DESCRIPTION

PMI MODEL PDPS-5F-6, IS A SIX BIT PHASE SHIFTER WITH A SPEED OF 300 nSEC MAXIMUM, (100 nSEC TYPICAL). DESIGNED TO OPERATE AT A FREQUENCY OF 5.4 TO 5.9 GHz, WITH A VSWR OF 2.0:1. THIS UNIT HAS AN INSERTION LOSS OF 6.5 dB MAXIMUM AND A PHASE ACCURACY OF $\pm 6^\circ$ MAXIMUM, 3° TYPICAL.

		REVISIONS		
ZONE	REV.	DESCRIPTION	DATE	APPROVED
		SFF FCR# P07-010	05/08/07	

SPECIFICATIONS

• FREQUENCY RANGE: ------ 5.4 TO 5.9 GHz • INSERTION LOSS: ------ 6.5 dB MAXIMUM

• VSWR: -----2.0:1

• PHASE ACCURACY: ±6° MAXIMUM, 3° TYPICAL

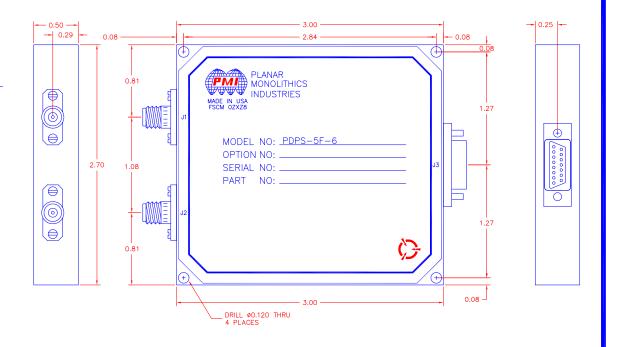
• SWITCHING SPEED: 300nSEC MAXIMUM, 100nSEC TYPICAL

POWER SUPPLY: -----+5V @ 50 mA MAXIMUM
 −15V @ 50 mA MAXIMUM

• CONNECTORS:

RF: SMA FEMALE INPUT & OUTPUT CONTROL: TTL THRU "D" MULTIPIN CONNECTOR

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:

• HUMIDITY: MIL-STD-202F, METHOD 103B COND. B

• SHOCK: MIL-STD-202F, METHOD 213B COND. B

• VIBRATION: ----- MIL-STD-202F, METHOD 204D COND. B

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

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD FREDERICK, MARYLAND 21704 USA TEL: 301-631-1579 FAX: 301-662-2029 WEBSITE: www.pmi-rf.com E-MAIL: sales@pmi-rf.com ISO 9001:2008 CERTIFIED

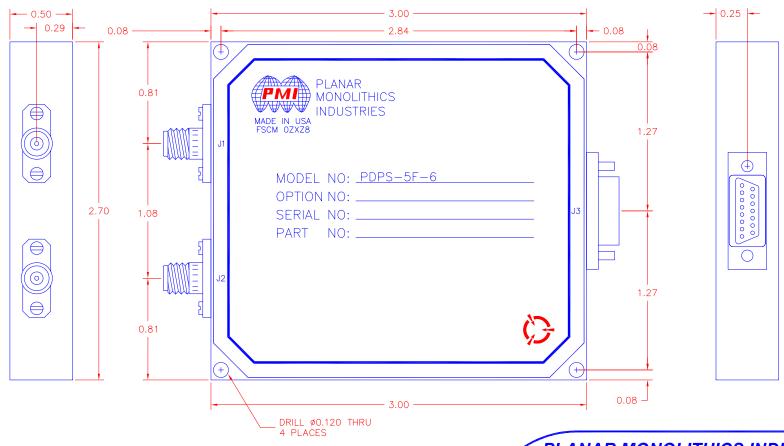


		TITLE		PR	ODUC	T FEATU	IRE		
APPROVALS	DATE		PDPS-5F-6						
DRAWN									
WHS	05/08/07		5.4 - 5.9 GHz, 6-BIT PHASE SHIFTER						
CHECKED		SIZE	FSCM NO.		DWG NO.				REV.
		Α	A 05XQ0 100-P001-000					_	
ISSUED		scale N:S					SHEET	1 OF	3

