

# DESCRIPTION

PMI MODEL P20T-4G8G-80-T-515-SFF-HERM IS AN ABSORPTIVE, SINGLE POLE, TWENTY THROW PIN DIODE SWITCH THAT OPERATES OVER THE 4.0 GHz TO 8.0 GHz FREQUENCY RANGE. THIS MODEL INCORPORATES A TTL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.

# SPECIFICATIONS

- FREQUENCY RANGE: ----- 4.0 TO 8.0 GHz
- ISOLATION: ----- 80 dB MIN
- INSERTION LOSS: ----- 4.0 dB MAX
- VSWR IN / OUT: ----- 2.0:1 MAX, 1.8:1 TYP
- INPUT POWER (OPERATING): ----- 100 mW MAX CW (HOT SWITCHABLE)
- RF SWITCHING SPEED: ----- 2 μs MAX (50% TTL TO 90% RF)  
2 μs MAX (10% RF TO 90% RF)
- DC VOLTAGE: ----- +5 VDC (±5%) @ 300 mA MAX  
+15 VDC (±2%) @ 200 mA MAX
- CONTROL SIGNAL: ----- TTL LOGIC - 5 BIT DECODED  
SEE LOGIC TABLE
- CONNECTORS INPUT: ----- SMA FEMALE CONNECTORS
- DC AND CONTROL CONNECTORS: ----- SOLDER PINS
- FINISH: ----- MOUNTING SURFACE FREE OF PAINT  
BLUE PAINTED
- PACKAGE: ----- HERMETIC
- WEIGHT: ----- 500 g MAX

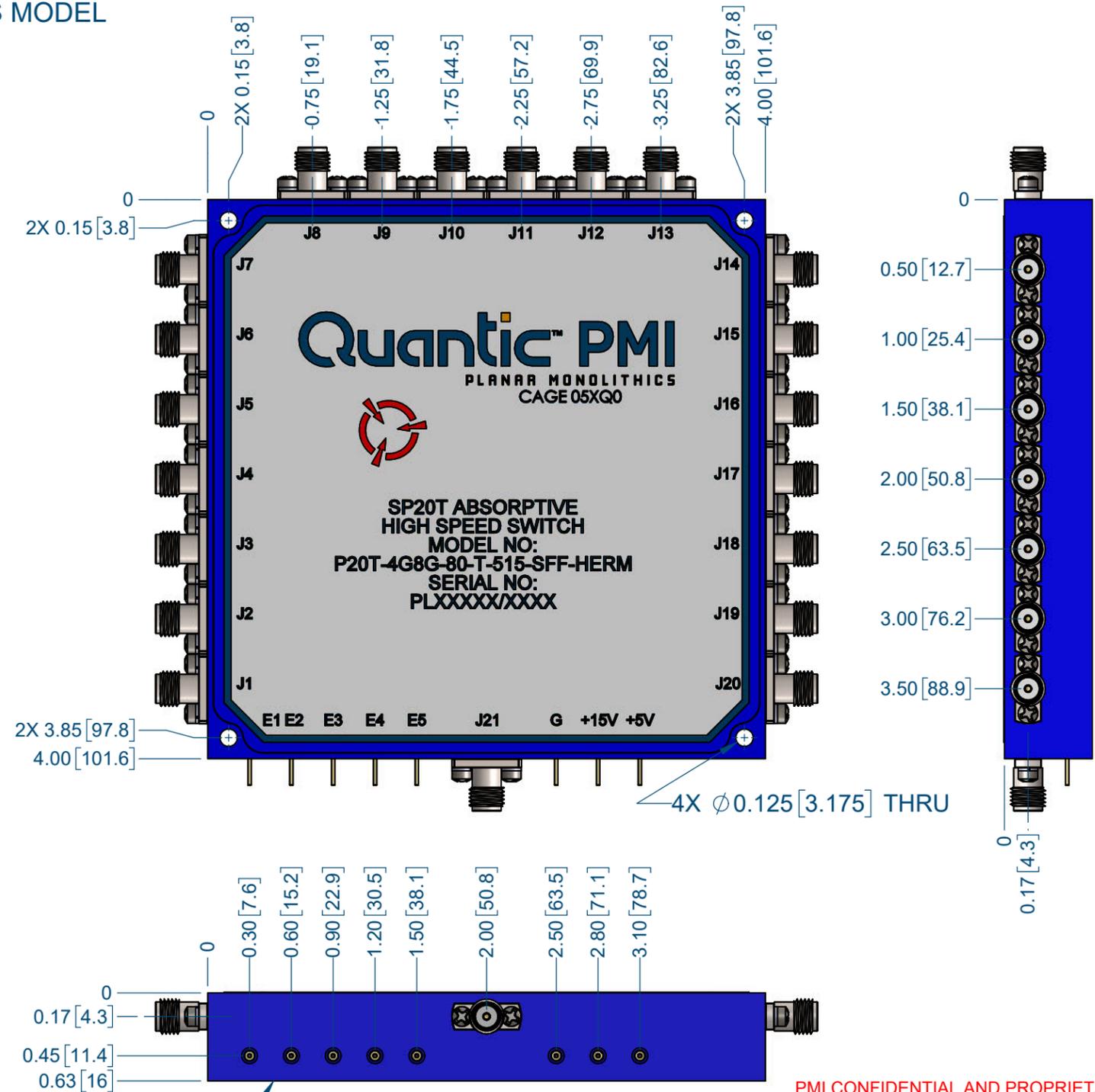
LOGIC TABLE 5 BIT DECODER					
E5	E4	E3	E2	E1	FUNCTION
1	1	1	1	0	J21-J1
1	1	1	0	1	J21-J2
1	1	1	0	0	J21-J3
1	1	0	1	1	J21-J4
1	1	0	1	0	J21-J5
1	1	0	0	1	J21-J6
1	1	0	0	0	J21-J7
1	0	1	1	1	J21-J8
1	0	1	1	0	J21-J9
1	0	1	0	1	J21-J10

LOGIC TABLE 5 BIT DECODER					
E5	E4	E3	E2	E1	FUNCTION
1	0	1	0	0	J21-J11
1	0	0	1	1	J21-J12
1	0	0	1	0	J21-J13
1	0	0	0	1	J21-J14
1	0	0	0	0	J21-J15
0	1	1	1	1	J21-J16
0	1	1	1	0	J21-J17
0	1	1	0	1	J21-J18
0	1	1	0	0	J21-J19
0	1	0	1	1	J21-J20

# ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -20 °C TO +85 °C (OPERATING)  
-57 °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
- TEMPERATURE CYCLE: ----- MIL-STD-202F, METHOD 107

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	3/11/2024	
	A2	ECN # 24-0163	5/30/2024	



MOUNTING SURFACE

PMI CONFIDENTIAL AND PROPRIETARY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		PART NO.		 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
FRACTIONS ±	DECIMALS .XX ± 0.010 .XXX ± 0.005	APPROVALS	DATE	
MATERIAL:	FINISH:	DRAWN	3/11/2024	TITLE
		DH		OUTLINE
NEXT ASSY	USED ON	ISSUED		P20T-4G8G-80-T-515-SFF-HERM
APPLICATION				SIZE B FSCM NO. 05XQ0 DWG NO. 27048361 REV. A2
				SCALE 1:2 SHEET 1 OF 1