

## DESCRIPTION

PMI MODEL: P2T-6G18G-25-TFF-100W-TERM IS A TERMINATED 100-WATT HIGH POWER SINGLE POLE TWO THROW SWITCH OPERATING IN THE 6.0 TO 18.0 GHz FREQUENCY RANGE.

## SPECIFICATIONS

- FREQUENCY RANGE: ----- 6 TO 18 GHz
- INSERTION LOSS: ----- 2 dB GOAL  
2.6 dB MAX
- ISOLATION: ----- 25 dB MIN
- PHASE TRACKING: -----  $\pm 5^\circ$
- SWITCHING SPEED: ----- 1  $\mu$ s MAX
- POWER HANDLING: ----- 100 W CW MIN  
(TERMINATED SECTION WILL HANDLE  
10 WATTS CW MAXIMUM)
- MOUNTING TEMPERATURE: ----- 50° C. MOUNTING SURFACE TO BE FREE  
OF PAINT
- VSWR: ----- 2.0:1 MAX
- CONTROL: ----- 2 BIT TTL, 0 = ISOLATION, 1 = LOW LOSS
- BIAS: ----- +28 V, +5 V, -5 V
- CONNECTOR FOR RF PORT: ----- TNC FEMALE (J1 INPUT, J2 & J3 OUTPUT)
- CONNECTOR FOR CONTROL: ----- 9 PIN MICRO D TYPE FEMALE  
MATING WITH M83513/03A/03C
- SIZE (NOT INCLUDING CONNECTORS  
OR MOUNTING TABS): ----- 1.78" [L] x 0.60" [W] x 2.03" [H]
- FINISH: ----- GOLD PLATED

THIS UNIT IS NON-HERMETIC. THIS UNIT IS COLD SWITCHED, THEREFORE RF POWER IS NOT APPLIED DURING SWITCHING. ONE PATH OF THE SWITCH IS TO REMAIN "ON" AT ALL TIMES.

## ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -55 °C TO +85 °C (OPERATING)  
-65 °C TO +125 °C (STORAGE)
- HUMIDITY: ----- MIL-STD-202, METHOD 103B COND. B
- SHOCK: ----- MIL-STD-202, METHOD 213B COND. B
- VIBRATION: ----- MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: ----- MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: ----- MIL-STD-202, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

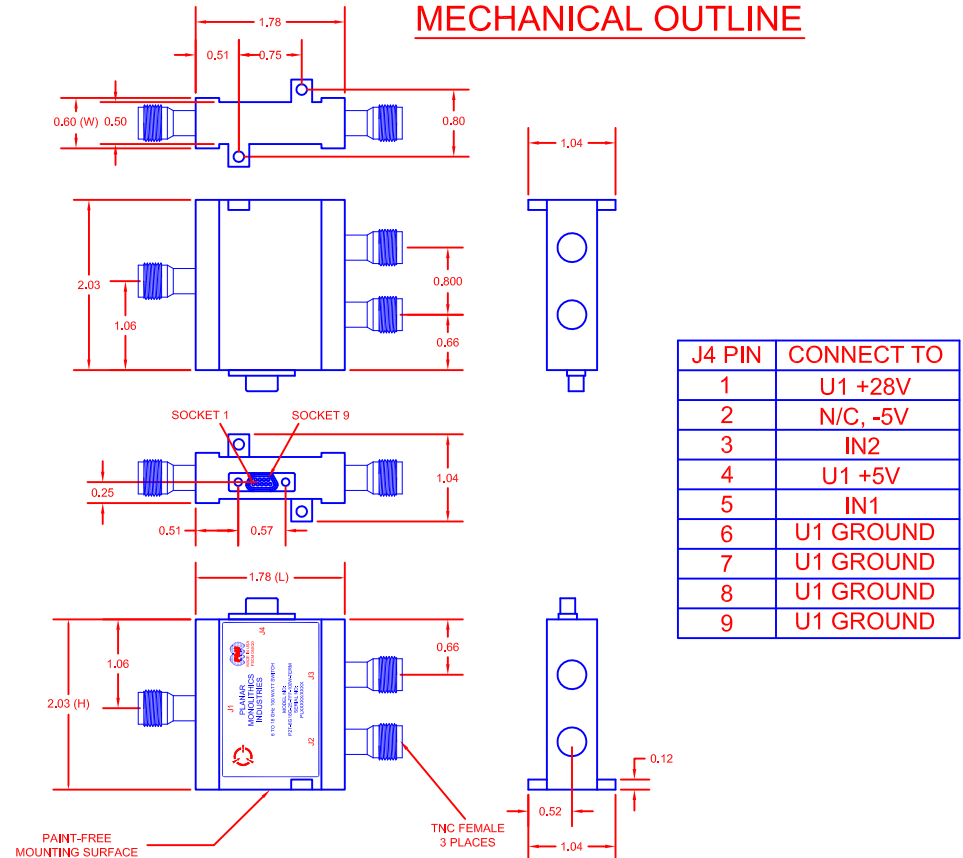
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

**PMI CONFIDENTIAL AND PROPRIETARY**

ALL DIMENSIONS  
ARE IN INCHES (mm)  
TOLERANCES:  
X.XX  $\pm 0.020$   
X.XXX  $\pm 0.010$

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	01/19/16	
	2	SPECIFICATION UPDATE	09/29/16	

## MECHANICAL OUTLINE



## 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			REV.
DRAWN <i>M. Berry</i>		09/29/16	PRODUCT FEATURE P2T-6G18G-25-TFF-100W-TERM			2
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27029191	
ISSUED			SCALE N:S		SHEET 1 OF 1	