

# DESCRIPTION

PMI MODEL NUMBER PS-360-900M930M-6-SFF IS A 900 TO 930MHz 6 BIT DIGITALLY CONTROLLED PHASE SHIFTER WITH CAPABILITY FOR PHASE SHIFTING FROM 0° TO 360°, WITH RESOLUTION AS FINE AS 5.6°.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	11/7/12	

# SPECIFICATIONS

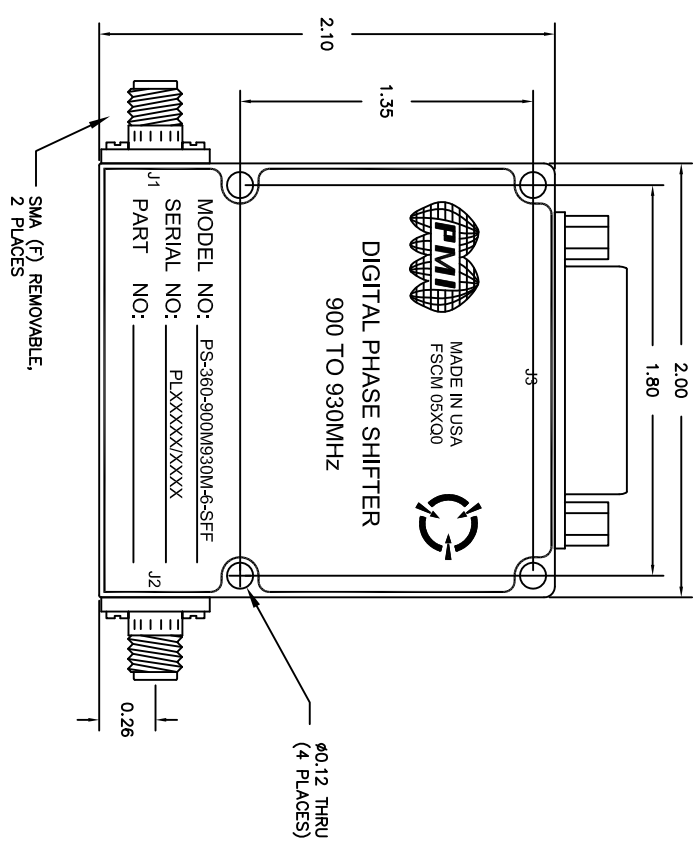
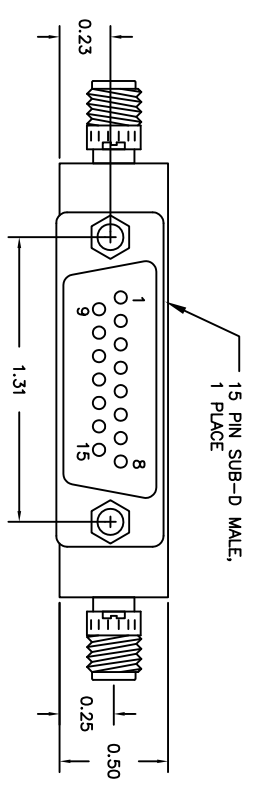
- FREQUENCY: 900 TO 930MHz
- SWITCHING SPEED: 1us Max
- INSERTION LOSS: 6dB Goal, 7.5dB Max.
- VSWR: 2.0:1 Typ.
- OPERATING INPUT POWER: +14dBm CW Max
- POWER SUPPLY
  - +V: +15VDC @ 80 mA
  - V: -15VDC @ 80 mA

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	+15V
15	NOT USED (LATCH)

TRUTH TABLE

- CONNECTORS (RF): SMA Female
- CONNECTOR (CONTROL & VOLTAGE): 15 PIN SUBMINIATURE D (MALE)
- CONTROL: 6 BIT TTL
- PHASE STATES: SEE TABLE
- 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

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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# ENVIRONMENTAL RATINGS

- TEMPERATURE: 0°C TO +50°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

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

APPROVALS	DATE	TITLE	SIZE	FSCM NO.	DWG NO.	REV.
<i>sk</i>	11/7/12	PRODUCT FEATURE	A	05X00	27017321	A
ISSUED		PS-360-900M930M-6-SFF	SCALE	N:S		SHEET 1 OF 1