

## DESCRIPTION

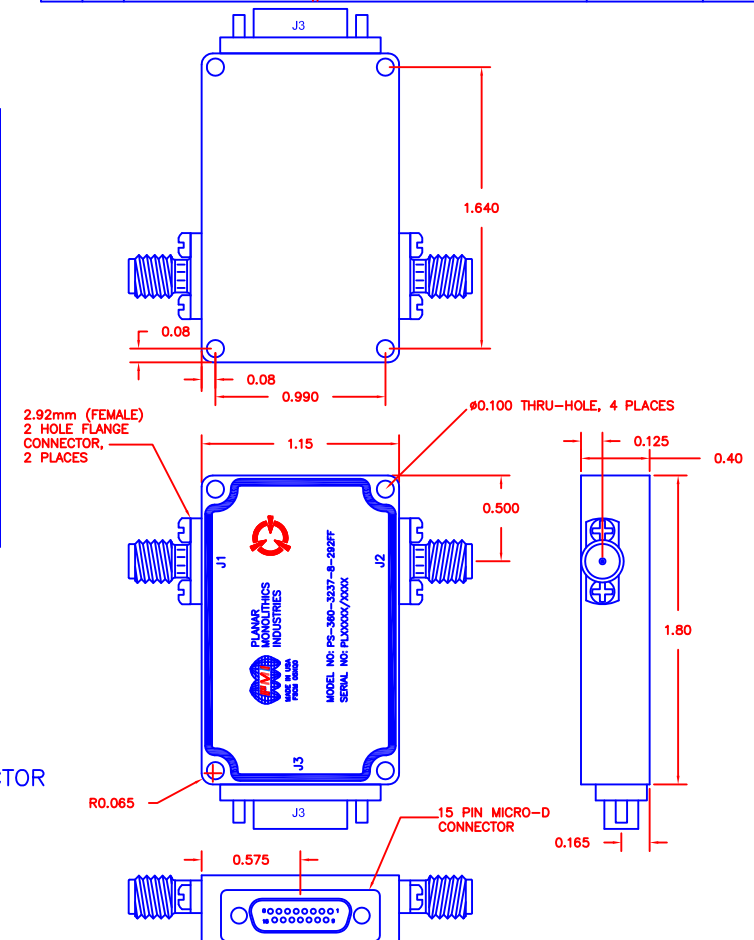
PMI MODEL PS-360-3237-8-292FF IS A HIGH SPEED 32 TO 37 GHz FREQUENCY RANGE PHASE SHIFTER WITH AN 8-BIT TTL CONTROL. THIS MODEL OFFERS A LOW PHASE SHIFT ERROR OF TYPICALLY +/-5.0 DEGREES.

## SPECIFICATIONS

- FREQUENCY RANGE: 32 TO 37 GHz
- INSERTION LOSS: 13.0 dB TYPICAL
- VSWR INPUT: 2.0:1 TYP, 2.3:1 MAX (J2)
- VSWR OUTPUT: 2.5:1 TYP, 3.0:1 MAX (J1)
- LSB: 1.40625°
- CONTROL BITS: 8 LINE (TTL CONTROL)
- MAX PHASE SHIFT: 358.59375°
- AMPLITUDE ERROR: ±1.5dB TYP.
- PHASE SHIFT ERROR: ±5.0° TYP.
- SWITCHING SPEED: 500ns MAX
- POWER SUPPLY: +15V @90mA MAX  
-15V @60mA MAX
- RF CONNECTORS: 2.92mm FEMALE INPUT & OUTPUT
- CONTROL: (MDM15SSP) 15 PIN MICRO-D SHIPPED WITH MATING CONNECTOR
- SIZE: 1.150" X 1.800" X 0.4"
- FINISH: GRAY EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.

15-PIN CONNECTOR PIN-OUT	
PIN	FUNCTION
1	CTL1 (LSB)
2	CTL2
3	CTL3
4	CTL4
5	CTL5
6	CTL6
7	CTL7
8	CTL8 (MSB)
9	NC
10	NC
11	NC
12	NC
13	+15 VDC
14	GND
15	-15 VDC

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	6-13-12	
A1		ECN # 13-0030	5-2-13	PX 5/9/13



PMI CONFIDENTIAL AND PROPRIETARY

## ENVIRONMENTAL RATINGS

- TEMPERATURE: -55°C TO +85°C (OPERATING)  
-65°C TO +125°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 ±0.020  
X.XXX ±0.010

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ISO 9001:2000 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>RJV</i>		1-30-13	PRODUCT FEATURE PS-360-3237-8-292FF 32 TO 37 GHz PHASE SHIFTER			
MODIFIED			SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0	27017021	A1
			SCALE	N:S		SHEET 1 OF 1