

**DESCRIPTION:**

PMI MODEL P3T-250M40G-60-T-55-292FF IS AN ABSORPTIVE, SINGLE POLE, THREE THROW PIN DIODE SWITCH CAPABLE OF SWITCHING WITHIN 50 ns. THIS SWITCH OPERATES OVER THE 250 MHz TO 40 GHz FREQUENCY RANGE WITH OVER 60 dB OF ISOLATION.

**SPECIFICATIONS:**

- FREQUENCY RANGE:..... 250 MHz TO 40 GHz
- ISOLATION:..... 60 dB MIN
- INSERTION LOSS:..... 7.0 dB MAX
- VSWR IN/OUT:..... 2.0:1 TYP
- INPUT POWER:..... +25 dBm CW (UP TO 18 GHz) MAX  
+23 dBm CW (18 TO 40 GHz) MAX  
+20 dBm HOT SWITCHING
- SURVIVAL POWER:..... 1W PEAK
- RF SWITCHING SPEED:..... 50 ns TYP  
RISE TIME: 15 ns TYP  
FALL TIME: 15 ns TYP  
DELAY ON: 50 ns TYP  
DELAY OFF: 50 ns TYP
- DC VOLTAGE:..... +5 V @ 200 mA TYP  
-5 V @ 100 mA TYP
- CONTROL SIGNAL:..... 2-BIT DECODED TTL LOGIC  
SEE LOGIC TABLE
- CONNECTORS IN/OUT:..... 2.92 mm FEMALE CONNECTORS
- CONTROL CONNECTORS:..... SOLDER PINS
- SIZE:..... 1.0" X 1.0" X 0.5"
- FINISH:..... PAINTED BLUE

CTL 1	CTL 0	J1-J2	J1-J3	J1-J4
0	0	ON	OFF	OFF
0	1	OFF	ON	OFF
1	0	OFF	OFF	ON
1	1	OFF	OFF	OFF

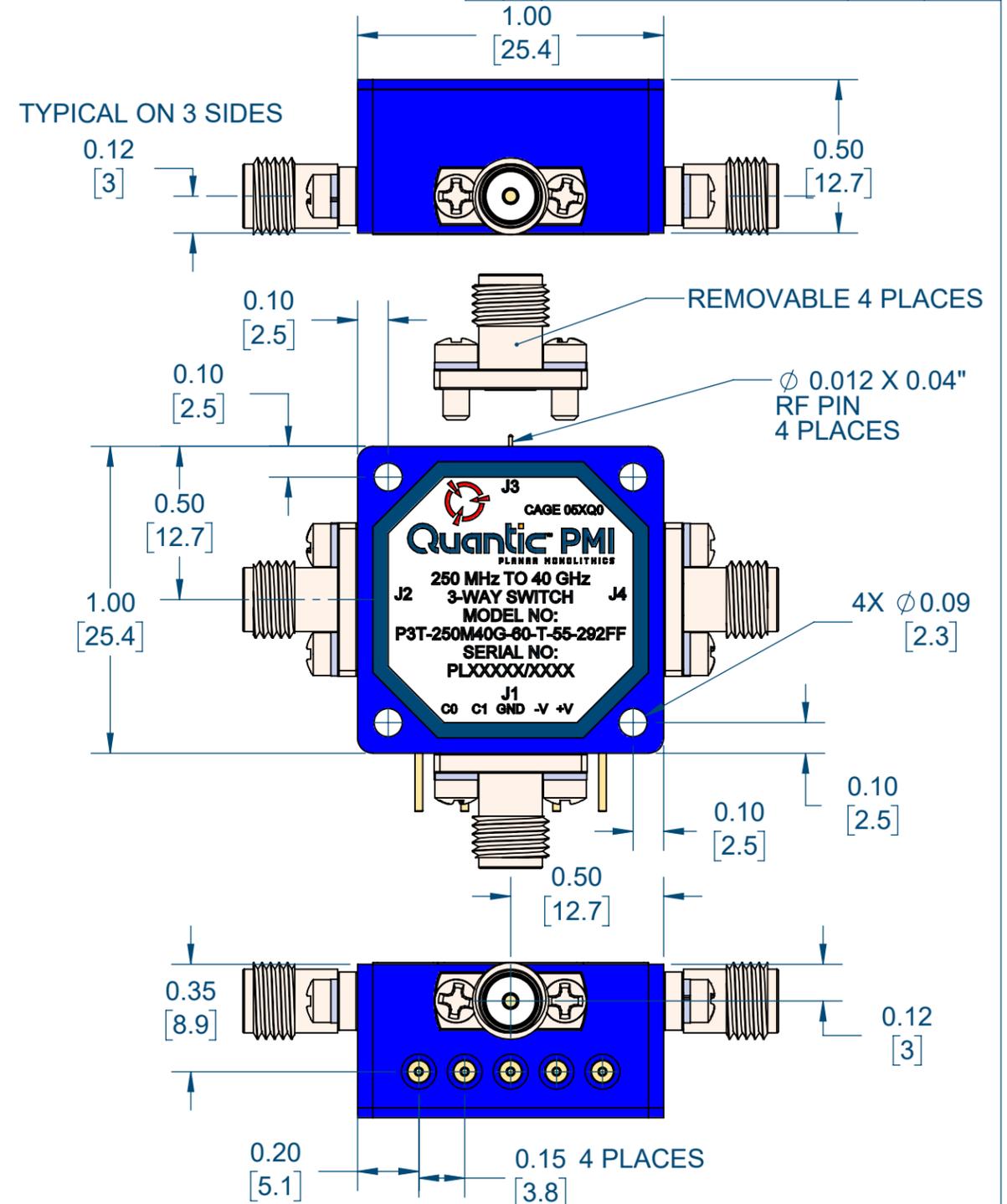
**ENVIRONMENTAL RATINGS:**

- TEMPERATURE:..... -40°C TO +85°C (OPERATING)  
-55°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 OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

**MECHANICAL OUTLINE**

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	01/28/25	



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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		PART NO.		APPROVALS		DATE	
FRACTIONS	DECIMALS	ANGLES					
±	.XX ± 0.010	±					
	.XXX ± 0.005						
MATERIAL:		DRAWN		S LANGE		1/28/2025	
FINISH:		REISSUED		REDRAWN			
NEXT ASSY		USED ON		ISSUED			
APPLICATION							
TITLE				OUTLINE			
P3T-250M40G-60-T-55-292FF							
SIZE	FSCM NO.	DWG NO.	REV.				
B	05XQ0	27050940	A1				
SCALE 2:1				SHEET 1 OF 1			



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