

DESCRIPTION

PMI MODEL NUMBER PS-360-8D5G11G-8-SFF-LVT-15D IS AN 8.5 TO 11 GHz 8 BIT DIGITALLY CONTROLLED PHASE SHIFTER WITH CAPABILITY FOR PHASE SHIFTING FROM 0° TO 360°, WITH RESOLUTION AS FINE AS 1.41°.

SPECIFICATIONS

- FREQUENCY RANGE: 8.5 TO 11 GHz
- INPUT POWER: (OPERATING): 13dBm Max
- INPUT POWER (SURVIVAL): 30dBm MAX.
- INSERTION LOSS: 10dB TYP, 12DB MAX
- PHASE CONTROL RANGE: 360° Min
- PHASE CONTROL BITS: POSITIVE BINARY 8 BIT LVTTL
- PHASE LSB STEP: 1.41°
- PASSBAND PHASE ACCURACY: ±9° TYP, ±12° MAX
- PHASE FLATNESS: ±12° MAX (OVER ANY 1 GHz IN THE PASSBAND)
- PM/AM: ±2 dB MAX
- SPURIOUS SIGNALS: -130 dBm MAX (NO RF INPUT OR CONTROL UPDATES)
- SWITCHING SPEED: 500 ns MAX. (DIGITAL DELAY + RF ENVELOPE RISE/FALL TIME)
- VSWR: (IN/OUT): 2.0:1 MAX.
- CONNECTORS (RF): SMA FEMALE
- CONNECTOR (CONTROL): 15 PIN MALE MICRO D CONNECTOR MATING CONNECTOR SHIPPED WITH UNIT
- POWER SUPPLY: +15VDC @ 250mA MAX ±5%.
-15VDC @ 20mA MAX ±5%.
- SIZE: (L) 1.60" X (W) 1.75" X (H) 0.50"
*EXCLUDING MOUNTING HOLES + CONNECTOR
- 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.

CONTROL (J3) SELECT & DC POWER INPUTS

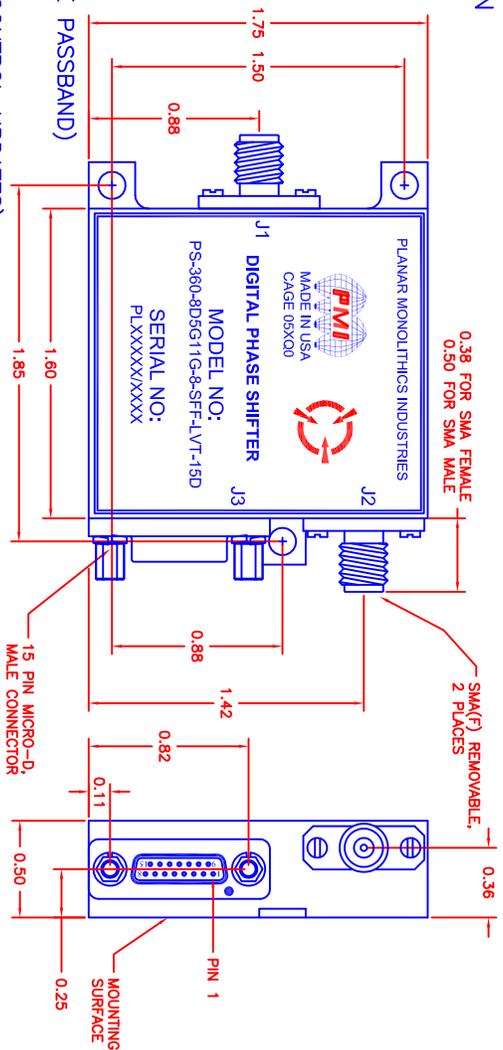
- SIGNAL TYPE: LVTTL POSITIVE BINARY LOGIC PHASE SHIFT CONTROL
- BIT SELECTED: LVTTL HIGH
- BIT NOT SELECTED: LVTTL LOW
- * INPUTS SHALL NOT PRESENT A VOLTAGE OUTSIDE THE RANGE OF 0V TO +3.3V AT ANY TIME

ENVIRONMENTAL RATINGS

- TEMPERATURE: 0°C TO +85°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

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

REVISIONS		DATE	APPROVED
ZONE	REV.	DESCRIPTION	
	1	ORIGINAL RELEASE	1/12/15
	A1	ECN # 16-0063	05-05-16



CONNECTOR TABLE

PIN	FUNCTION	PIN	FUNCTION
1	GROUND	9	90°
2	+5V	10	180° (MSB)
3	-12V TO -15V	11	N/C
4	1.4° (LSB)	12	45°
5	2.8°	13	GROUND
6	5.6°	14	N/C
7	22.5°	15	N/C
8	11.3°		

PMI CONFIDENTIAL AND PROPRIETARY

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 ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE	
DRAWN	APPROVED	1/12/15	PRODUCT FEATURE	
MODIFIED				
ISSUED				
PS-360-8D5G11G-8-SFF-LVT-15D			SIZE	REV.
8.5 to 11 GHz, PHASE SHIFTER			FSCM NO. A	A1
			DWG NO. 27023727	
			SCALE N:S	SHEET 1 OF 1

ALL DIMENSIONS ARE IN INCHES
 TOLERANCES:
 XXX ±0.020
 XXX ±0.010