

## DESCRIPTION

PMI MODEL P1T-500M18G-85-T-SFF IS AN ABSORPTIVE, HIGH SPEED, SINGLE POLE SINGLE THROW SWITCH CAPABLE OF SWITCHING WITHIN 25 ns TYPICALLY. THE FREQUENCY RANGE IS 500 MHz TO 18 GHz. THIS SWITCH HAS > 85 dB ISOLATION.

## SPECIFICATIONS

- FREQUENCY RANGE: \_\_\_\_\_ 500 MHz TO 18 GHz
- ISOLATION: \_\_\_\_\_ 85dB MIN
- INSERTION LOSS: \_\_\_\_\_ 5.0 dB TYP
- VSWR IN / OUT: \_\_\_\_\_ 2.5:1 TYP
- INPUT POWER: \_\_\_\_\_ +20 dBm CW MAX
- RF SWITCHING SPEED: \_\_\_\_\_ 25 ns TYP  
(10% TO 90% RF)
- DC VOLTAGE: \_\_\_\_\_ +5VDC, 20mA TYP  
\_\_\_\_\_ -5VDC, 70mA TYP
- CONTROL SIGNAL: \_\_\_\_\_ TTL COMPATIBLE  
"0" = INSERTION LOSS  
"1" = ISOLATION
- CONNECTORS IN/OUT: \_\_\_\_\_ SMA (F)
- SIZE: \_\_\_\_\_ (L) 1.0" X (W) 1.0" X (H) 0.5"
- FINISH: \_\_\_\_\_ BLUE EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.

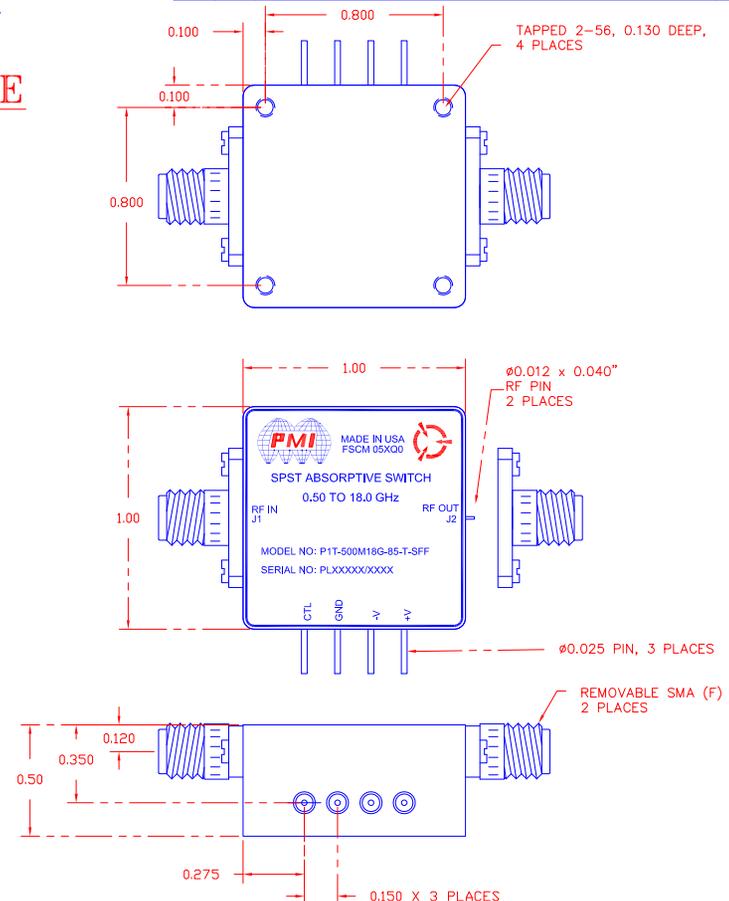
## ENVIRONMENTAL RATINGS

- TEMPERATURE: \_\_\_\_\_ -40°C TO +85°C (OPERATING)  
\_\_\_\_\_ -55°C TO +125°C (STORAGE)

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

## 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  
WEBSITE: [www.pmi-rf.com](http://www.pmi-rf.com)  
E-MAIL: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)  
ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN VR		09/09/14	PRODUCT FEATURE P1T-500M18G-85-T-SFF			
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27023866	REV. A2
ISSUED			SCALE N: S		SHEET 1 OF 1	

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	09/09/14	
	2	CURRENT UPDATE	12/02/14	
	A1	ECN #15-0054	05/14/15	
	A2	ECN #23-0045	08/03/23	