DESCRIPTION

PMI MODEL P2T-500M18G-80-T-515-SFF-4W-ST IS AN ABSORPTIVE, SINGLE POLE, TWO THROW PIN DIODE SWITCH THAT OPERATES OVER THE 0.5 GHZ TO 18 GHZ FREQUENCY RANGE. THIS MODEL INCORPORATES A TTL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.

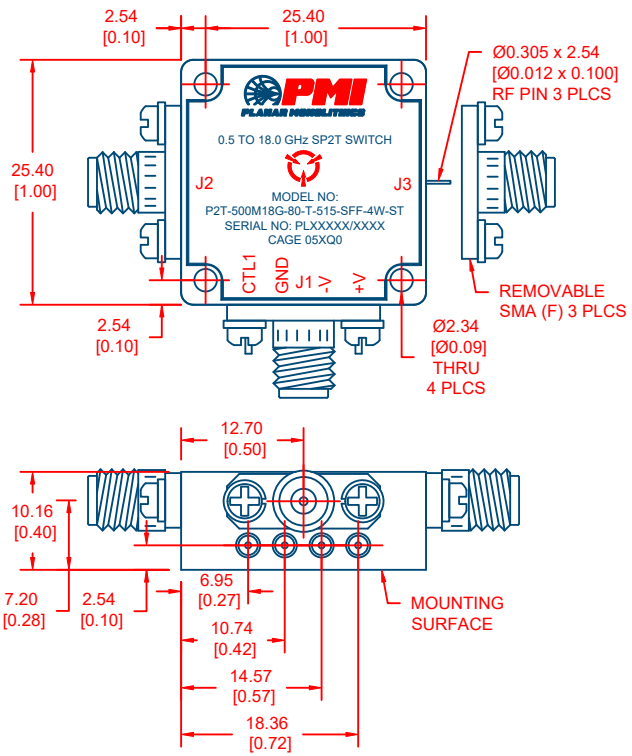
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	07/14/2016	
	A2	ECN # 17-0181	07/20/2017	
	B1	ECN # 24-0319	11/06/2024	

SPECIFICATIONS

- FREQUENCY RANGE: ---------- 0.5 TO 18 GHz
- ISOLATION: ---------- 70 dB MINIMUM
- INSERTION LOSS: ---------- 3.5 dB TYPICAL
- VSWR IN/OUT: ---------- 2.0:1 MAXIMUM
- INPUT POWER: ---------- 4 WATTS CW MAXIMUM
- INPUT PEAK POWER: ---------- 20 WATTS MAXIMUM, 50 ns PULSE WIDTH, 2 MHz PRF WITH A 10% DUTY CYCLE
- SWITCHING SPEED: ---------- 60 ns MAXIMUM
- DC VOLTAGE: ---------- +5 V @ 150 mA
-15 V @ 150 mA
- CONTROL SIGNAL: ---------- TTL LOGIC
SEE LOGIC TABLE
- CONNECTORS: ---------- RF: SMA FEMALE
CONTROL: SOLDER PINS
- SIZE: ---------- 25.40 mm x 25.40 mm x 10.16 mm
1.00" x 1.00" x 0.40"
EXCLUDING CONNECTORS
- FINISH: ---------- PAINTED BLUE - MOUNTING SURFACE FREE OF PAINT

LOGIC TABLE	
CTL1	FUNCTION
1	J1 - J2
0	J1 - J3

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

ENVIRONMENTAL RATINGS

- TEMPERATURE: ---------- -40 °C TO +85 °C (OPERATING)
-55 °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

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

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PMI PLANAR MONOLITHICS

APPROVALS	DATE
DRAWN M.Berry	07/14/16
REDRAWN	
ISSUED	

TITLE
PRODUCT FEATURE
P2T-500M18G-80-T-515-SFF-4W-ST

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	27030241	B1

SCALE N:S SHEET 1 OF 1