

DESCRIPTION

PMI MODEL NUMBER PS-2D2G-360-CD-1 IS A 2170 TO 2200MHz 9 BIT DIGITALLY CONTROLLED PHASE SHIFTER WITH CAPABILITY FOR PHASE SHIFTING FROM 0° TO 360°, WITH RESOLUTION AS FINE AS 0.7°.

SPECIFICATIONS

- FREQUENCY RANGE: 2170 TO 2200MHz
- RF INPUT POWER: 10dBm MAX.
- RF INPUT POWER (SURVIVAL): +15dBm MAX.
- INSERTION LOSS: 19dB MAX
- INSERTION LOSS VS FREQ.: +/-0.25dB MAX.
- INSERTION LOSS VS TEMP.: +/-1.0dBpp TYP.
(OVER ANY 15°C TEMP. RANGE)
- INSERTION LOSS VS PHASE.: +/-0.3dB GOAL, +/-0.5dB MAX.
- PHASE CONTROL RANGE: 360 DEGREES
- PHASE VERSUS TEMP.: +/-2 DEGREES TYP. (OVER ANY 15°C TEMP. RANGE)
- RF IMPEDANCE: 50 OHMS
- RESOLUTION: <1 DEGREE TYP.
- ACCURACY: +/-1 DEGREE TYP.
- IP3: +25dBm TYP.
- CONTROL: 9 BIT TTL (SEE PIN FUNCTION TABLE)
- INPUT VSWR: 1.3:1 MAX.
- OUTPUT VSWR: 1.4:1 MAX.
- SWITCHING SPEED: 10 us TYP.
- POWER SUPPLY
 - +V: +12V, 200mA MAX. 150 mA TYP.
- POWER SUPPLY RIPPLE: 150mVpp
- SIZE: 2.00" X 2.10" X 0.50"
- CONNECTORS (RF): SMA FEMALE
- CONNECTOR (CONTROL): 15 PIN SUBMINIATURE D (MALE)
- FINISH: PAINTED GRAY

ENVIRONMENTAL RATINGS

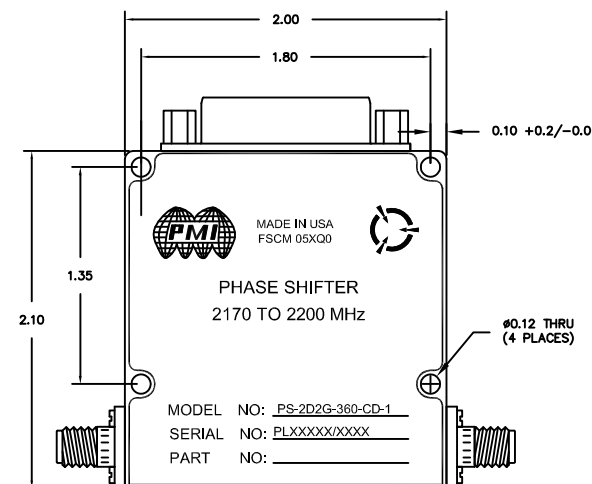
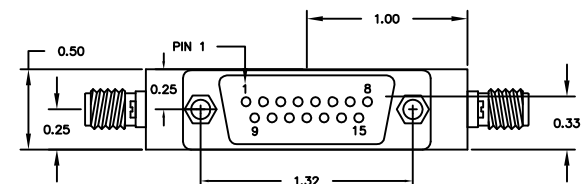
- TEMPERATURE:** +10°C TO +40°C (OPERATING)
-20°C TO +85°C (STORAGE)
- SHOCK:** MIL-STD-202F, METHOD 213B COND. B
- VIBRATION:** MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE:** MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE:** MIL-STD-202F, METHOD 107D COND. A

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

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	A	ORIGINAL RELEASE	11/4/11
	B	0.5 IN. HIGH HOUSING	11/9/11
	C	REMOVED NEGATIVE SUPPLY	09/09/12

PIN NO:	J3 PIN FUNCTIONS
1	GND
2	NOT USED
3	0.7°
4	GND
5	1.4°
6	2.8°
7	5.6°
8	11.2°
9	22.5°
10	45°
11	90°
12	180°
13	NOT USED
14	+12V
15	NOT USED



CONFIDENTIAL AND PROPRIETARY

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 9001:2008 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN		NJA	PRODUCT FEATURE			
MODIFIED			PS-2D2G-360-CD-1			
ISSUED			2170 to 2200MHz, PHASE SHIFTER			
SIZE		FSCM NO.	DWG NO.		REV.	
A		05XQ0	27015621		C	
SCALE		N:S	SHEET		1 OF 1	