

DESCRIPTION:

PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER P2T-500M18G-30-R-SFF IS A REFLECTIVE SINGLE POLE, TWO THROW SWITCH THAT OPERATES FROM 500 MHz TO 18.0 GHz WHICH HANDLES +23 dBm CW INPUT POWER. THE PORT TO PORT ISOLATION IS 30 dB MINIMUM. THIS MODEL HAS LOW INSERTION LOSS WHILE STILL OFFERING A FAST SWITCHING SPEED OF 100 ns MAXIMUM.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	12/16/2021	
	B1	ECN # 22-0046	1/25/23	

SPECIFICATIONS:

- FREQUENCY :..... 500 MHz TO 18.0 GHz
- INSERTION LOSS:..... 1.5 dB TYP, 1.6 dB MAX
- ISOLATION:..... 30 dB MIN
- VSWR:..... 2.0:1 MAX
- INPUT POWER:..... +23 dBm MAX
- SWITCHING SPEED:..... 100 ns MAX
- CONTROL (2 LINE):..... TTL LOGIC "0" = INSERTION LOSS
TTL LOGIC "1" = ISOLATION
- DC VOLTAGE:..... 80 mA @ +5 VDC TYP.
80 mA @ -12 VDC TYP.
- CONNECTORS:..... SMA FEMALE
- POWER AND CONTROL:..... SOLDER PINS
- SIZE:..... 1.00" X 1.00" X 0.50"(H)
- WEIGHT:..... 1.5 OZ TYP.
- FINISH:..... PAINTED BLUE

LOGIC TABLE		
CTL1	CTL2	FUNCTION
0	0	*INSERTION LOSS (ALL ON)
0	1	J1-J2
1	0	J1-J3
1	1	ISOLATION (ALL OFF)

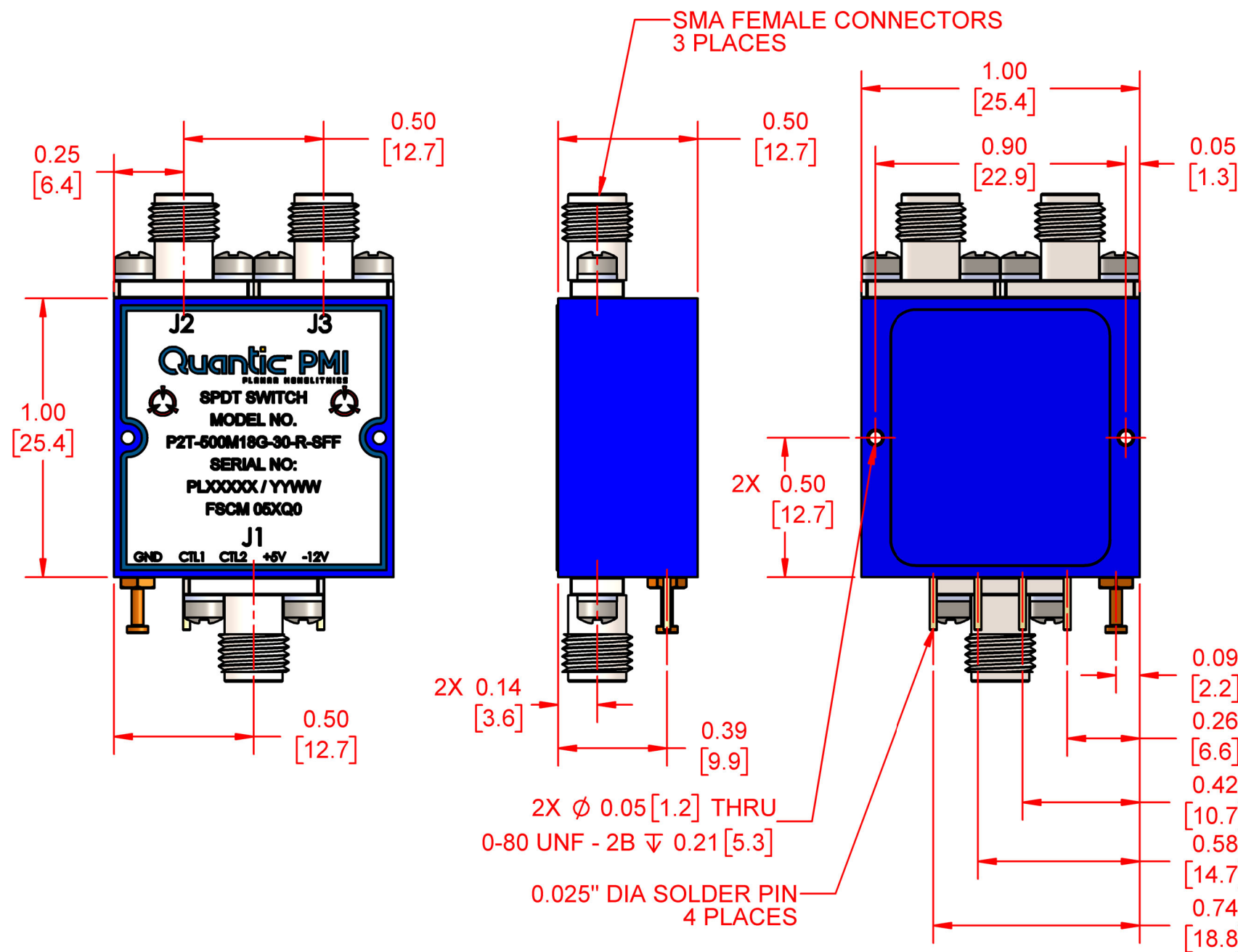
*NOT TO SPECIFIED VALUES

ENVIRONMENTAL RATINGS:


- TEMPERATURE:..... -45°C TO +90°C (OPERATING)
-54°C TO +125°C (STORAGE)
- HUMIDITY:..... MIL-STD-202F, METHOD 103B COND. B
- SHOCK:..... MIL-STD-202F, METHOD 213B COND. C
- VIBRATION:..... MIL-STD-202F, METHOD 204D COND. B
- SALT FOG:..... MIL-STD-202F, METHOD 101D-EST COND. B
- THERMAL SHOCK:..... MIL-STD-202F, METHOD 107D COND. A
- FUNGUS:..... MIL-STD-810F, METHOD 508.5
- EMI / EMC:..... MIL-STD-461E

NOTE: ENVIROMENTAL TESTING AND ESS WILL BE MET, BUT ACTUAL TESTING IS NOT DONE BY PMI
ACTUAL SCREENING IS AVAILABLE FOR AN ADDITIONAL CHARGE.

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION



PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	 PLANAR MONOLITHICS INDUSTRIES, INC. 7311-F GROVE ROAD FREDERICK, MARYLAND 21704 USA TEL: (301)-862-5019; FAX: (301)-862-1731 WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com ISO 9001 CERTIFIED	
DRAWN M. HANKEN		12/16/2021	TITLE OUTLINE	
REISSUED			P2T-500M18G-30-R-SFF	
ISSUED			SIZE B	REV. B1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± ± .XXX ± 0.01			FSCM NO. 05XQ0	DWG NO. 27042940
SCALE 2:1			SHEET 1 OF 1	