

## DESCRIPTION

PMI MODEL: P6T-7G18G-55-R-SFF IS A REFLECTIVE SINGLE POLE, SIX THROW SWITCH THAT OPERATES OVER THE 7.0 TO 18.0 GHz FREQUENCY RANGE. THIS MODEL OFFERS A MINIMUM OF 55 dB ISOLATION AND A MAXIMUM INSERTION LOSS OF 4.2 dB. THE COMPACT 2.00" x 2.00" x 0.75" HOUSING IS OUTFITTED WITH SMA FEMALE CONNECTORS.

## SPECIFICATIONS

- FREQUENCY RANGE: 7.0 TO 18.0 GHz
- INSERTION LOSS: 4.2 dB MAXIMUM
- ISOLATION: 55 dB MINIMUM
- VSWR (ON/OFF): 2.2:1 MAXIMUM
- IMPEDANCE: 50  $\Omega$
- RF SAFE INPUT POWER: 100 mW CW MAXIMUM
- SWITCHING SPEED: 30 ns MAXIMUM (50% TTL TO 90% RF)  
15 ns MAXIMUM (10% RF TO 90% RF)
- CONTROL INPUT: TTL LEVEL, LOGIC "0" OR "1"  
LOGIC = "0" (0 TO +0.4V): LOW LOSS STATE  
LOGIC = "1" (+2.4 TO +5.5V): ISOLATION
- POWER SUPPLY: +5V  $\pm$  5% @ 200 mA MAXIMUM  
-15V  $\pm$  5% @ 200 mA MAXIMUM
- CONNECTORS: RF: SMA FEMALE  
LOGIC/POWER: SOLDER PIN
- WEIGHT: 75g [2.65 oz] MAXIMUM
- SIZE: 38.1 mm x 38.1 mm x 19.05 mm  
[1.50" x 1.50" x 0.75"]  
EXCLUDING CONNECTORS
- FINISH: PAINTED BLUE

## ENVIRONMENTAL RATINGS

- TEMPERATURE: -54 °C TO +85 °C (OPERATING)  
-62 °C TO +85 °C (STORAGE)
- VIBRATION: 0.1 INCH pp OR 10G, 5 TO 2000 Hz
- SHOCK: 15 G, 11 $\pm$ 1 ms
- HUMIDITY: 100% RELATIVE HUMIDITY
- ALTITUDE: 0 TO 50,000 FT

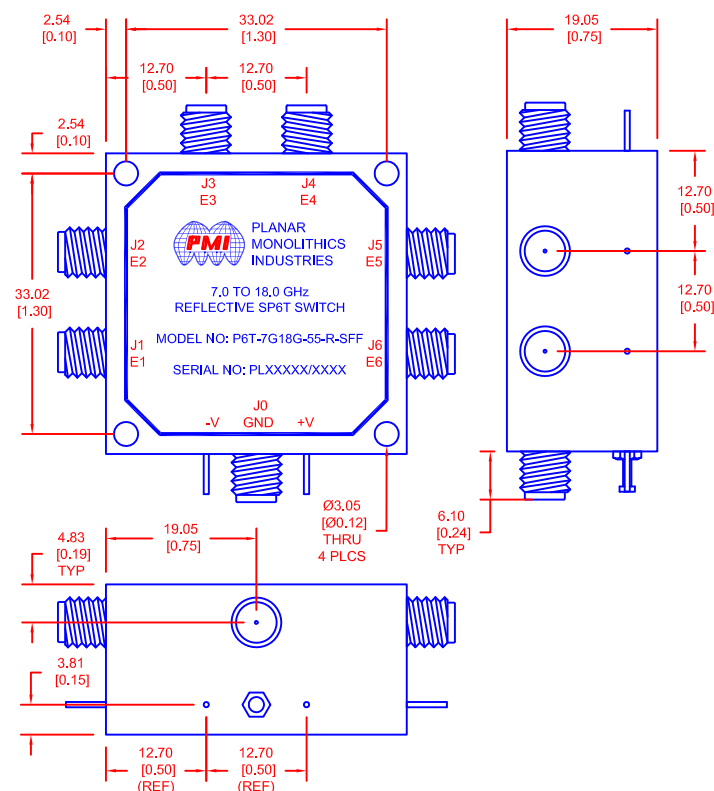
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	12/05/17	

## MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

## 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](http://www.pmi-rf.com), EMAIL: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)

ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN		11/20/17		PRODUCT FEATURE	
MODIFIED		12/05/17		P6T-7G18G-55-R-SFF	
ISSUED				7.0 to 18.0 GHz Single Pole Six Throw Reflective Switch	
SIZE		FSCM NO.		DWG NO.	
A		05XQ0		PRELIMINARY	
SCALE		N:S		SHEET	
				1 OF 1	