

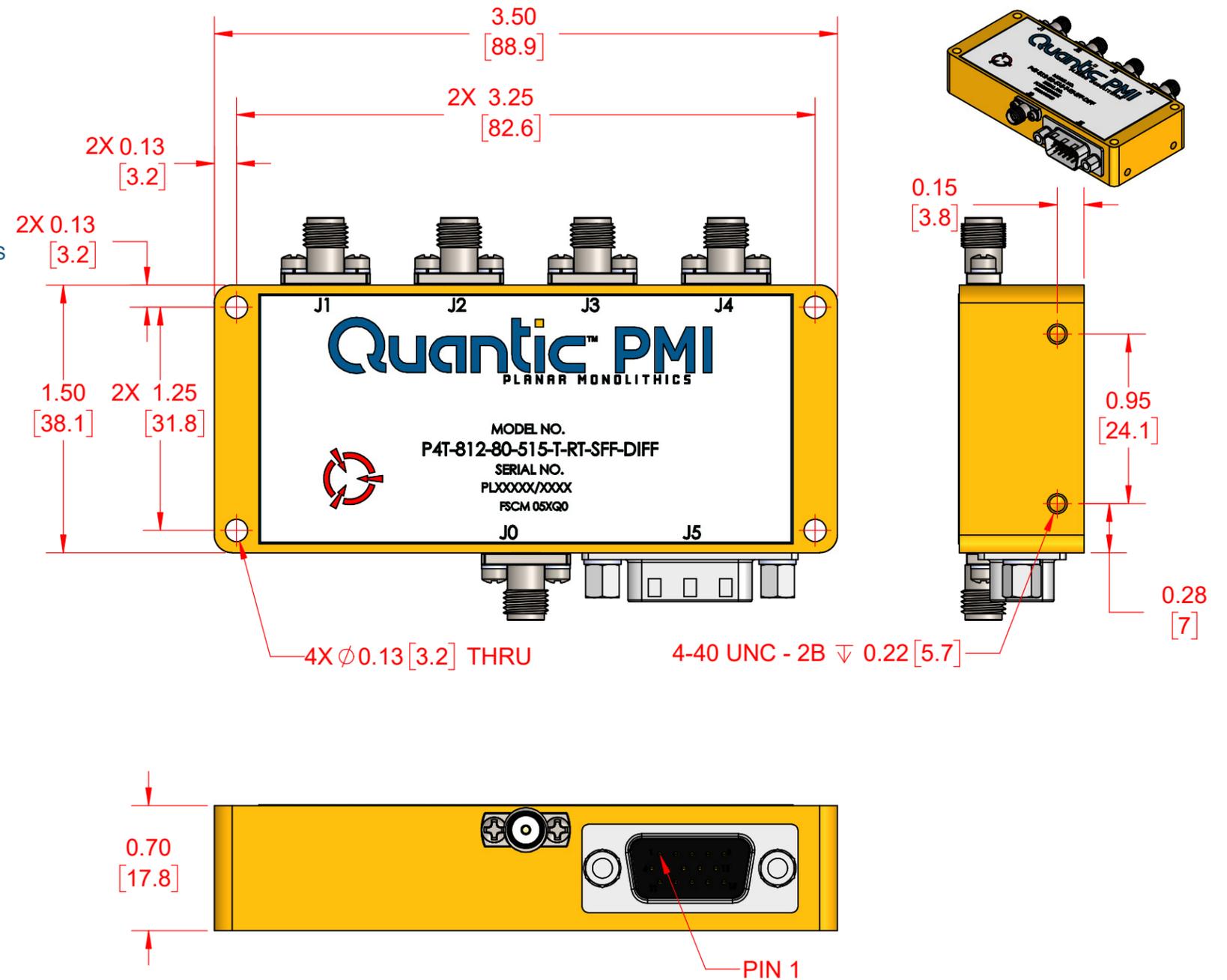
DESCRIPTION:

PMI MODEL NUMBER P4T-812-80-515-T-RT-SFF-DIFF IS A SINGLE POLE FOUR THROW ABSORPTIVE SWITCH. THIS MODEL USES EIA-422/485 COMPATIBLE DIFFERENTIAL CONTROL AND HAS THE FOLLOWING SPECIFICATIONS:

