

DESCRIPTION

PMI MODEL PDPS-3F-6 OPTION AL, IS A SIX BIT PHASE SHIFTER WITH A SPEED OF 300 nSEC MAXIMUM, (100 nSEC TYPICAL). DESIGNED TO OPERATE AT A FREQUENCY OF 3.0 GHz, WITH A VSWR OF 2.0:1. THIS UNIT HAS AN INSERTION LOSS OF 10 dB MAXIMUM AND A PHASE ACCURACY OF ±6° MAXIMUM, 3° TYPICAL AT 3 GHz.

SPECIFICATIONS

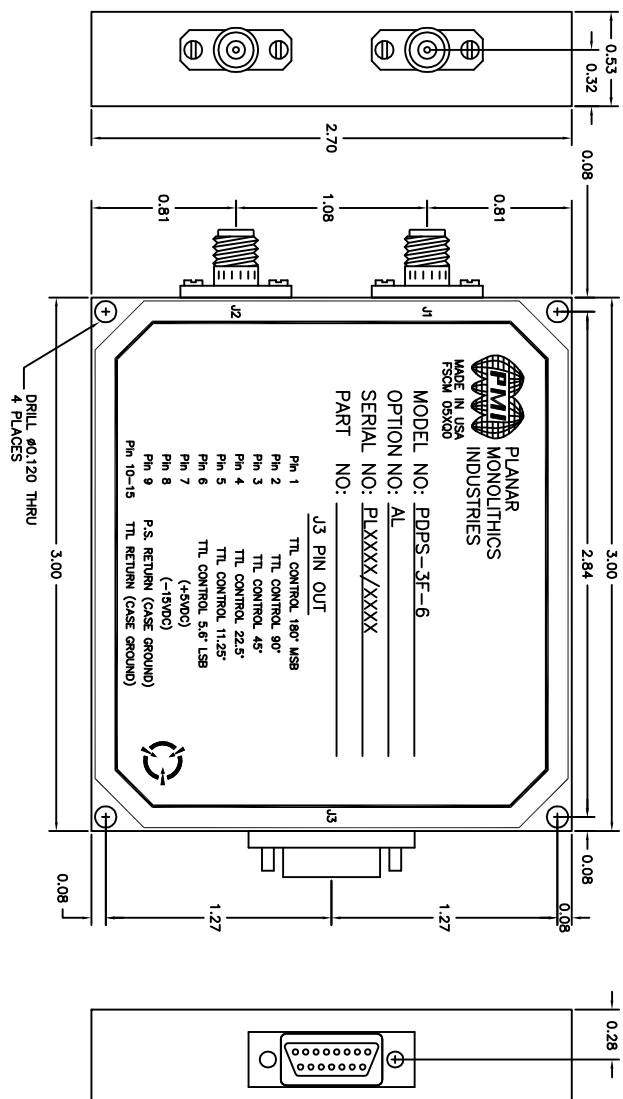
- FREQUENCY RANGE: 3.0 GHz (BANDWIDTH 500MHz)
- INSERTION LOSS: 9 dB TYPICAL, 10 dB MAXIMUM
- VSWR: 2.0:1
- PHASE STATES: 5.6°, 11.2°, 22.4°, 45°, 90°, 180°
- PHASE ACCURACY: ±6° MAXIMUM, 3° TYPICAL @ 3 GHz
- SWITCHING SPEED: 300nSEC MAXIMUM, 100nSEC TYPICAL
- POWER SUPPLY: +5V @ 70 mA TYPICAL, 100 mA MAXIMUM
-15V @ 70 mA TYPICAL, 100 mA MAXIMUM
- CONNECTORS:
 - RF: SMA FEMALE INPUT & OUTPUT
 - CONTROL: TTL THRU "D" MULTIPIN CONNECTOR
- SIZE: 3.00" X 2.70" X 0.53"
- FINISH: 50 uin. GOLD PLATING MIN. OVER COPPER FLASH OVER NICKEL FLASH PER MIL-G 45204 TYPE 2

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°C (OPERATING)
-65°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



REVISIONS			DATE	APPROVED
ZONE	REV.	DESCRIPTION		
A		ORIGINAL RELEASE	6/1/09	

PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001:2000 CERTIFIED



APPROVALS		DATE	TITLE	
DESIGN	gkm	2/17/05	PRODUCT FEATURE	
CHECKED			PDPS-3F-6	
ISSUED			OPTION: AL	
			3 GHz, 6-BIT PHASE SHIFTER	
SCALE	N:S		SIZE	FSOM NO.
			A	OZXZ8
				DWG NO.
				27000672
			REV.	A

