

DESCRIPTION

PMI MODEL NUMBER SWN-2181-TRA IS A PIN DIODE TRANSFER SWITCH THAT OPERATES OVER THE 0.5 GHZ TO 18 GHZ FREQUENCY RANGE. THIS MODEL INCORPORATES A TTL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.

SPECIFICATIONS

- FREQUENCY RANGE:.....0.5 TO 18 GHz
- ISOLATION:.....60 dB MIN
- INSERTION LOSS:3.5 dB MAX
- VSWR IN / OUT:2:1 MAX,
- INPUT POWER:.....+10 dBm CW MAX
- SURVIVAL POWER:1W CW, 10 W PEAK 1 usec
- RF SWITCHING SPEED:RISE: 15nS MAX
FALL: 15nS MAX
DELAY ON: 100nS MAX
DELAY OFF: 100nS MAX
- DC VOLTAGE:.....+5 V @ 100 mA NOMINAL
-5 V @ 100 mA NOMINAL
- CONTROL SIGNAL:TTL LOGIC – SEE TABLE
- CONNECTORS IN/OUT:2.92 mm FEMALE CONNECTORS
- CONTROL CONNECTORS:SOLDER PINS
- FINISH:PAINTED GRAY

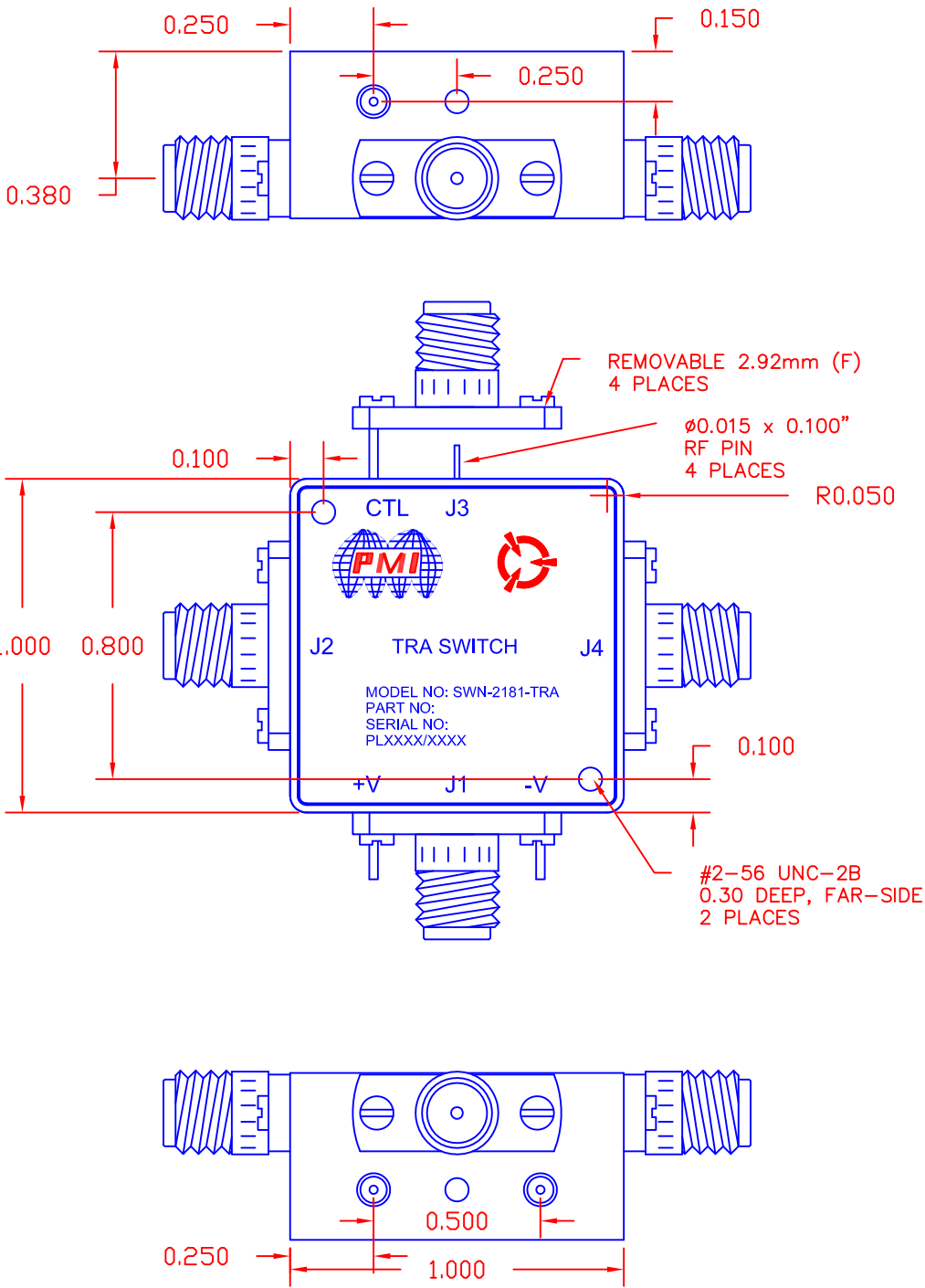
ENVIRONMENTAL RATINGS

- TEMPERATURE:.....-55°C TO +85°C (OPERATING)
-55°C TO +125°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

TTL LOGIC	INSERTION LOSS	ISOLATION
"0"	J1 – J2 J3 – J4	J1 – J4 J2 – J3
"1"	J1 – J4 J2 – J3	J1 – J2 J3 – J4

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .01 ± 0.010 ±		PART NO.		APPROVALS		DATE		TITLE		SIZE		FSGM NO.		DWG NO.		REV.	
MATERIAL:		DRAWN		PJK		4/20/10		OUTLINE DRAWING		B				27012601		A	
FINISH:		CHECKED						SCALE N/S									
NEXT ASSY		USED ON		ISSUED													
APPLICATION		DO NOT SCALE DRAWING															



PLANAR MONOLITHICS INDUSTRIES
FREDERICK, MARYLAND

OUTLINE DRAWING
SWN-2181-TRA

SCALE N/S SHEET 1 OF 1