

DESCRIPTION

PMI MODEL PS-4G12G-360-12B-SFF IS A 4 TO 12GHz, 12-BIT, VECTOR PHASE SHIFTER MAKING IT IDEAL FOR FREQUENCY TRANSLATION WHERE CONTINUOUS MONOTONIC PHASE SHIFTING IS REQUIRED. THIS MODEL ALSO FEATURES HIGH SPEED SWITCHING OF 500NSEC, AND TYPICALLY LOWER THAN 60dB HARMONIC DISTORTION.

SPECIFICATIONS

- FREQUENCY RANGE:_____ 4.0–12.0 GHz
- PHASE RANGE: _____ 360 DEGREES
- RF INPUT POWER:_____ +20 dBm CW, 1.0 Watt MAX
- INSERTION LOSS: _____ 16.0 dB MAX
- VSWR:_____ 2.2:1 MAX (50 OHM SYSTEM)
- ATTENUATION VS FREQUENCY: _____ ± 2.0 dB TYP.
- PHASE VS FREQUENCY: _____ ± 15.0 DEGREES TYP.
- CONTROL LOGIC: _____ 12 BIT TTL COMPATIBLE
- CONTROL SLOPES: _____ LINEAR
- SWITCHING SPEED:_____ 500 nSec MAX
- POWER SUPPLY:_____ ± 12V TO ± 15V @ ±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:–10°C TO +60°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	APPROVED
	—	PRELIMINARY	5–14–14	

37–PIN CONNECTOR PIN–OUT			
PIN	FUNCTION	PIN	FUNCTION
1	1.41 DEG	20	0.70 DEG
2	2.81 DEG	21	5.63 DEG
3	11.25 DEG	22	0.35 DEG
4	22.5 DEG	23	0.18 DEG
5	45 DEG	24	0.09 DEG (LSB)
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

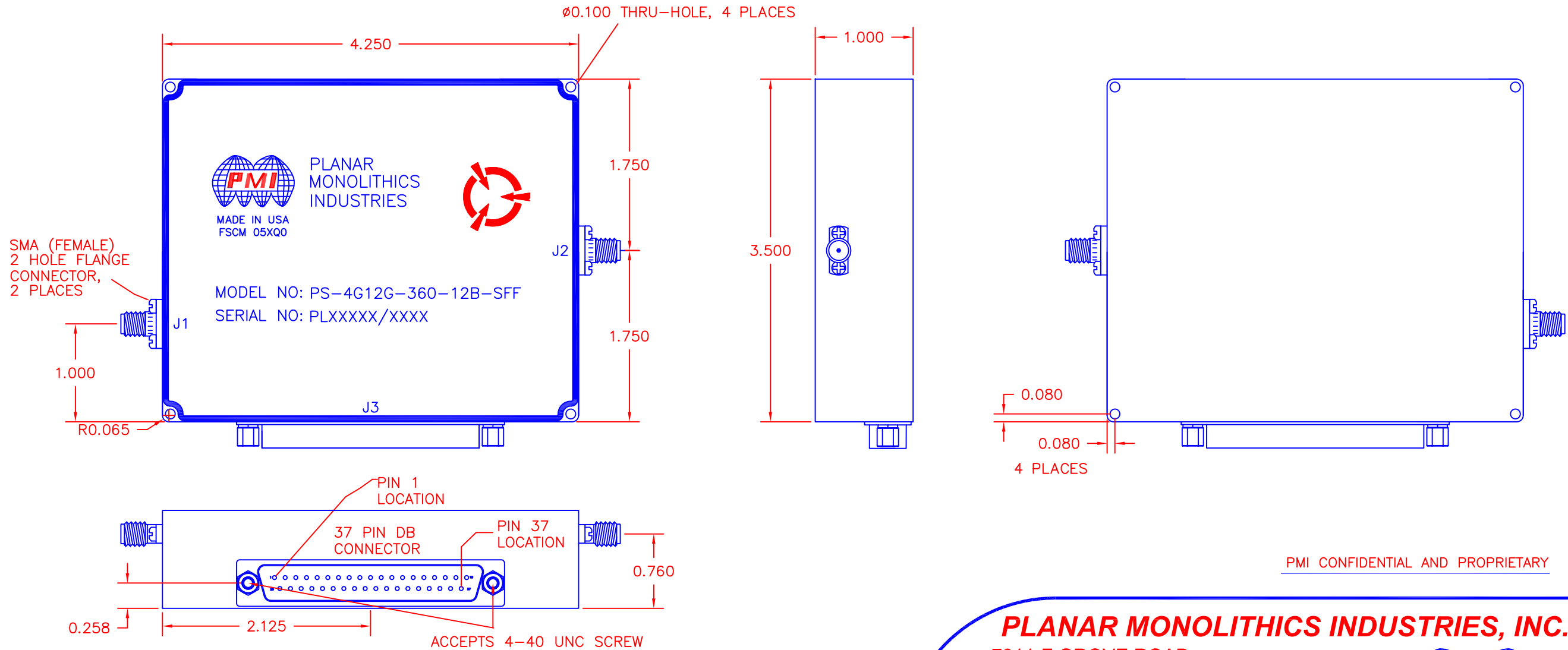
PLANAR MONOLITHICS INDUSTRIES, INC.

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		PJK		5–14–14		PRODUCT FEATURE	
MODIFIED						PS–4G12G–360–12B–SFF	
ISSUED						PRELIMINARY	
				SIZE		FSCM NO.	
				A		05XQ0	
				SCALE		N:S	
						SHEET	
						1 OF 2	

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	PRELIMINARY	5-14-14	



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APPROVALS		DATE		TITLE	
DRAWN		PJK		PRODUCT FEATURE	
MODIFIED				PS-4G12G-360-12B-SFF	
ISSUED				PRELIMINARY	
SIZE		FSCM NO.		DWG NO.	
A		05XQ0		PRELIMINARY	
SCALE		N:S		SHEET	
				2 OF 2	

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