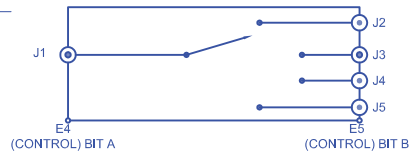


**DESCRIPTION**

A TWO BIT SINGLE POLE FOUR THROW, ABSORPTIVE, HERMETICALLY SEALED SWITCH DESIGNED TO OPERATE OVER THE 0.5 TO 18.0 GHz FREQUENCY RANGE. THIS MODEL IS DESIGNED TO MAINTAIN LOW INSERTION LOSS AND FAST SWITCHING SPEED.

**SPECIFICATIONS**

- FREQUENCY RANGE: \_\_\_\_\_ A-2 TO C+4
- INPUT POWER: \_\_\_\_\_ +20dBm MAX (OPERATING)
- VSWR (ON/OFF): \_\_\_\_\_ 2.0:1 MAX
- INSERTION LOSS: \_\_\_\_\_ 3.5dB MAX
- ISOLATION: \_\_\_\_\_ 60dB MIN AT MAXIMUM INSERTION LOSS STATE  
40dB MIN FROM RF PORTS TO CONTROL LOGIC PORTS
- SWITCHING SPEED: \_\_\_\_\_ 100ns MAX
- SWITCHING RATE: \_\_\_\_\_ DC TO 3 MEGACYCLES/SECOND
- DC VOLTAGE: \_\_\_\_\_ +5VDC, 150mA MAX, RIPPLE AND NOISE 60 mV. REGULATION ±1%  
-15VDC, 100mA MAX, RIPPLE AND NOISE 60 mV. REGULATION ±1%
- CONNECTORS \_\_\_\_\_ SMA FEMALE
- CONFIGURATION \_\_\_\_\_



- DIGITAL INTERFACE SIGNAL LEVELS LOGICAL "1" SET TO 3.3 VOLTS +0.5 VOLTS, MUST ABSORB 40 UA NOMINAL -0.9 VOLTS  
LOGICAL "0" SET TO 0.3 VOLTS ±0.3 VOLTS,  
1.6 NOMINAL WILL FLOW FROM UNIT LOAD TO THE DRIVER  
INTERFACE LINES MUST NEVER EXCEED +5.0 VOLTS OR -1.0 VOLTS  
IF INPUT CONTROL IS OPEN OR UNTERMINATED ASSUME LOGIC STATE "1"  
LOGIC LEVEL ACTIVE STATE ASSUMED "0" UNLESS SPECIFIED OTHERWISE
- SWITCHING CONTROL: \_\_\_\_\_ BINARY CODES (AB)  
00 Controls J1 - J2 10 Controls J1 - J4  
01 Controls J1 - J3 11 Controls J1 - J5
- MAINTAINABILITY \_\_\_\_\_ REPAIRABLE AT DEPOT OR LOWER MAINTENANCE LEVEL  
WITH NO DEGRADATION OF PERFORMANCE
- \_\_\_\_\_ HERMETICALLY SEALED

**ENVIRONMENTAL RATINGS**

- TEMPERATURE: \_\_\_\_\_ -54°C TO + 85°C (OPERATING), -54°C TO +95°C (BASEPLATE)  
-54°C TO +95°C (STORAGE)
- EXPLOSIVE CONDITIONS: \_\_\_\_\_ MIL-STD-810, METHOD 511.1
- HUMIDITY: \_\_\_\_\_ MIL-STD-202F, METHOD 103B COND. B
- VIBRATION: \_\_\_\_\_ MIL-STD-810, METHOD 514.2, Procedure 1A
- ALTITUDE: \_\_\_\_\_ MIL-STD-202F, METHOD 105C COND. C
- SALT ATMOSPHERE \_\_\_\_\_ MIL STD-810 Method 509.1
- ELECTROMAGNETIC INTERFERENCE \_\_\_\_\_ MIL STD-461A FOR CLASS A1 EQUIPMENT
- ACOUSTICAL NOISE \_\_\_\_\_ MIL-A-26669
- TOTAL OPERATING LIFE \_\_\_\_\_ MINIMUM OPERATING LIFE OF 100,000 HOURS WITH REASONABLE SERVICING AND REPLACEMENT OF PARTS.
- SHOCK: \_\_\_\_\_ SHOCK PER MIL-STD-810, METHOD 516.2, PROCEDURE I (NON-OPERATING).

