

## DESCRIPTION

PMI MODEL: P1T-6R5G18G-55-R-SFF IS A REFLECTIVE SINGLE POLE, SINGLE THROW SWITCH THAT OPERATES OVER THE 6.5 TO 18.0 GHz FREQUENCY RANGE. THIS MODEL OFFERS A MINIMUM OF 55 dB ISOLATION AND A MAXIMUM INSERTION LOSS OF 2.4 dB. THE COMPACT 0.90" x 0.70" x 0.38" HOUSING IS OUTFITTED WITH SMA FEMALE CONNECTORS.

## SPECIFICATIONS

- FREQUENCY RANGE: 6.5 TO 18.0 GHz
- INSERTION LOSS: 2.4 dB MAXIMUM
- ISOLATION: 55 dB MINIMUM
- VSWR (ON/OFF): 2.0:1 MAXIMUM
- RF SAFE INPUT POWER: +20 dBm CW MAXIMUM
- SWITCHING SPEED: 25 ns MAXIMUM (50% TTL TO 90% RF)  
10 ns MAXIMUM (10% RF TO 90% RF)
- CONTROL INPUT: TTL LEVEL, LOGIC "0" OR "1"  
LOGIC "0" (0 to +0.4V); J1-J2 LOW LOSS STATE  
LOGIC "1" (+2.4 to +5.5V); J1-J2 HIGH LOSS STATE
- POWER SUPPLY: +5V ± 5% @ 70 mA MAXIMUM  
-15V ± 5% @ 45 mA MAXIMUM
- CONNECTORS: RF: SMA FEMALE  
CONTROL: SOLDER PIN
- WEIGHT: 60g [2.1 oz] MAXIMUM
- SIZE: 22.86 mm x 17.78 mm x 9.65 mm  
[0.90" x 0.70" x 0.38"]  
EXCLUDING CONNECTORS
- FINISH: PAINTED BLUE

## ENVIRONMENTAL RATINGS

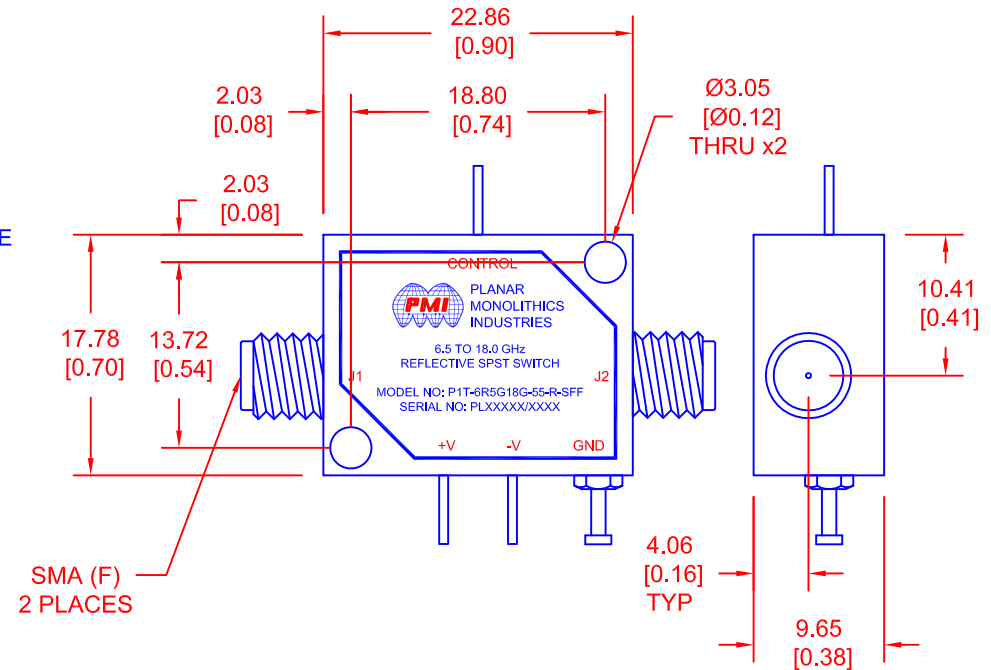
- TEMPERATURE: -30 °C TO +85 °C (OPERATING)  
-54 °C TO +85 °C (STORAGE)
- VIBRATION: 2 TO 16 Hz, 20 mm DOUBLE AMPLITUDE  
16 TO 2000 Hz, 10G
- SHOCK: 15G, 11±1 ms
- HUMIDITY: 100% RELATIVE HUMIDITY
- ALTITUDE: 0 TO 5,000 FT

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

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	11/20/17	

## MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>EMF</i>		11/20/17	PRODUCT FEATURE P1T-6R5G18G-55-R-SFF 6.5 to 18.0 GHz Single Pole Single Throw Reflective Switch		
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY
ISSUED			SCALE N:S	SHEET 1 OF 1	REV. -