI CONFIDENTIAL AND PROPRIETARY

ENVIRONMENTAL RATINGS

- TEMPERATURE: -40 °C TO +85°C (OPERATING)
-40 °C TO +100 °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 $\pm$ 0.020
X.XXX $\pm$ 0.010

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE		REV.	
DRAWN		7/9/19		PRODUCT FEATURE		A1	
CHECKED				PS-90-0510			
ISSUED							
SIZE		FSCM NO.		DWG NO.			
A		05XQ0		27036860			
SCALE		N:S					
				SHEET		1 OF 1	