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	12/13/2022	

SPECIFICATIONS:

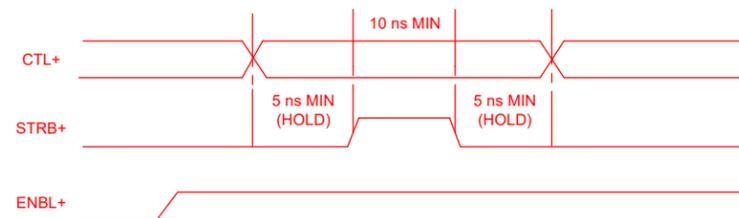
- FREQUENCY RANGE:..... 8 TO 12 GHz, 10.27 ± 1 GHz OPTIMIZED
- INSERTION LOSS:..... 2.5 dB MAX (10.27 ± 1 GHz), 3.0 dB MAX (8 - 12 GHz)
- ISOLATION:..... 80 dB MIN (10.27 ± 1 GHz), 70 dB MIN (8 - 12 GHz)
- VSWR (ON/OFF):..... 1.3:1 MAX (10.27 ± 1 GHz), 1.5:1 MAX (8 - 12 GHz)
- SWITCHING SPEED:..... 50 ns MAX, MEASURED FROM 50% STROBE
- INPUT P1dB:..... +27 dBm MIN
- SURVIVAL POWER:..... +30 dBm CW MAX
- CONTROL:..... SEE TRUTH TABLE
- ENABLE :..... ENBL "0" ALL ARMS OFF
ENBL "1" CTL1 & CTL2 CONTROL ON AND OFF ARMS
- STROBE :..... STRB LOCKS CTL POSITION ON RISING EDGE
- OPERATING POWER :..... -20 TO +20 dBm
(0.078 dB AMPLITUDE CHANGE MAX)
(0.351° PHASE CHANGE MAX)
- POWER SUPPLY :..... +5 V @ 200 mA MAX (REVERSE PROTECTION)
-15 V @ 150 mA MAX (REVERSE PROTECTION)
- CONNECTORS:..... SMA FEMALE(FIELD REPLACEABLE)
15-PIN HIGH DENSITY D-SUB MALE
- FINISH:..... GOLD PLATED



J5 CONNECTOR INPUT			
PIN	FUNCTION	PIN	FUNCTION
1	CTL1+	9	NC
2	CTL1-	10	GND
3	CTL2+	11	NC
4	CTL2-	12	NC
5	STRB+	13	+V
6	STRB-	14	-V
7	ENBL+	15	GND
8	ENBL-		

TRUTH TABLE

CTRL2	CTRL1	ARM ON
0	0	J0-J1
0	1	J0-J2
1	0	J0-J3
1	1	J0-J4



TIMING DIAGRAM

ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... +10°C TO +30°C (OPERATING)
-40°C TO +85°C (STORAGE)

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

PMI CONFIDENTIAL AND PROPRIETARY

<p>Quantic PMI PLANNED MONOLITHICS</p> <p>7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 662-5019, FAX: (301) 662-1731 WEB: WWW.PMI-RF.COM, EMAIL: SALES@PMI-RF.COM ISO 9001 CERTIFIED</p>		<p>APPROVALS</p> <p>DATE</p>	
<p>DRAWN</p> <p>S AZHAR</p> <p>REDRAWN</p>		<p>12/13/2022</p>	
<p>TITLE</p> <p>OUTLINE</p> <p>P4T-812-80-515-T-RT-SFF-DIFF</p>			
<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:</p> <p>FRACTIONS DECIMALS ANGLES</p> <p>± .XX ± 0.02 ± ± .XXX ± 0.01</p>		<p>SIZE</p> <p>B</p>	<p>FSCM NO.</p> <p>05XQ0</p>
<p>ISSUED</p>		<p>DWG NO.</p> <p>27045480</p>	<p>REV.</p> <p>A1</p>
<p>SCALE 1:1</p>			<p>SHEET 1 OF 1</p>