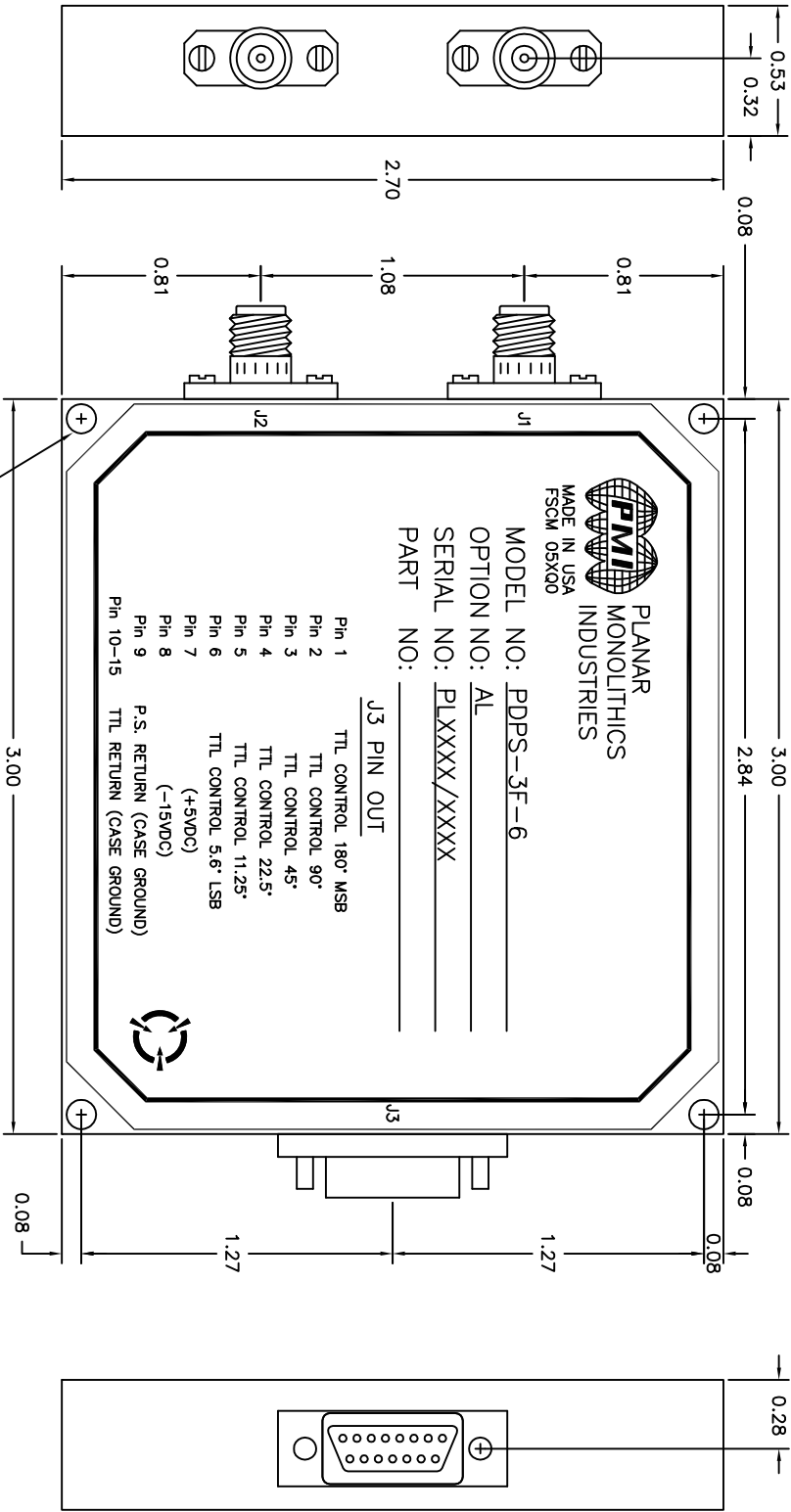
ALL DIMENSIONS ARE IN INCHES
TOLERANCES: ±0.020
X.XXX ±0.010

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MECHANICAL OUTLINE

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TITLE MECHANICAL OUTLINE

PDPS-3F-6

OPTION: AL

3 GHz, 6-BIT PHASE SHIFTER

APPROVALS

DATE

DRAWN *gxc* 2/17/05

CHECKED

ISSUED

SIZE FSCM NO. DWG NO.

A 0ZXZ8 27000672

REV. A

SCALE N:S SHEET 2 OF 3

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