

DESCRIPTION:

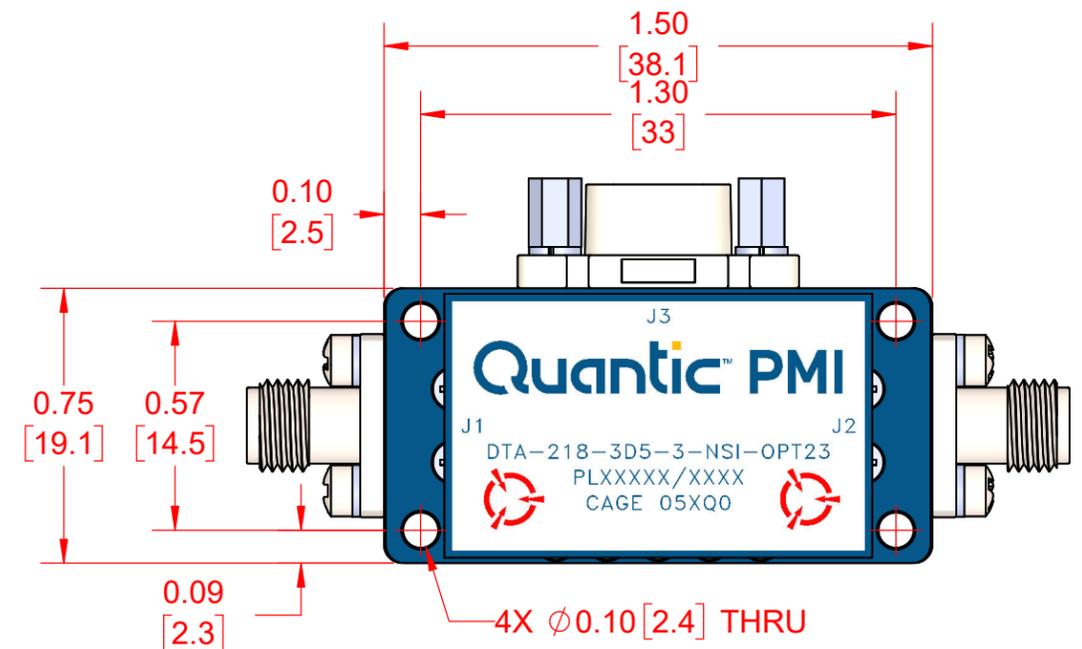
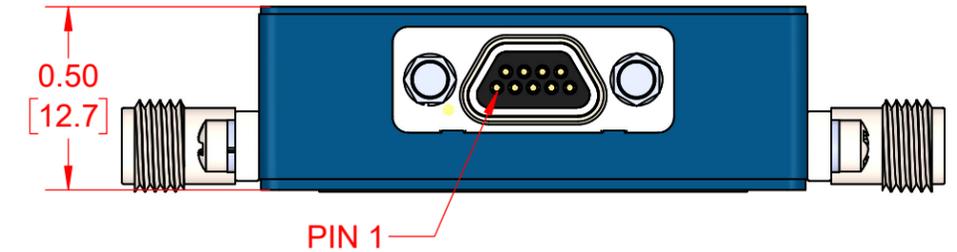
PMI MODEL NUMBER DTA-218-3D5-3-NSI-OPT23 IS A 6 BIT PROGRAMMABLE 31.5 dB ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.5 dB OVER THE FREQUENCY RANGE OF 2 GHz TO 3 GHz. THIS MODEL IS OFFERED IN THE SLIM LINE HOUSING MEASURING ONLY 0.5" IN HEIGHT WITH SMA FEMALE CONNECTORS.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	5/17/2023	

SPECIFICATIONS:

- FREQUENCY RANGE:..... 2.0 GHz TO 3.0 GHz
- ATTENUATION RANGE:..... 31.5 dB MIN
- ATTENUATION STEP SIZE:..... 0.5 dB MAX
- ATTENUATION ACCURACY:..... ±10% COMMANDED MIN
- ATTENUATION VS FREQUENCY:..... ±2.2 dB MAX
- INSERTION LOSS:..... 6.0 dB MAX
- VSWR:..... 2.0:1 MAX
- INSERTION LOSS FLATNESS / 1 GHz:..... 0.5 dB MAX
- ACCURACY OF ATTENUATION:..... ±2.0 dB TYP
- POWER HANDLING CAPABILITY:..... +27 dBm CW MAX
- INPUT 0.1 dB COMPRESSION:..... +22 dBm TYP
- INPUT 1 dB COMPRESSION:..... +22 dBm MIN
- SWITCHING SPEED:..... 100 ns MAX
- POWER SUPPLY:..... +5 & -5 VDC @ ±50 mA MAX
- CONNECTORS:..... (2) SMA FEMALE & 9 PIN MICRO-D FEMALE
- LOGIC INPUT:..... TTL LOGIC "0" (BIT ON): 0 TO +0.8 V
TTL LOGIC "1" (BIT OFF): +2.0 TO +5.0 V
- WEIGHT:..... 2.0 oz MAX
- SIZE:..... 1.5" X 0.75" X 0.5"
- FINISH:..... PAINTED BLUE

PIN NO	FUNCTION
1	0.5 dB (LSB)
2	1.0 dB
3	2.0 dB
4	4.0 dB
5	8.0 dB
6	16.0 dB (MSB)
7	+5 VDC
8	GND
9	-5 VDC



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -40°C TO +85°C (OPERATING)
-55°C TO +150°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 107D COND. A

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

PMI CONFIDENTIAL AND PROPRIETARY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01		APPROVALS DATE DRAWN J ESCANO 5/17/2023 REDRAWN ISSUED		TITLE OUTLINE DTA-218-3D5-3-NSI-OPT23	
		SIZE B FSCM NO. 05XQ0 DWG NO. 27046520 SCALE 2:1	REV. A1 SHEET 1 OF 1	Quantic PMI PLANAR MONOLITHICS 7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 662-5019, FAX: (301) 662-1731 WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED	