

DESCRIPTION:

PMI MODEL NUMBER P1T-500M18G-80-R-SFF-SW21841A-515 IS A REFLECTIVE, HIGH SPEED, SINGLE POLE SINGLE THROW SWITCH OPERATING OVER THE FREQUENCY RANGE OF 0.5 TO 18 GHz AND MEETING THE FOLLOWING SPECIFICATIONS.

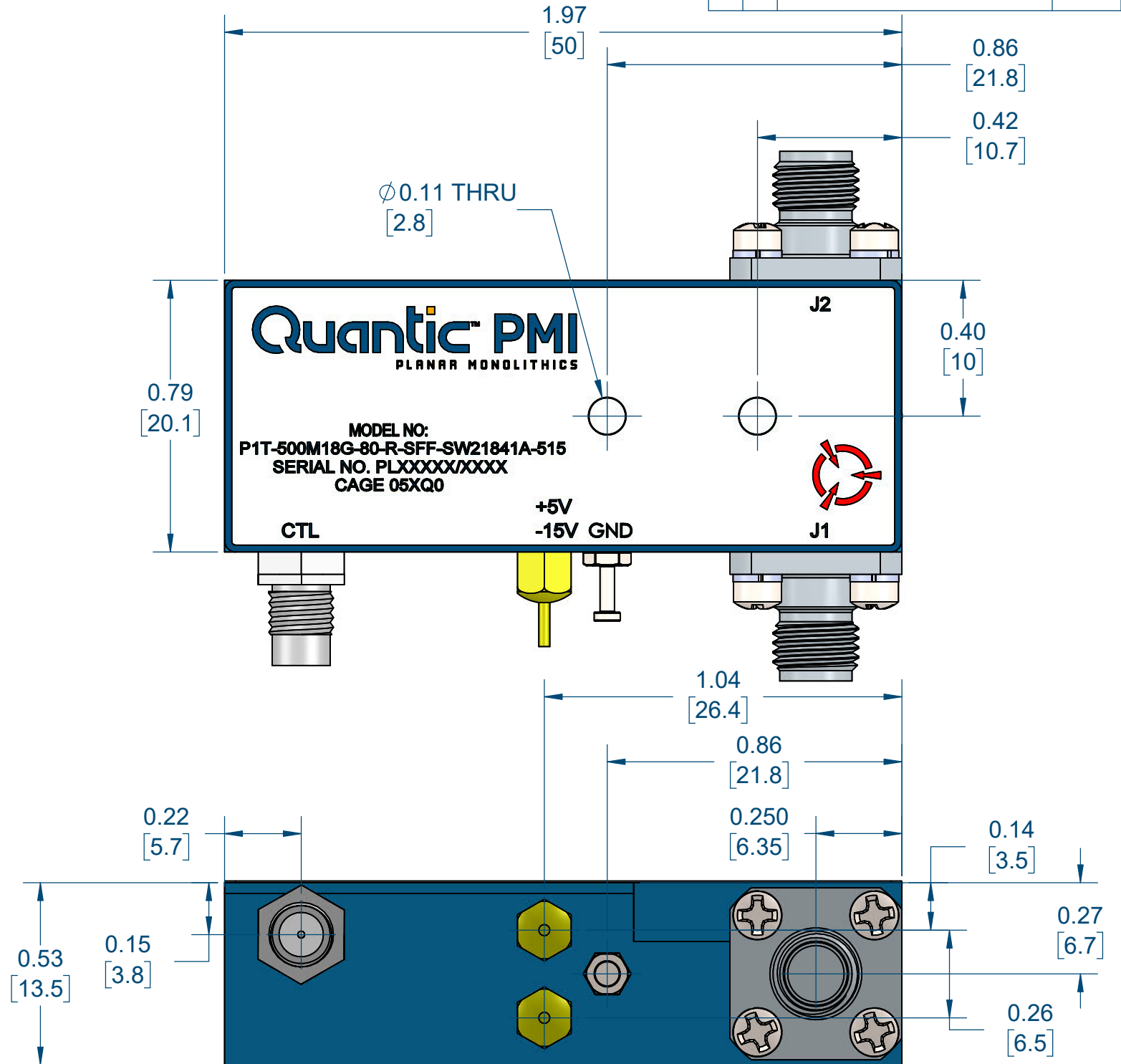
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	6/16/2025	

SPECIFICATIONS:

- FREQUENCY RANGE:..... 500 MHz TO 18.0 GHz
- INSERTION LOSS:..... 1.0 dB MAX (0.5 to 2.0 GHz)
1.2 dB MAX (2.0 to 4.0 GHz)
1.5 dB MAX (4.0 to 8.0 GHz)
2.0 dB MAX (8.0 to 12.4 GHz)
2.5 dB MAX (12.4 to 18.0 GHz)
- ISOLATION:..... 80 dB MIN
- VSWR:..... 1.4:1 MAX (0.5 TO 4.0 GHz) "ON POSITION"
1.6:1 MAX (4.0 TO 8.0 GHz) "ON POSITION"
1.9:1 MAX (8.0 TO 18.0 GHz) "ON POSITION"
- INPUT POWER:..... 2 W AVG, 10 W PEAK @ 1usec PW
- RISE/FALL TIME:..... 2 ns MAX
(10% TO 90% RF & 90% TO 10% RF)
- DELAY ON/OFF:..... 20 ns MAX
(50% TO 10% / 90% RF)
- DC VOLTAGE:..... +5 VDC, 100 mA MAX
-15 VDC, 45 mA MAX
- CONTROL:..... TTL COMPATIBLE
"0" = ISOLATION
"1" = INSERTION LOSS
- CONTROL CONNECTOR:..... SMC MALE
- CONNECTORS:..... SMA FEMALE
- FINISH:..... PAINTED BLUE

ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -55°C TO +85°C (OPERATING)
-65°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 TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS DRAWN M.LAULIS REDRAWN ISSUED		DATE		Quantic PMI PLANAR MONOLITHICS 7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 662-5019, FAX: (301) 662-1731 WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED	
		6/16/2025			
TITLE OUTLINE P1T-500M18G-80-R-SFF-SW21841A-515				SIZE B	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01		FSCM NO. 05XQ0		DWG NO. 27052160	
SCALE 2:1				REV. A1	
				SHEET 1 OF 1	