

## DESCRIPTION

PMI MODEL NUMBER PS-360-2433D5-6-SFF-1 IS A 2433.5 MHz 6 BIT DIGITALLY CONTROLLED PHASE SHIFTER WITH CAPABILITY FOR PHASE SHIFTING FROM 0° TO 360°, WITH RESOLUTION AS FINE AS 5.6°.

## SPECIFICATIONS

- FREQUENCY: ..... 2433.5 MHz  $\pm$ 1 MHz
- INSERTION LOSS ..... 6dB Typ., 8dB Max.
- VSWR: ..... 2.0:1 Typ.
- PHASE STATES ..... SEE TABLE
- PHASE ACCURACY .....  $\pm$ 8° Typ.
- SWITCHING SPEED ..... 150 ns Typ., 250 ns Max.
- CONTROL ..... 6 BIT TTL
- RF INPUT POWER: ..... 500 mW @ 21% Duty cycle
- SURVIVAL POWER ..... +33dBm CW Max.
- POWER SUPPLY
  - +V: ..... +5VDC @ 80 mA
  - V: ..... -15VDC @ 80 mA
- CONNECTORS (RF) ..... SMA Female
- CONNECTOR (CONTROL & VOLTAGE) ..... 15 PIN Subminiature D (male)
- TTL: LOGIC "0" (BIT OFF) ..... -0.3 to +0.8V  
 LOGIC "1" (BIT ON) ..... +2.0 to +5.0V
- SIZE: ..... 2.00" X 2.10" X 0.50"
- FINISH ..... Painted Gray

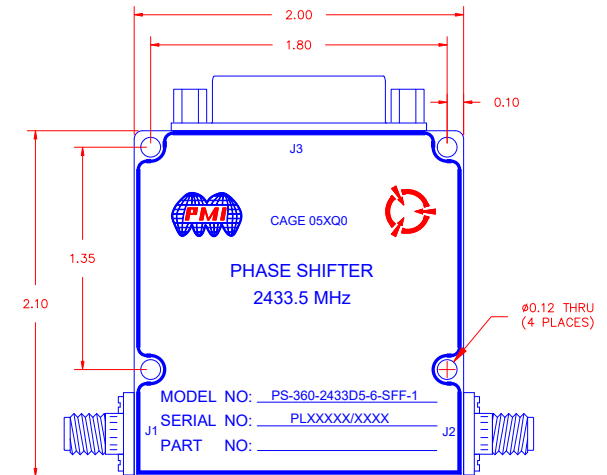
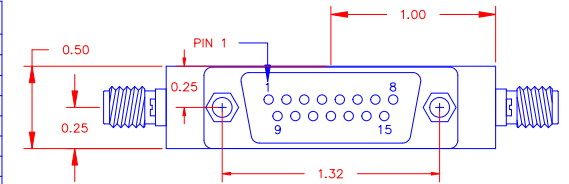
## ENVIRONMENTAL RATINGS

- TEMPERATURE: ..... -40°C TO +70°C (OPERATING)  
 ..... -40°C TO +85°C (STORAGE)
- 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

PIN NO:	J3 PIN FUNCTIONS
1	GND
2	NOT USED
3	NOT USED
4	GND
5	NOT USED
6	NOT USED
7	5.6° (LSB)
8	11.2°
9	22.5°
10	45°
11	90°
12	180° (MSB)
13	-15V
14	+5V
15	NOT USED (LATCH)

TRUTH TABLE						
PHASE	180°	90°	45°	22.5°	11.2°	5.6°
0°	0	0	0	0	0	0
5.6°	0	0	0	0	0	1
11.2°	0	0	0	0	1	0
22.5°	0	0	0	1	0	0
45°	0	0	1	0	0	0
90°	0	1	0	0	0	0
180°	1	0	0	0	0	0
354.4°	1	1	1	1	1	1



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## PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD  
 FREDERICK, MARYLAND 21704 USA  
 TEL: 301-662-5019 FAX: 301-662-1731  
 WEBSITE: [www.pmi-rf.com](http://www.pmi-rf.com)  
 E-MAIL: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)



ISO 9001:2000 CERTIFIED

APPROVALS		DATE	TITLE		REV.
DRAWN NJA		2/9/12	PRODUCT FEATURE PS-360-2433D5-6-SFF-1 2433.5 MHz PHASE SHIFTER		A
MODIFIED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27016181
ISSUED			SCALE N:S		SHEET 1 OF 1

ALL DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 X.XX  $\pm$ 0.020  
 X.XXX  $\pm$ 0.010