

DESCRIPTION:

PMI MODEL P5T-500M40G-60-T-55-292FF-OPT250M IS A SP5T, ABSORPTIVE SINGLE POLE, FIVE THROW PIN DIODE SWITCH THAT OPERATES OVER THE 0.25 GHz TO 40 GHz FREQUENCY RANGE. THIS SWITCH HAS AN INSERTION LOSS OF 6.0 dB, ISOLATION OF 70 dB AND IS SUPPLIED IN A SMALL HOUSING MEASURING 1.35" DIAMETER X 0.40" THICK.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	12/9/2024	
	B1	ECN #25-0216	7/22/2025	

SPECIFICATIONS:

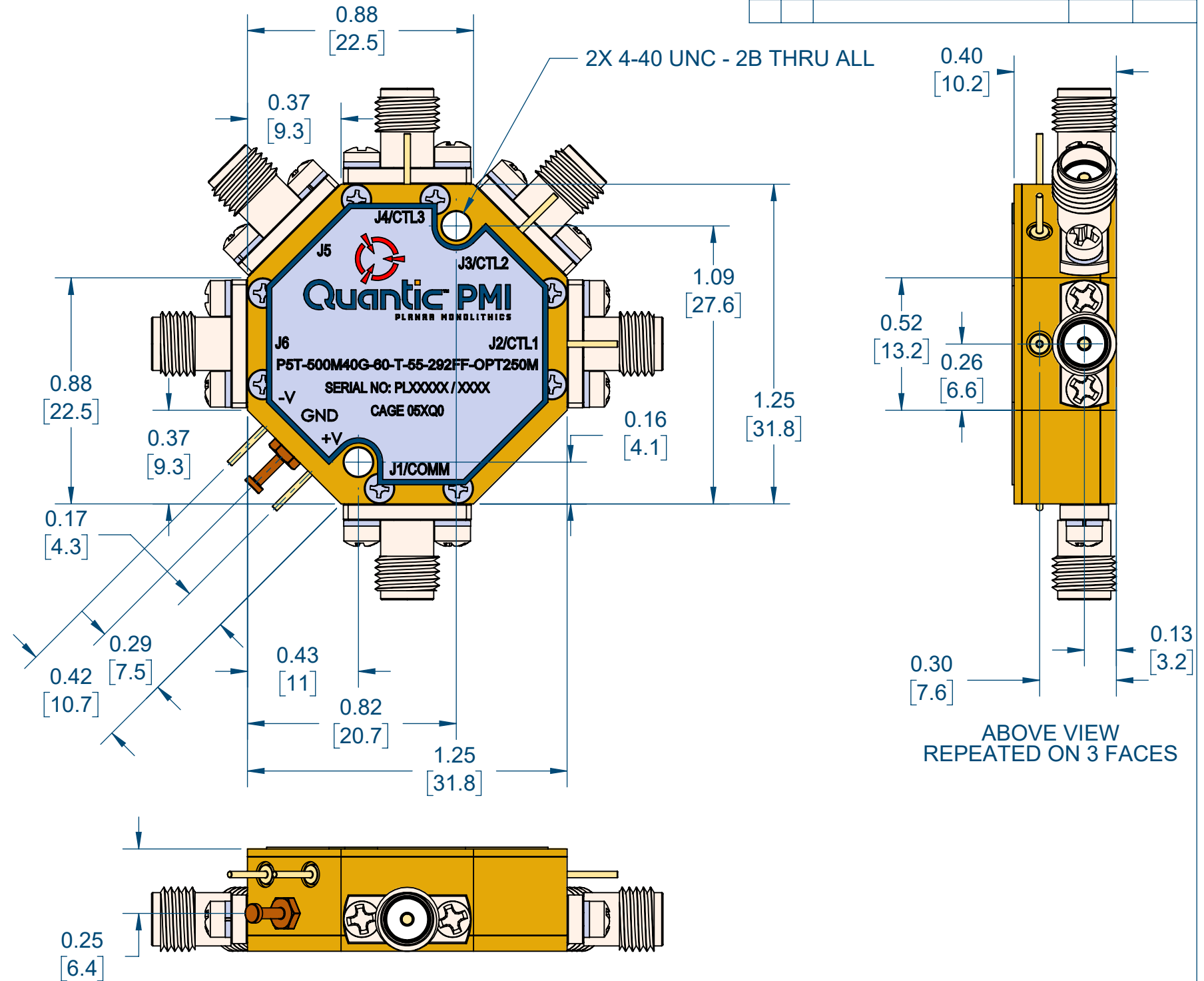
- FREQUENCY RANGE:..... 0.25 GHz TO 40 GHz
- ISOLATION:..... 70 dB MIN
- INSERTION LOSS:..... 6.0 dB MAX
- VSWR:..... 2.5:1 MAX
- RF SWITCHING SPEED:..... 100 ns MAX
- DC VOLTAGE:..... +5 V @ 300 mA TYP
-5 V @ 100 mA TYP
- INPUT POWER:..... +25 dBm CW MAX
+23 dBm MAX (HOT SWITCHING)
- CONTROL SIGNAL:..... TTL LOGIC
SEE LOGIC TABLE
- CONNECTORS IN/OUT:..... 2.92 mm FEMALE CONNECTORS
- CONTROL CONNECTORS:.. SOLDER PINS
- SIZE:..... 1.35" DIAMETER X 0.40" THICK
- FINISH:..... GOLD PLATED

CTL1	CTL2	CTL3	J1-J2	J1-J3	J1-J4	J1-J5	J1-J6
0	0	0	LOSS	ISO.	ISO.	ISO.	ISO.
0	0	1	ISO.	LOSS	ISO.	ISO.	ISO.
0	1	0	ISO.	ISO.	LOSS	ISO.	ISO.
0	1	1	ISO.	ISO.	ISO.	LOSS	ISO.
1	0	0	ISO.	ISO.	ISO.	ISO.	LOSS

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
- ALTITUDE:..... MIL-STD-202, METHOD 105C COND. B
- VIBRATION:..... MIL-STD-202, METHOD 204D COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202, METHOD 107D COND. A

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



PMI CONFIDENTIAL AND PROPRIETARY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		PART NO.		Quantic PMI PLANAR MONOLITHICS	
FRACTIONS	DECIMALS	APPROVALS	DATE	7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 862-5019, FAX: (301) 662-1731 WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED	
±	.XX ± 0.010 .XXX ± 0.005		12/9/2024	TITLE OUTLINE	
MATERIAL:		DRAWN S LANGE		P5T-500M40G-60-T-55-292FF-OPT250M	
FINISH:		REDRAWN		SIZE B	FSCM NO. 05XQ0
NEXT ASSY	USED ON	ISSUED		DWG NO. 27050220	REV. B1
APPLICATION				SCALE 2:1	SHEET 1 OF 1