

DESCRIPTION

PMI MODEL NUMBER PS-360-8D5G11G-8-SFF-LVT 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) 14-PIN MALE HERMETIC CONNECTOR IAW MIL-C-28748
MATING CONNECTOR SHIPPED WITH UNIT (*18 WEEK LEAD TIME*)
- 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

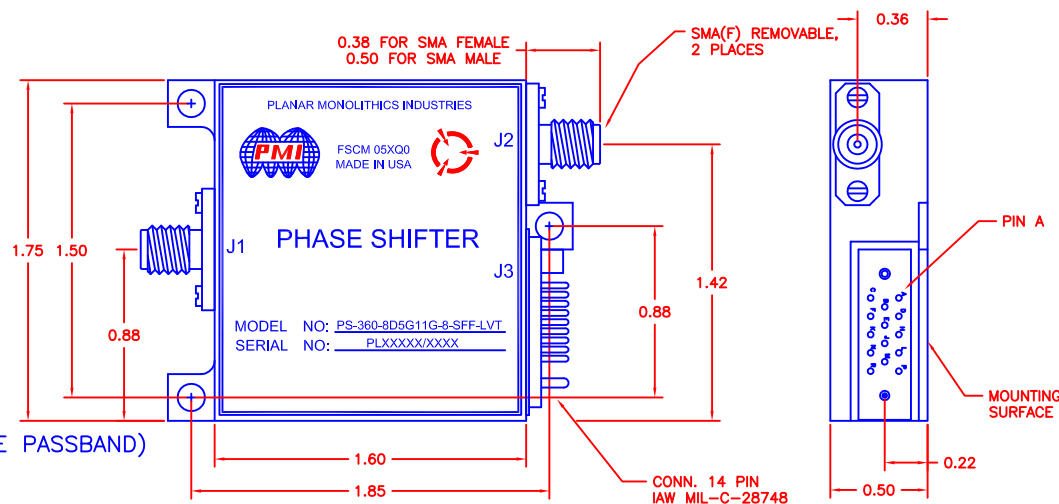
ENVIRONMENTAL RATINGS

- 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

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	12/2/11	
	A2	ECN # 14-0096	7/09/14	



PIN NO:	J3 PIN FUNCTIONS
A	GND
B	N/C
C	-15VDC
D	1.41° (LSB)
E	2.82°
F	5.68°
H	22.5°
J	11.3°
K	90.0°
L	180° (MSB)
M	+15VDC
N	45.0°
P	GND
R	N/C

PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE		TITLE	
DRAWN	NJA	12/2/11		PRODUCT FEATURE	
MODIFIED				PS-360-8D5G11G-8-SFF-LVT	
ISSUED				8.5 to 11 GHz, PHASE SHIFTER	
SIZE		FSCM NO.		DWG NO.	
A		05XQ0		27015701	
SCALE		N:S		SHEET	
				1 OF 1	