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	11/16/18	

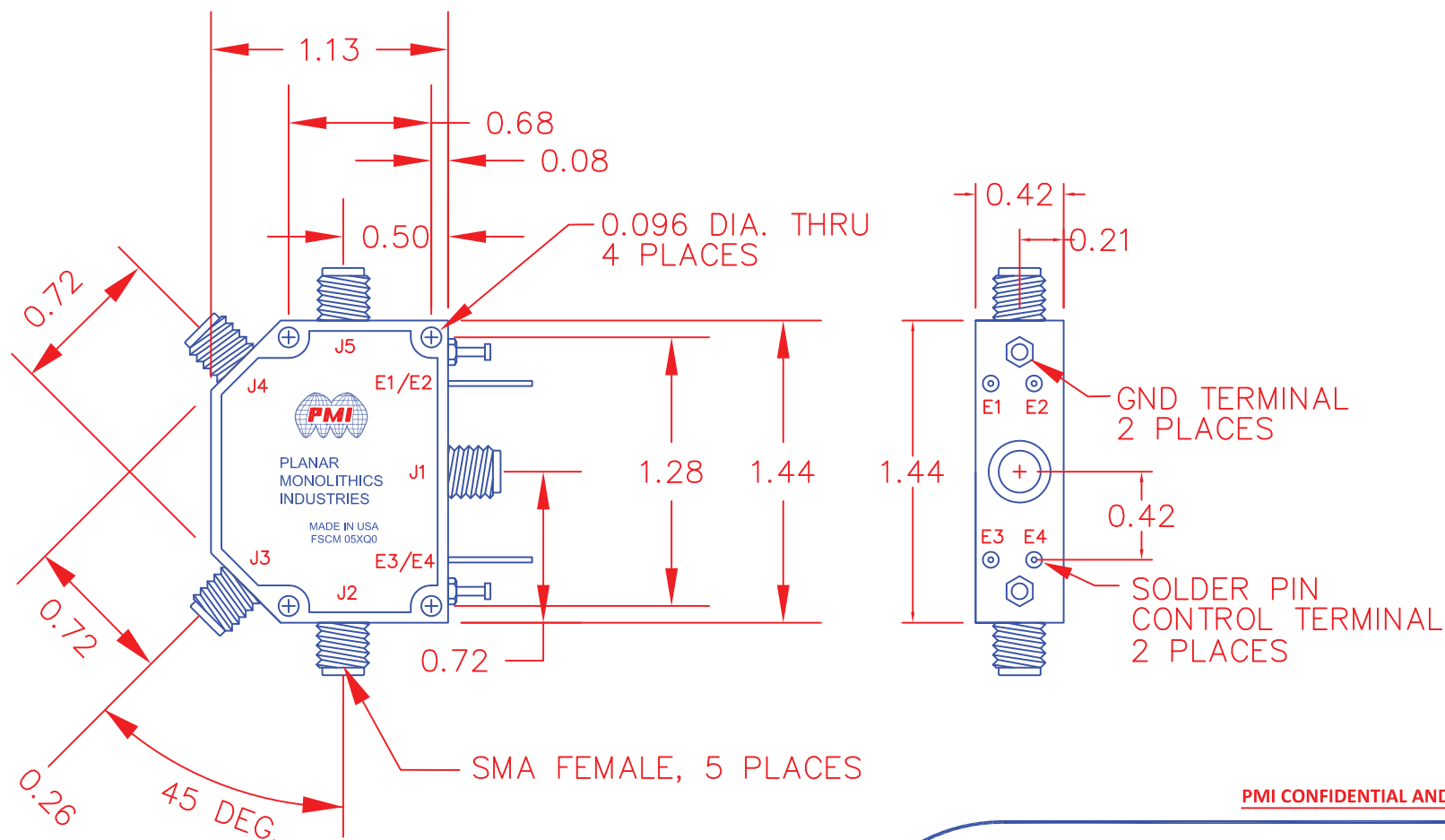
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

**PMI CONFIDENTIAL AND PROPRIETARY**

**PLANAR MONOLITHIC INDUSTRIES, INC.**  
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ISO 9001 CERTIFIED

APPROVALS		DATE	TITLE			REV.
DRAWN	<i>GJR</i>	11/11/15	PRODUCT FEATURE			
CHECKED			P4T-0R5G18G-60-T-SFF-HERM			
ISSUED			SIZE	FSCM NO.	DWG NO.	
			A	05XQ0	PRELIMINARY	A1
			SCALE	N:S	SHEET	1 OF 2

## MECHANICAL OUTLINE



**PMI CONFIDENTIAL AND PROPRIETARY**

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 ISO 9001:2000 CERTIFIED



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

APPROVALS		DATE	TITLE			
DRAWN GJR		11/19/18	PRODUCT FEATURE P4T-0R5G18G-60-SFF-HERM			
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REV. A1
ISSUED			SCALE N:S		SHEET 2 OF 2	