

## DESCRIPTION

PMI MODEL P2T-6G18G-40-R-570-TFF-120WCW IS A REFLECTIVE 50W CW HIGH-POWER COLD SWITCHING SINGLE POLE DOUBLE THROW SWITCH OPERATING IN THE 6-18 GHz FREQUENCY RANGE.

## SPECIFICATIONS

- FREQUENCY RANGE: 6-18 GHz
- POWER: 120 W CW (1.5 KW PEAK)
- INSERTION LOSS: 2.2dB MAX. AT BAND EDGES FOR 20% BANDWIDTH AND TYPICALLY 1.75 dB GOAL. FOR MID-BAND OF 80% OF THE BANDWIDTH 2.0 dB MAX., AND TYPICALLY 1.5dB GOAL.
- ISOLATION: 40dB
- PULSE WIDTH: 250 uSEC MAX.
- SWITCHING SPEED: 1.25 us MAX., 1.1 US TYP. (50% TTL TO 90% RF & 50% TTL TO 10% RF)
- VSWR IN/OUT: 2:1 MAX.
- LOAD VSWR: BETTER THAN 1.5:1
- DC VOLTAGE & CURRENT: +5V @ 300mA AND -70V @ 60mA
- CONTROL: SINGLE TTL (TTL "0" J1-J3 " LOW LOSS)
- CONNECTOR FOR RF PORT: TNC FEMALE
- CONNECTOR FOR CONTROL: 9 PIN MICRO D TYPE FEMALE, MATING WITH M83513/03A/03C (SEE CONNECTION TABLE BELOW)
- SIZE (NOT INCL. CONNECTORS: (L) 2.00" X (W) 2.00" X (H) 0.75"
- FINISH: PAINTED BLUE - NO PAINT ON MOUNTING SURFACE
- J4 CONNECTIONS

J4 PIN	CONNECT TO
1	U1 -70V
2	GROUND
3	U1 CONTROL
4	U1 +5V
5	U1 NC
6	U1 GROUND
7	U1 GROUND
8	U1 GROUND
9	U1 GROUND

## ENVIRONMENTAL RATINGS

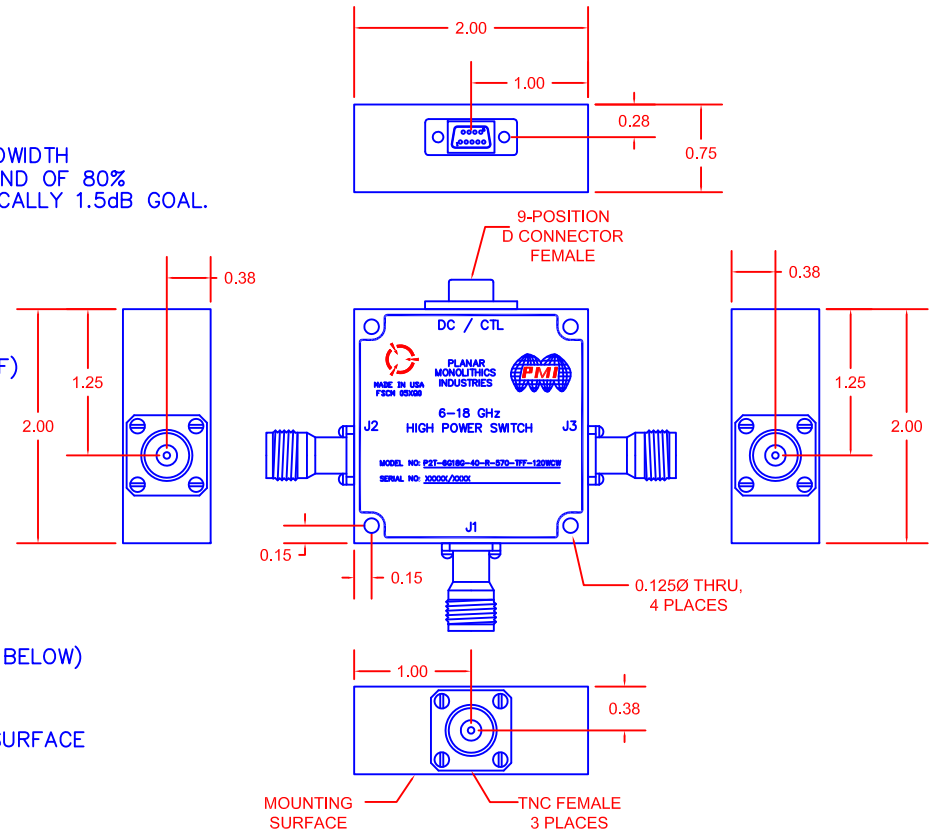
- TEMPERATURE: -40°C TO +85°C
- ENVIRONMENTAL MIL-STD-810E
- EMI/EMC MIL-STD-461

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

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	9/30/21	

## MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

## PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN	NJA	12/17/18	PRODUCT FEATURE		
REDRAWN	CW	1/21/20	P2T-6G18G-40-R-570-TFF-120WCW		
ISSUED			SIZE	FSCM NO.	DWG NO.
			A	05XQ0	27041820
			SCALE	N:S	SHEET 1 OF 1
					REV. A1