

DESCRIPTION:
PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER PS-2G18G-360-12D-TS IS A 2 TO 18 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:..... 2.0 TO 18.0 GHz
- PHASE RANGE:..... 360°
- RF INPUT POWER:.....+20 dBm CW, 1.0 WATT MAXIMUM
- INSERTION LOSS:.....18.0 dB MAXIMUM
- VSWR:..... 2.2:1 MAXIMUM (50 OHM SYSTEM)
- PHASE VS FREQUENCY:..... ±15.0° TYPICAL
- CONTROL LOGIC:..... 12 BIT TTL COMPATIBLE
- CONTROL SLOPES:..... LINEAR
- SWITCHING SPEED:..... 500 ns MAXIMUM
- POWER SUPPLY:..... ±12V TO ±15V @ ±100 mA MAXIMUM
- RF CONNECTORS:..... SMA FEMALE INPUT AND OUTPUT
- POWER/LOGIC CONNECTIONS:..... DB-37P, SUB-D MULTI-PIN
- TEMP SENSOR:..... 10 mV/°C, 3.0V @25 °C
- SIZE:..... 4.25 X 3.50 X 1.00
- FINISH:..... PAINTED BLUE

ENVIRONMENTAL RATINGS:

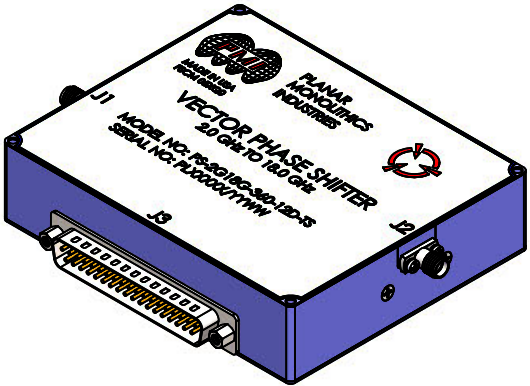
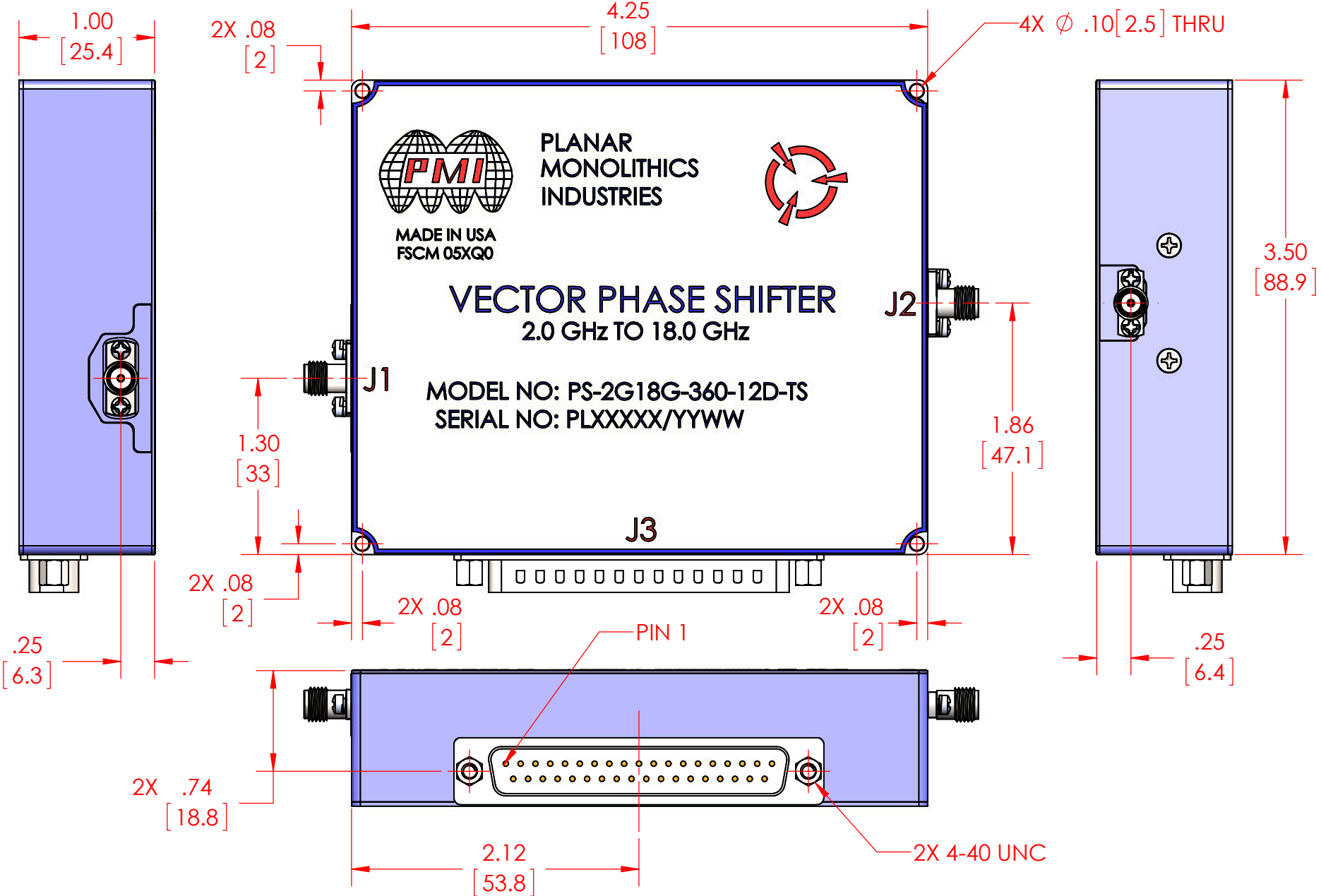
- TEMPERATURE:..... +10°C TO +50°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY:..... MIL-STD-202F, METHOD 103B COND. B
- SHOCK:..... MIL-STD-202F, METHOD 213B COND. B
- VIBRATION:..... MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE:..... MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202F, METHOD 107D COND. A

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

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

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	6/1/2018	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE				REV.	
DRAWN	M. HANKEN	6/1/2018	OUTLINE				A1	
REDRAWN			PS-2G18G-360-12D-TS					
ISSUED			SIZE	FSCM NO.	DWG NO.			
			B	05XQ0	27035120			
			SCALE	1:1			SHEET 1 OF 1	

PLANAR MONOLITHICS INDUSTRIES, INC.
7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: (301)-662-5019, FAX: (301)-662-1731
WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com
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