

DESCRIPTION

PMI MODEL PS-2G18G-360-8D-AMP IS A 2 TO 18 GHz, 8-BIT, VECTOR PHASE SHIFTER MAKING IT IDEAL FOR FREQUENCY TRANSLATION WHERE CONTINUOUS MONOTONIC PHASE SHIFTING IS REQUIRED. THIS MODEL ALSO FEATURES HIGH SPEED SWITCHING, AND TYPICALLY LOWER THAN 60 dB HARMONIC DISTORTION, WITH AN INTERNAL AMPLIFIER TO REDUCE THE INSERTION LOSS TO 4 dB.

SPECIFICATIONS

- FREQUENCY RANGE: 2.0–18.0 GHz
- PHASE RANGE: 360 DEGREES
- RF INPUT POWER: +20 dBm CW, 1.0 Watt MAX
- INSERTION LOSS: 4.0 dB MAX
- NOISE FIGURE: 20 dB MAX
- VSWR: 2.2:1 MAX (50 OHM SYSTEM)
- PHASE VS FREQUENCY: ± 15.0 DEGREES TYP.
- CONTROL LOGIC: 8 BIT TTL COMPATIBLE
- CONTROL SLOPES: LINEAR
- SWITCHING SPEED: 500 nSec MAX
- POWER SUPPLY: $\pm 12V$ TO $\pm 15V$ @ $\pm 100mA$ MAX
- RF CONNECTORS: SMA FEMALE INPUT AND OUTPUT
- POWER/LOGIC CONNECTIONS: DC–37P, SUB MINIATURE D MULTI–PIN
- SIZE: 4.250" X 3.500" X 1.000"
- FINISH: PAINTED BLUE

ENVIRONMENTAL RATINGS

- TEMPERATURE RANGE: –40°C TO +85°C (OPERATING)
–65°C TO +125°C (STORAGE)
- HUMIDITY: MIL–STD–202G, METHOD 103B COND. B
- SHOCK: MIL–STD–202G, METHOD 213B COND. B
- VIBRATION: MIL–STD–202G, METHOD 204D COND. B
- ALTITUDE: MIL–STD–202G, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL–STD–202G, 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
	—	PRELIMINARY	3/22/16

37–PIN CONNECTOR PIN–OUT			
PIN	FUNCTION	PIN	FUNCTION
1	1.41 DEG (LSB)	20	NC
2	2.81 DEG	21	5.63 DEG
3	11.25 DEG	22	NC
4	22.5 DEG	23	NC
5	45 DEG	24	NC
6	90 DEG	25	180 DEG (MSB)
7	NC	26	NC
8	+12 TO +15V	27	NC
9	GND	28	GND
10	GND	29	NC
11	–12 TO –15V	30	NC
12	NC	31	NC
13	NC	32	NC
14	NC	33	NC
15	NC	34	NC
16	NC	35	NC
17	NC	36	NC
18	NC	37	NC
19	NC		

PMI CONFIDENTIAL AND PROPRIETARY

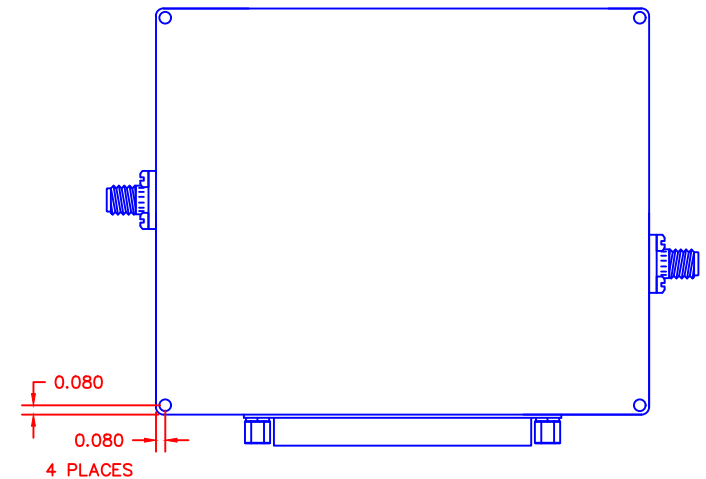
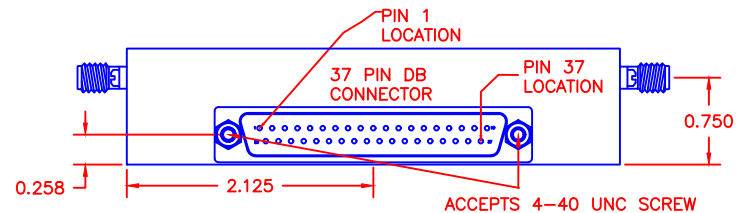
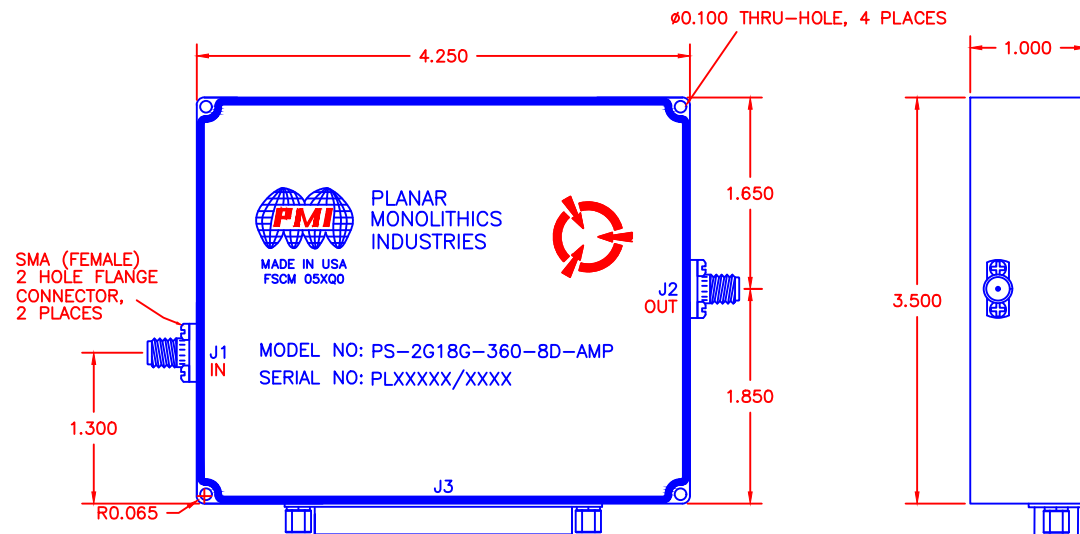
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ISO 9001:2008 CERTIFIED



APPROVALS		DATE	TITLE			REV.
DRAWN		PJK	PRODUCT FEATURE			—
MODIFIED			PS–2G18G–360–8D–AMP			
ISSUED			SIZE	FSCM NO.	DWG NO.	
			A	05XQ0	PRELIMINARY	
			SCALE	N:S	SHEET	1 OF 2

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
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		TITLE PRODUCT FEATURE PS-2G18G-360-8D-AMP			
APPROVALS	DATE				
DRAWN PJK	3/22/16				
MODIFIED		SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REV. —
ISSUED		SCALE N:S		SHEET 2 OF 2	

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X.XXX ±0.010