DESCRIPTION

PMI MODEL PDPS-5F-6, IS A SIX BIT PHASE SHIFTER WITH A SPEED OF 300 nSEC MAXIMUM, (100 nSEC TYPICAL). DESIGNED TO OPERATE AT A FREQUENCY OF 5.4 TO 5.9 GHz, WITH A VSWR OF 2.0:1. THIS UNIT HAS AN INSERTION LOSS OF 6.5 dB MAXIMUM AND A PHASE ACCURACY OF ±6° MAXIMUM. 3° TYPICAL.

	REVISIONS										
ONE	REV.	DESCRIPTION	DATE	APPROVED							
		SFF FCR# P07-010	05/08/07								



MECHANICAL OUTLINE

ALL DIMENSIONS ARE IN INCHES TOLERANCES:

X.XX ±0.020

X.XXX ±0.010

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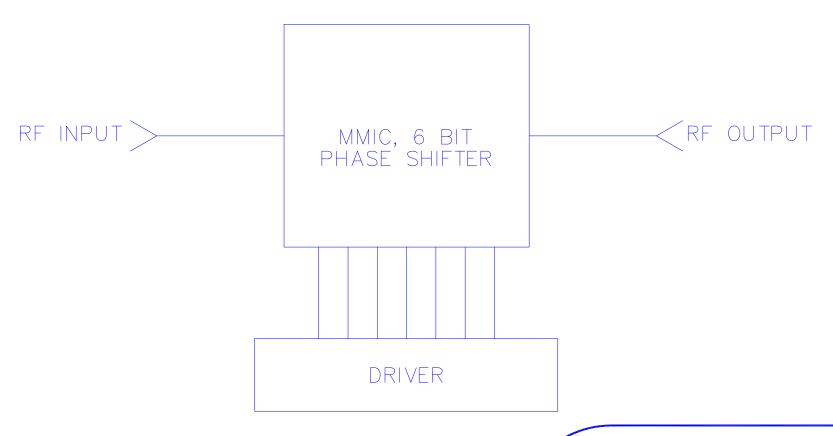
	MECHANICAL OUTLINE								
APPROVALS	PDPS-5F-6								
DRAWN			1 21 0 01 0						
\mathcal{WHS}	05/08/07		5.4 - 5.9 GHz, 6-BIT PHASE SHIFTER						
CHECKED		SIZE	FSCM NO.		DWG NO.				REV.
1001150		A 05XQ0			100-P001-000			_	
ISSUED		scale N:S					SHEET	2 OF	3

DESCRIPTION

PMI MODEL PDPS-5F-6, IS A SIX BIT PHASE SHIFTER WITH A SPEED OF 300 nSEC MAXIMUM, (100 nSEC TYPICAL). DESIGNED TO OPERATE AT A FREQUENCY OF 5.4 TO 5.9 GHz, WITH A VSWR OF 2.0:1. THIS UNIT HAS AN INSERTION LOSS OF 6.5 dB MAXIMUM AND A PHASE ACCURACY OF $\pm 6^\circ$ MAXIMUM, 3° TYPICAL.

	REVISIONS										
ZONE	REV.	DESCRIPTION	DATE	APPROVED							
	_	SFF FCR# P07-010	05/08/07								

FUNCTIONAL BLOCK DIAGRAM



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		TITLE	FUI	NCTIC	NAL	BLOCK	DIAGF	RAM	
APPROVALS DATE			PDPS-5F-6						
DRAWN	DRAWN					0 0, (
WHS	05/08/07		5.4 - 5.9 GHz, 6-BIT PHASE SHIFTER						
CHECKED		SIZE	FSCM NO.		DWG NO.				REV.
ICCUED		Α	05)	(QO		100-F	P001-	-000	_
ISSUED		SCALE	N:S				SHEET	3 OF	3

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