

DESCRIPTION

PMI MODEL NUMBER PS-360-700M1100M-6-SFF-OPT1020 IS A 1020 TO 1100 MHz 6 BIT DIGITALLY CONTROLLED PHASE SHIFTER WITH CAPABILITY FOR PHASE SHIFTING FROM 0° TO 360°, WITH RESOLUTION AS FINE AS 5.6°.

SPECIFICATIONS

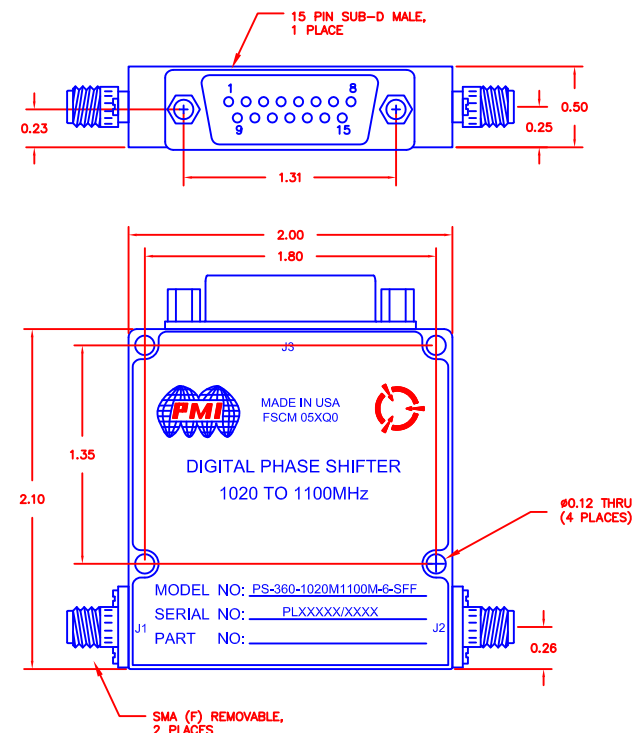
- FREQUENCY: 1020 TO 1100 MHz
- SWITCHING SPEED 1us Max
- INSERTION LOSS 7.5 dB Goal
- VSWR: 2.5:1 Typ.
- OPERATING INPUT POWER: +14dBm CW Max
- POWER SUPPLY
 - +V: +15VDC @ 80 mA
 - V: -15VDC @ 80 mA
- CONNECTORS (RF) SMA Female
- CONNECTOR (CONTROL & VOLTAGE) 15 PIN SUBMINIATURE D (MALE)
- CONTROL 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 BLUE

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

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

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	—	PRELIMINARY	5/19/16
APPROVED			



CONFIDENTIAL AND PROPRIETARY

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:
X.XX ±0.020
X.XXX ±0.010

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
E-MAIL: sales@pmi-rf.com
ISO 9001:2000 CERTIFIED



APPROVALS		DATE		TITLE			
DRAWN		5/19/16		PRODUCT FEATURE			
MODIFIED				PS-360-700M1100M-6-SFF-OPT1020			
ISSUED				SIZE	FSCM NO.	DWG NO.	REV.
				A	05XQ0	PRELIMINARY	—
				SCALE	N:S	SHEET	1 OF 1