

DESCRIPTION

PMI MODEL P2T-300M18G-70-T-512-SFF IS AN ABSORPTIVE, SINGLE POLE, TWO THROW PIN DIODE SWITCH THAT OPERATES OVER THE 0.3 GHZ TO 18 GHZ FREQUENCY RANGE. THIS MODEL INCORPORATES A DUAL DIFFERENTIAL LINE RECEIVER COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.

SPECIFICATIONS

- FREQUENCY RANGE:.....0.3 TO 18 GHZ
- ISOLATION:.....70dB MIN
- INSERTION LOSS:.....3.5dB MAX
- VSWR IN / OUT:.....2.0:1 MAX, 1.6:1 TYP.
- POWER HANDLING:.....+20 dBm CW MAX
- PHASE MATCHED:.....+/-5 DEG. TYP., +/-8 DEG. MAX. (SETS OF 4 UNITS)
- SWITCHING SPEED:.....100ns MAX.
- DC VOLTAGE:.....+5.2VDC +/-0.5V @ 70 mA MAX
-12VDC +/-0.5V @ 30 mA MAX
- CONTROL SIGNAL:.....DUAL DIFFERENTIAL LINE
SEE LOGIC TABLE
- CONNECTORS IN/OUT:.....SMA FEMALE CONNECTORS
- CONTROL CONNECTORS:.....SOLDER PINS
- FINISH:.....BLUE EPOXY PAINT
- SIZE:.....1.2" X 1.38" X 0.5"

CONTROL LOGIC			
Logic Level	Volt (V)		Switch Status
0	(R+) - (R-) < -0.2		J1-J2
1	(R+) - (R-) < +0.2		J1-J3

TRUTH TABLE		
Difference Driver	Signal	Status
0		J1-J2
1		J1-J3

ENVIRONMENTAL RATINGS

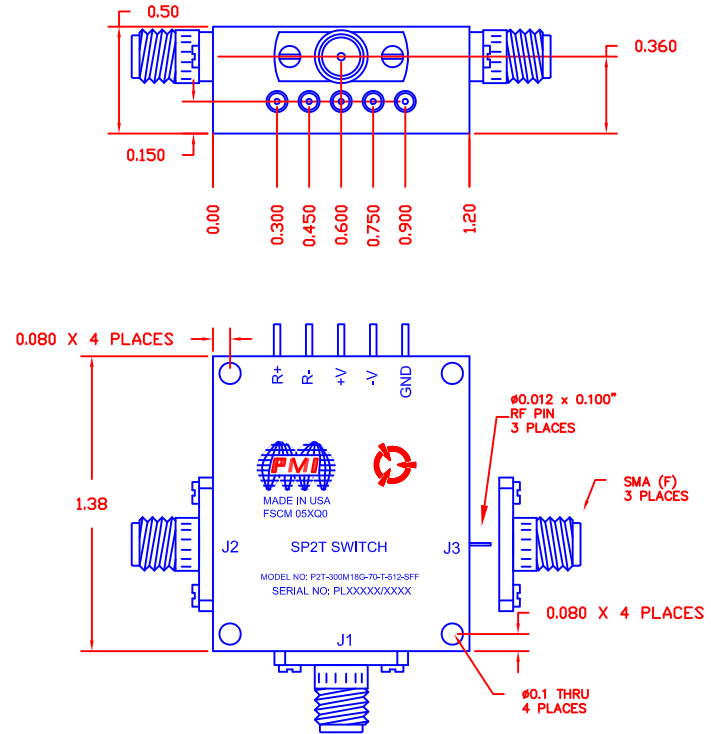
- TEMPERATURE:.....-40°C TO +85°C (OPERATING)
-50°C TO +100°C (STORAGE)
- HUMIDITY:.....MIL-STD-202F, METHOD 103B COND. B
- SHOCK:.....MIL-STD-202F, METHOD 213B COND. B
- VIBRATION:.....MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE:.....MIL-STD-202F, METHOD 105C COND. B
- SALT FOG:.....MIL-STD-202F, METHOD 107D COND. A
- FUNGUS:.....MIL-STD-810C, METHOD 508.2
- TEMPERATURE CYCLE:.....MIL-STD-202F, METHOD 107

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
	1	PRELIMINARY	8/5/15	J. PALACIO

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE			
DRAWN S. Palacio		3/5/15	PRODUCT FEATURE P2T-300M18G-70-T-512-SFF			
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REV. 1
ISSUED			SCALE N: S	SHEET 1 OF 1		