

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	8/29/2022	
	B1	ECN # 22-0172	12/27/2022	

DESCRIPTION:

PMI MODEL P2T-100M56G-100-T-185MM IS AN ABSORPTIVE, SINGLE POLE TWO THROW PIN DIODE SWITCH THAT OPERATES OVER THE 100 MHz TO 56 GHz FREQUENCY RANGE. IT FEATURES LOW INSERTION LOSS AND HIGH ISOLATION IN A SLIMLINE PACKAGE. THIS MODEL ALSO INCORPORATES A TTL COMPATIBLE DRIVER FOR EASE OF SYSTEM INTEGRATION.

SPECIFICATIONS:

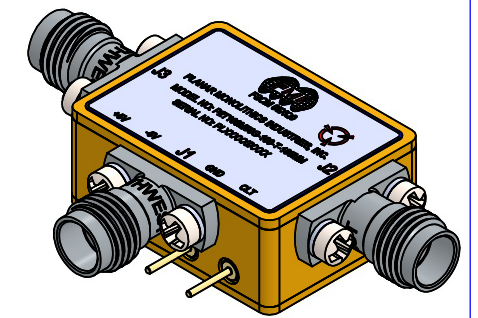
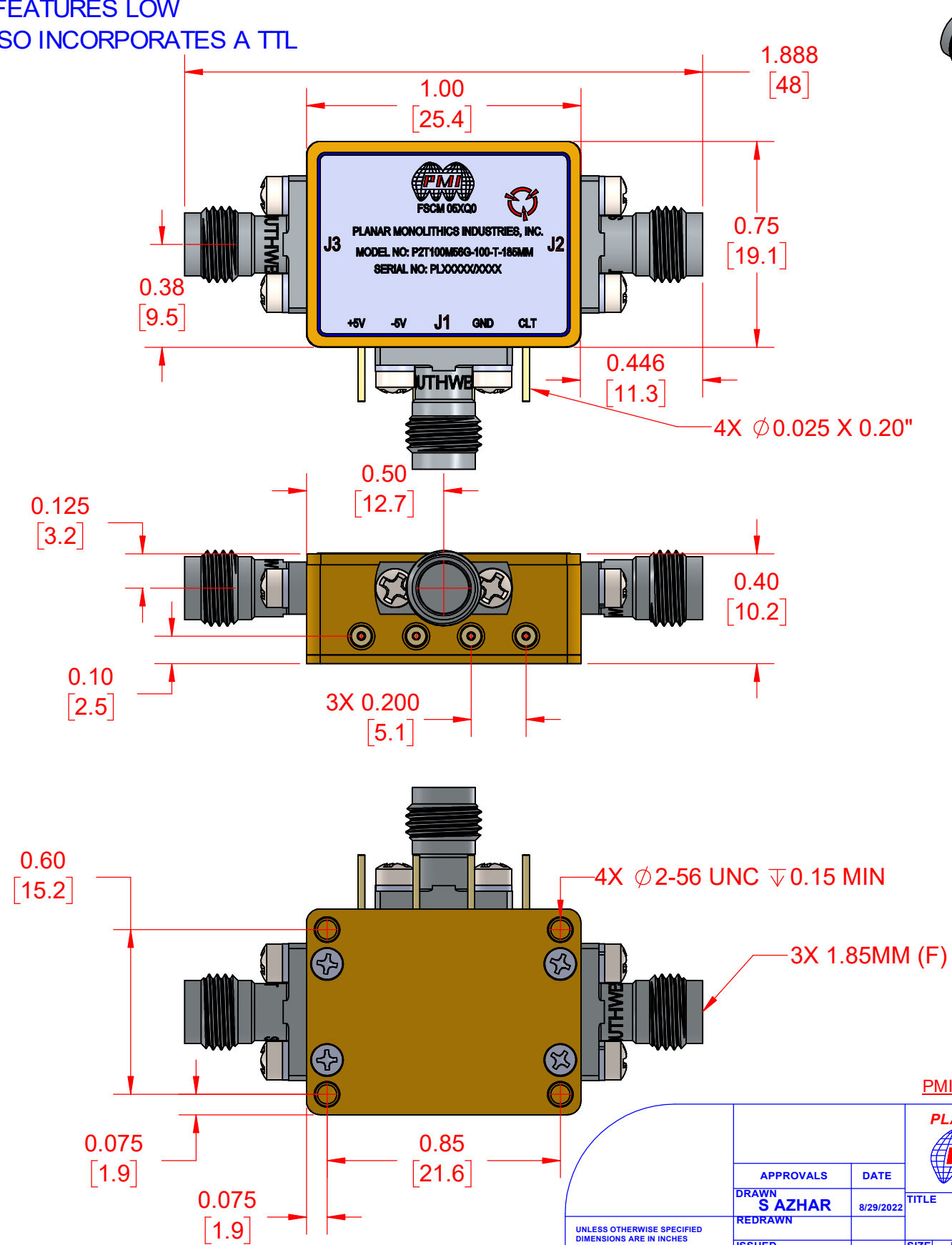
- FREQUENCY RANGE:..... 0.1 MHz to 56 GHz
- INSERTION LOSS:..... 4.0 dB (0.1 TO 18 GHz) MAX
7.0 dB (18 TO 40 GHz) MAX
13.0 dB (40 TO 52 GHz) MAX
15.0 dB (52 TO 56 GHz) MAX
- VSWR:..... 2.5:1 (0.1 TO 18 GHz) MAX
3.0:1 (18 TO 40 GHz) MAX
3.2:1 (40 TO 56 GHz) MAX
- ISOLATION:..... 90 dB (0.1 TO 1 GHz) MIN
90 dB (1 TO 18 GHz) MIN
75 dB (18 TO 40 GHz) MIN
70 dB (40 TO 52 GHz) MIN
65 dB (52 TO 56 GHz) MIN
- INPUT POWER:..... 23 dBm CW MAX
- SWITCHING SPEED:..... 50 ns MAX
- CONTROL SIGNAL:..... TTL LOGIC "0" = J1-J2 ON
TTL LOGIC "1" = J1-J3 ON
- DC VOLTAGE:..... +5 V @ 100 mA MAX
-5 V @ 100 mA MAX
- CONNECTORS:..... 1.85 mm FEMALE
- SIZE:..... 1.0" X 0.75" X 0.4"
- FINISH:..... GOLD PLATED

ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -40°C TO +85°C (OPERATING)
-65°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

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

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.



APPROVALS	DATE
DRAWN S AZHAR	8/29/2022
REDRAWN	
ISSUED	

TITLE			
OUTLINE			
P2T-100M56G-100-T-185MM			
SIZE	FSCM NO.	DWG NO.	REV.
B	05XQ0	27044700	B1
SCALE 4:1			SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± .XX ± 0.02 ±
XXX ± 0.01