

## DESCRIPTION

PMI MODEL: P3T-2R9G3R4G-45-R-SFF IS A 2.9 TO 3.4 GHz, SP3T REFLECTIVE SWITCH CAPABLE OF SWITCHING WITHIN 100 ns MAXIMUM. THIS UNIT HAS A TYPICAL INSERTION LOSS OF 2.0 dB AND ISOLATION OF 45 dB MINIMUM WITH A VSWR OF 1.8:1.

## SPECIFICATIONS

- FREQUENCY: ----- 2.9 TO 3.4 GHz
- INSERTION LOSS: ----- 2.0 dB TYP, 2.2 dB MAX.
- ISOLATION: ----- 45 dB MIN
- VSWR: ----- 1.8:1
- LOGIC CONTROL: ----- TTL
- SWITCHING SPEED: ----- 100 ns MAX
- POWER HANDLING: ----- 10 W CW MIN, 57 dBm PEAK, 1 % DUTY CYCLE, PULSE WIDTH 10 us MAX.
- SUPPLY: ----- +5 V @ 85 mA TYP, -15 V @ 75 mA TYP.
- FINISH: ----- BLUE EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.

## LOGIC CONTROL TTL

L1	L2	L3	J0-J1	J0-J2	J0-J3
TTL LO	TTL HI	TTL HI	INSERTION LOSS	ISOLATION	ISOLATION
TTL HI	TTL LO	TTL HI	ISOLATION	INSERTION LOSS	ISOLATION
TTL HI	TTL HI	TTL LO	ISOLATION	ISOLATION	INSERTION LOSS

## ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -54 °C TO +95 °C (OPERATING)  
-65 °C TO +125 °C (STORAGE)
- HUMIDITY: ----- MIL-STD-202, METHOD 103B COND. B  
MAINTAIN RH 95±4% @ 63 °C (EXCEPTIVELY ALLOWED RF 85% WHEN TEMPERATURE-DOWN TRANSITION TIME.)  
THE RATE OF TEMPERATURE CHANGE:  
ABOVE 8 °C/HOURS
- SHOCK: ----- MIL-STD-202, METHOD 213, COND J  
20G (DURING OPERATION) & 125g, 6 ms SAW TOOTH TYPE, 3-AXIS (NO OPERATION)
- VIBRATION: ----- MIL-STD-202, METHOD 214, COND A  
12G 30 MIN, X,Y,Z-AXIS(DURING OPERATION) & 20g 30 MIN X, Y, Z-AXIS (DURING OPERATION)
- ALTITUDE: ----- MIL-STD-202, METHOD 105C, COND B  
200Km (8.47e-7 hPa or 6.353e-7 torr/DURING OPERATION)
- TEMPERATURE CYCLE: ----- MIL-STD-202, METHOD 107D COND. A

ALL DIMENSIONS ARE IN INCHES (mm)  
TOLERANCES:  
X,XX ±0.020  
X,XXX ±0.010

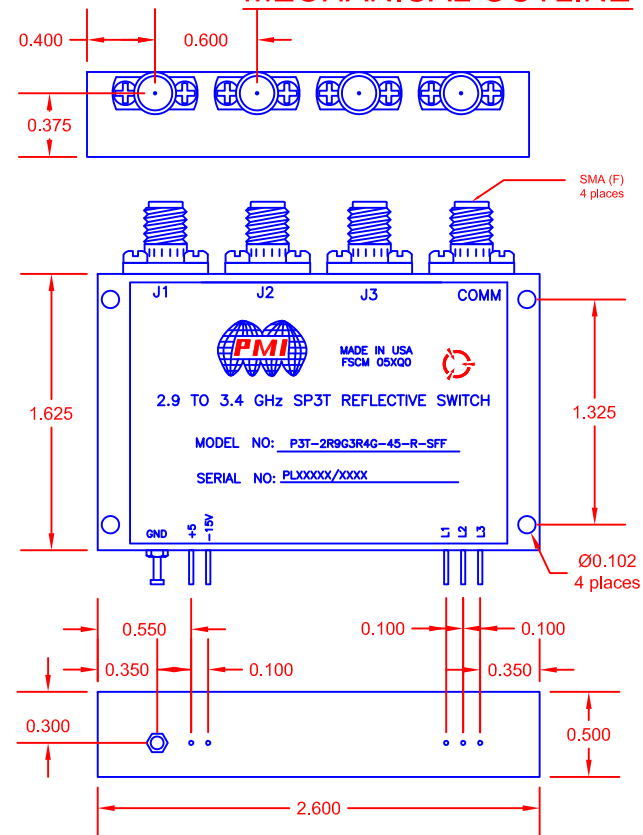
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

**PMI CONFIDENTIAL AND PROPRIETARY**

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	08/29/2016	

## MECHANICAL OUTLINE



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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			REV.
DRAWN <i>EMF</i>		08/29/2016	PRODUCT FEATURE			-
CHECKED			2.9 to 3.4 GHz, SP3T REFLECTIVE SWITCH			
ISSUED			P3T-2R9G3R4G-45-R-SFF			
SIZE	FSCM NO.	DWG NO.	PRELIMINARY			
A	05XQ0					
SCALE	N:S		SHEET		1 OF 1	