

DESCRIPTION

PMI MODEL: PS-2G18G-360-12D-TS-OPT618 IS A 6.0 TO 18.0 GHz, 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, AND TYPICALLY LOWER THAN 60dB HARMONIC DISTORTION.

SPECIFICATIONS

- FREQUENCY RANGE: ----- 6.0 TO 18.0 GHz
- PHASE RANGE: ----- 360°
- RF INPUT POWER: ----- +20 dBm CW, 1.0 WATT MAX
- INSERTION LOSS: ----- 18.0 dB MAX
- VSWR: ----- 2.2:1 MAX (50 OHM SYSTEM)
- PHASE VS FREQUENCY: ----- ±15.0° TYP
- CONTROL LOGIC: ----- 12 BIT TTL COMPATIBLE
- CONTROL SLOPES: ----- LINEAR
- SWITCHING SPEED: ----- 500 ns MAX
- POWER SUPPLY: ----- ±12 V TO ±15 V @ ±100mA MAX
- RF CONNECTORS: ----- SMA FEMALE INPUT AND OUTPUT
- POWER/LOGIC CONNECTIONS: ----- DC-37P, SUB MINIATURE D MULTI-PIN
- TEMP SENSOR: ----- 10 mV/°C, 3 V @ 25 °C
- SIZE: ----- 4.25" X 3.50" X 1.00"
- FINISH: ----- PAINTED BLUE

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- +10 °C TO +50 °C (OPERATING)
----- -65 °C TO +125 °C (STORAGE)
- HUMIDITY: ----- MIL-STD-202F, METHOD 103B COND. B
- 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

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	3/28/2019	

37-PIN CONNECTOR PIN-OUT

PIN	FUNCTION	PIN	FUNCTION
1	1.41°	20	0.7°
2	2.81°	21	5.63°
3	11.25°	22	NC
4	22.5°	23	NC
5	45°	24	NC
6	90°	25	180° (MSB)
7	NC	26	NC
8	+12V TO +15V	27	NC
9	GND	28	GND
10	GND	29	NC
11	-12V TO -15V	30	TEMP SENSOR
12	NC	31	TEMP SENSOR RETURN
13	NC	32	NC
14	NC	33	NC
15	NC	34	NC
16	NC	35	NC
17	0.09° (LSB)	36	NC
18	0.18°	37	NC
19	0.35°		

PLANAR MONOLITHICS INDUSTRIES, INC.

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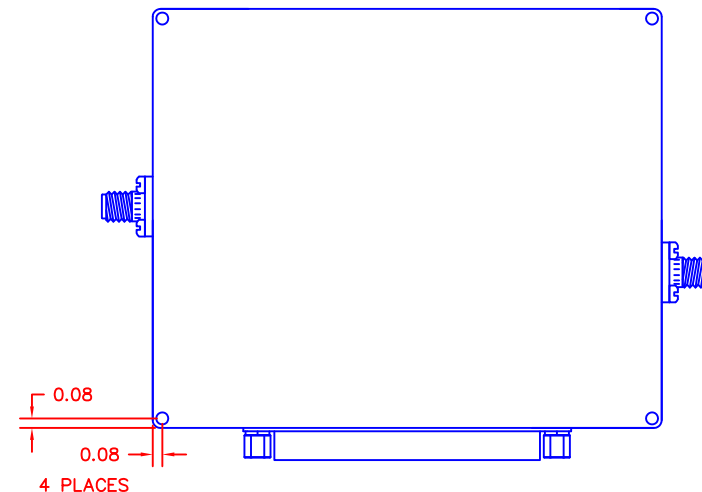
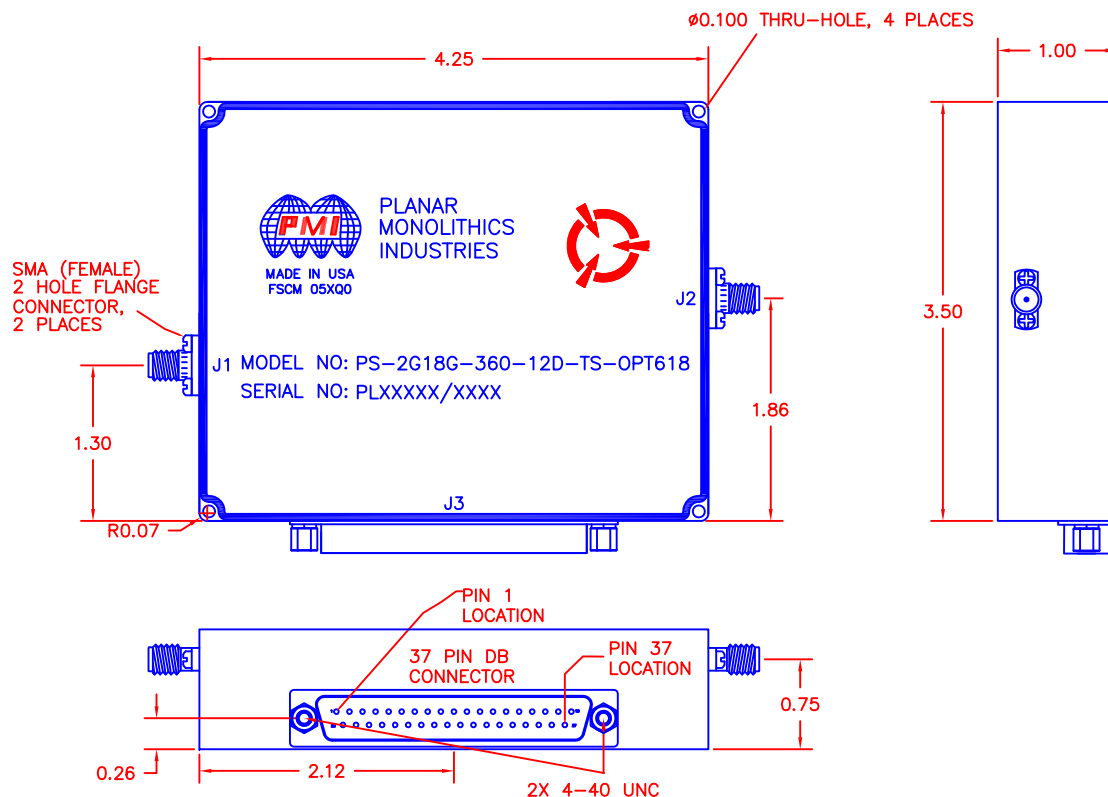
ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE			
DRAWN		1/8/16		PRODUCT FEATURE			
REDRAWN		3/28/19		PS-2G18G-360-12D-TS-OPT618			
ISSUED				SIZE	FSCM NO.	DWG NO.	REV.
				A	05XQ0	PRELIMINARY	-
				SCALE	N:S	SHEET	1 OF 2

MECHANICAL OUTLINE

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	3/28/2019	



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

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DRAWN			PRODUCT FEATURE PS-2G18G-360-12D-TS-OPT618			
REDRAWN						
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	PRELIMINARY	-
			SCALE	N:S	SHEET	2 OF 2