

DESCRIPTION:

PMI MODEL P2T-500M18G-80-T-55-SFF-IND IS AN ABSOPTIVE, 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.

SPECIFICATIONS:

- FREQUENCY RANGE: 0.5 TO 18.0 GHz
- ISOLATION: 80 dB MINIMUM
- INSERTION LOSS: 3.5 dB TYPICAL, 4 dB MAXIMUM
- VSWR: 2.0:1 MAX
- INPUT POWER: 1 WATTS CW MAX
- SWITCHING SPEED: 200 ns MAXIMUM
- SUPPLY: +5 V @ 150 mA
-5 V @ 150 mA
- CONTROL SIGNAL: TTL LOGIC (SEE LOGIC TABLE)
- CONNECTORS IN/OUT: SMA FEMALE CONNECTORS
- CONTROL CONNECTORS: SOLDER PINS
- FINISH: BLUE PAINTED

LOGIC TABLE		
CTL1	CTL2	FUNCTION
0	0	*J2 & J3 ON
0	1	J1-J2
1	0	J1-J3
1	1	ALL OFF

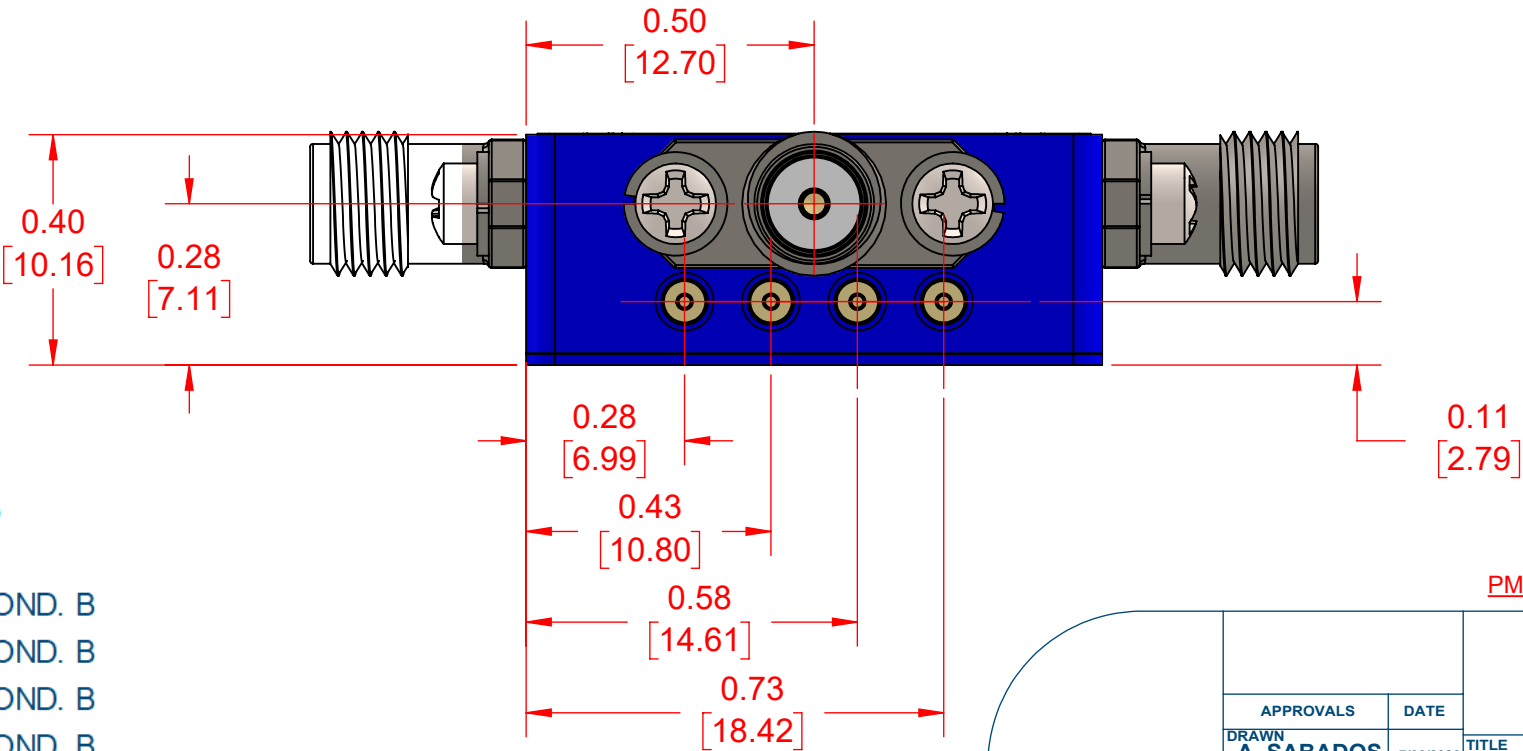
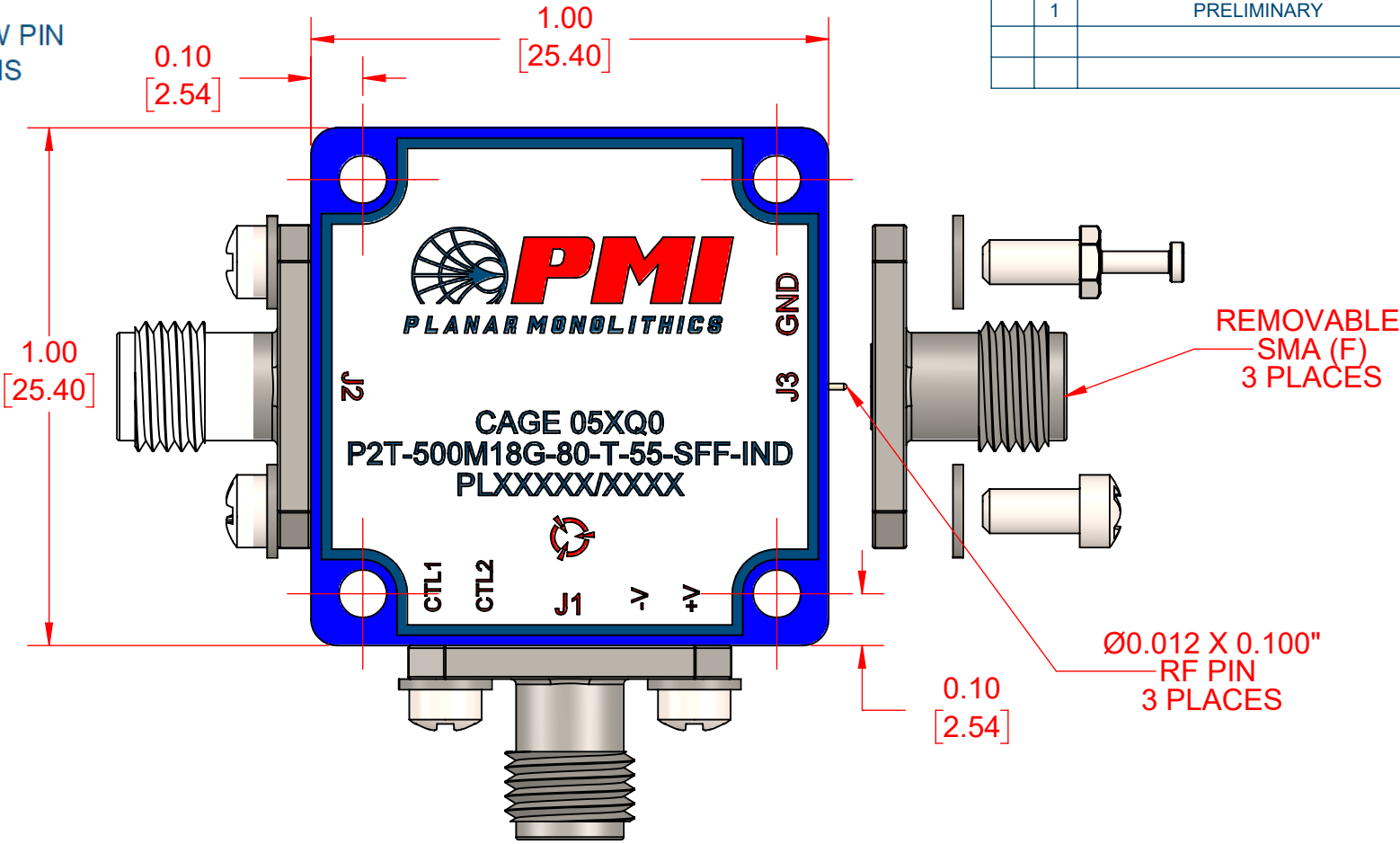
*NOT TO SPECIFIED VALUES

ENVIRONMENTAL RATINGS:

- TEMPERATURE: -40°C TO +85°C (OPERATING)
-55°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202, METHOD 103 COND. B
- SHOCK: MIL-STD-202, METHOD 213 COND. B
- VIBRATION: MIL-STD-202, METHOD 204 COND. B
- ALTITUDE: MIL-STD-202, METHOD 105 COND. B
- TEMPERATURE CYCLE: MIL-STD-202, METHOD 107 COND. A

NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	PRELIMINARY	7/30/2026	



PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE			
DRAWN	A. SABADOS	7/30/2026	PRODUCT FEATURE			
REDRAWN			P2T-500M18G-80-T-55-SFF-IND			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			B	05XQ0	PRELIMINARY	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± ± .XXX ± 0.01 ±			SCALE 2:1		SHEET 1 OF 1	