

DESCRIPTION

PMI MODEL: P3T-2G18G-70-T-GPO-5V IS AN ABSORPTIVE 1 WATT SINGLE POLE, THREE THROW SWITCH THAT OPERATES OVER THE 2.0 TO 18.0 GHz FREQUENCY RANGE. THIS MODEL OFFERS A MINIMUM OF 70 dB ISOLATION AND A MAXIMUM INSERTION LOSS OF 3.0 dB. THE COMPACT 1.00" x 1.00" x 0.40" HOUSING IS OUTFITTED WITH GPO CONNECTORS.

SPECIFICATIONS

- FREQUENCY RANGE: --- 2.0 TO 18.0 GHz
- INSERTION LOSS: ----- 3.0 dB MAXIMUM
- VSWR (ALL PORTS): --- 2.0:1 MAXIMUM
- ISOLATION: ----- 70 dB MINIMUM
- SWITCHING SPEED: --- 150 ns
- RF SURVIVAL POWER: -- 1 W MINIMUM (1 μ s, 0.1% DUTY CYCLE PULSE)
- DC POWER: ----- +5V @ 160 mA
-5V @ 85 mA
- CONTROL SIGNALS: --- TTL/CMOS COMPATIBLE. LOGIC 1 IS HIGH.
- CONTROL LOGIC: ----- INVERTING
- CONNECTORS: ----- RF: GPO FEMALE (3 PLACES)
GND/LOGIC/POWER: SOLDER PIN (6 PLACES)
- WEIGHT: ----- 30g [1.05 oz] TYPICAL
- SIZE: ----- 1.00" x 1.00" x 0.40" EXCLUDING CONNECTORS
- FINISH: ----- PAINTED BLUE

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -54 °C TO +85 °C (OPERATING)
-62 °C TO +86 °C (STORAGE)
- PRESSURE: ----- SHALL MEET ALL PERFORMANCE REQUIREMENTS WHEN OPERATING IN A DRY NITROGEN ATMOSPHERE AT PRESSURE OF 100 kPA OR AIR AT ATMOSPHERIC PRESSURE.
- SHOCK: ----- MIL-STD-901D
- VIBRATION: ----- MIL-STD-167-1, WITHOUT DEGRADATION IN PERFORMANCE FOR FREQUENCIES UP TO 25 Hz.
- SALT AND FOG: ----- MIL-STD-810, METHOD 509

SHOCK TABLE

SHORT DURATION	360 g, 1.6 ms, FULL SINE
MEDIUM DURATION	150 g, 6 ms, HALF SINE
LONG DURATION	130 g PEAK TO PEAK, 17 ms, FULL SINE 30 g PEAK TO PEAK, 40 ms, FULL SINE

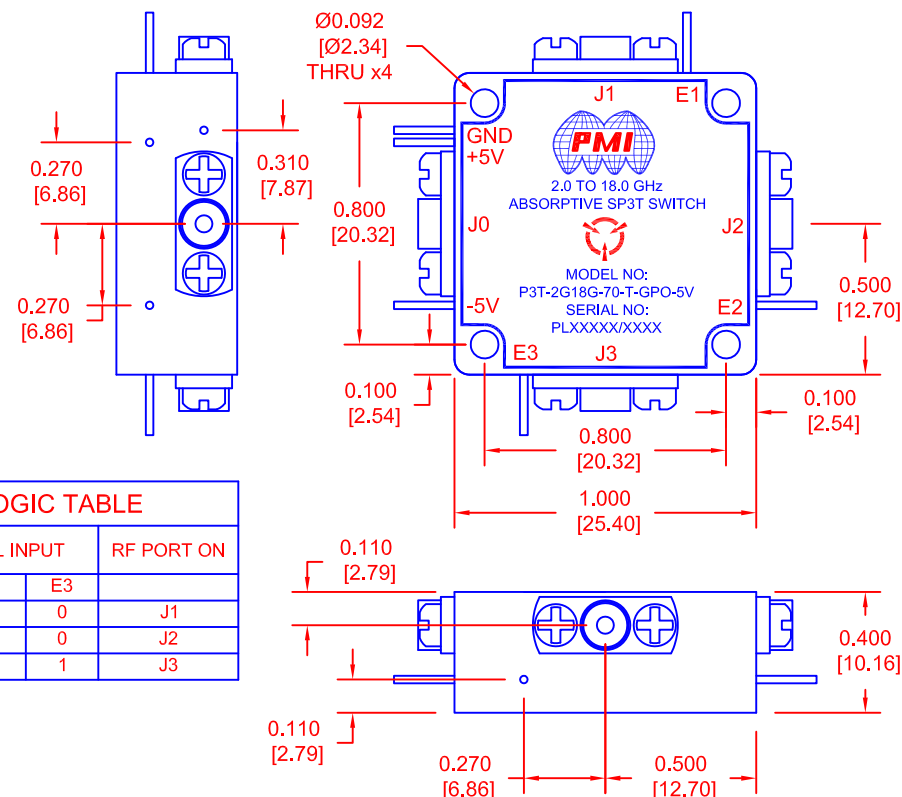
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

ALL DIMENSIONS
ARE IN mm [INCH]
TOLERANCES:
X.XX \pm 0.508 [0.020]
X.XXX \pm 0.254 [0.010]

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	10/11/17	

MECHANICAL OUTLINE



LOGIC TABLE

CONTROL INPUT			RF PORT ON
E1	E2	E3	
1	0	0	J1
0	1	0	J2
0	0	1	J3

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ISO 9001 CERTIFIED



		TITLE			
APPROVALS		DATE		PRODUCT FEATURE P3T-2G18G-70-T-GPO-5V	
DRAWN <i>M. Berry</i>		10/11/17		2.0 to 18.0 GHz Single Pole Three Throw Absorptive Switch	
CHECKED					
ISSUED					
		SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REV. -
		SCALE N:S			SHEET 1 OF 1