

**DESCRIPTION:**

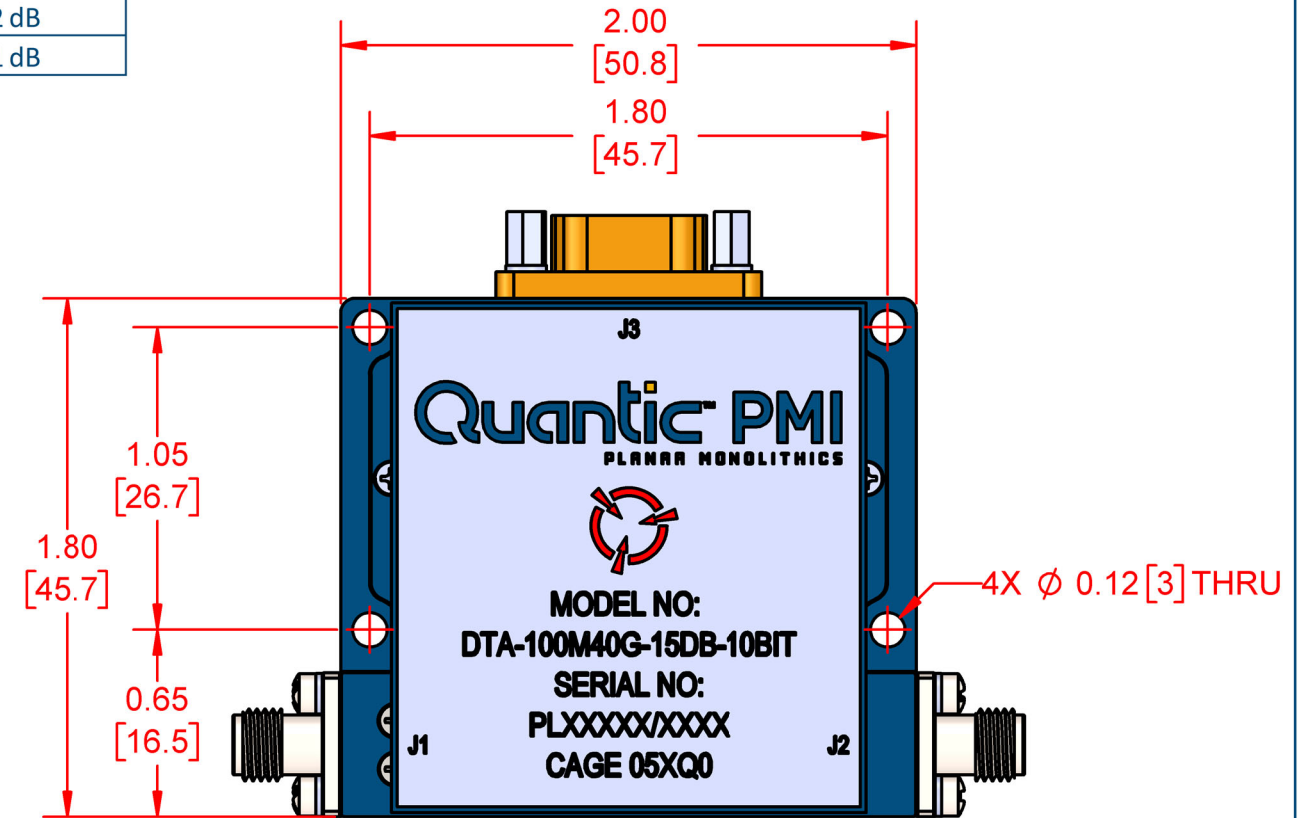
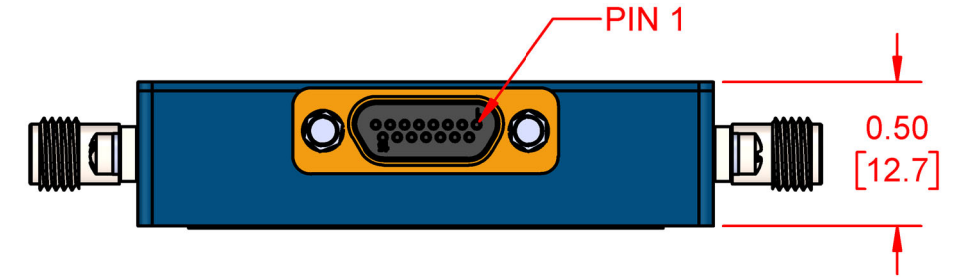
PMI MODEL NUMBER DTA-100M40G-15DB-10BIT IS A 10 BIT PROGRAMMABLE 16 dB ATTENUATOR WITH STEP RESOLUTION OF 0.02 dB OVER THE FREQUENCY RANGE OF 100 MHz TO 40 GHz.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	7/30/2024	
	A2	ECN # 24-0361	12/20/2024	

**SPECIFICATIONS:**

- FREQUENCY:..... 100 MHz TO 40 GHz
- MEAN ATTENUATION RANGE:..... 16 dB
- INSERTION LOSS:..... 3.0 dB TYP (UP TO 20 GHz)  
6.0 dB TYP (UP TO 40 GHz)
- VSWR:..... 2.5:1 TYP
- ACCURACY OF ATTENUATION:..... ±2.5 dB TYP
- MINIMUM ATTENUATION STEP:..... 0.015625 dB
- POWER HANDLING CAPABILITY:..... +24 dBm CW MAX
- INPUT 1 dB COMPRESSION:..... +20 dBm TYP
- SWITCHING TIME
  - ON TIME:..... 1.0 us MAX
  - OFF TIME:..... 0.5 us MAX
- POWER SUPPLY:..... +12V TO +15 V @ 50 mA MAX
- CONNECTORS:..... (2) 2.92mm(F) & 15 PIN MICRO-D(F)  
SHIPPED WITH MICRO-D(M) MATING CONNECTOR
- WEIGHT:..... 3.0 oz (85 gm) APPROXIMATE
- FINISH:..... PAINTED BLUE
- LOGIC INPUT
  - LOGIC "0" (BIT OFF):..... 0 TO +0.8 V
  - LOGIC "1" (BIT ON):..... +2.0 TO +5.0 V

PIN NO:	J3 PIN FUNCTION
1	0.5 dB
2	0.25 dB
3	0.125 dB
4	0.0625 dB
5	GND
6	0.03125 dB
7	0.015625 dB (LSB)
8	GND
9	N.C.
10	N.C.
11	+12V TO +15V
12	8 dB (MSB)
13	4 dB
14	2 dB
15	1 dB



**ENVIRONMENTAL RATINGS:**

- TEMPERATURE:..... -50°C TO +85°C (OPERATING)  
-65°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

PMI CONFIDENTIAL AND PROPRIETARY

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

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± ± .XXX ± 0.01 ±		APPROVALS DATE DRAWN J ESCANO 7/30/2024 REDRAWN ISSUED		TITLE OUTLINE DTA-100M40G-15DB-10BIT		SIZE FSCM NO. DWG NO. REV. B 05XQ0 27049240 A2	
SCALE 3:2				SHEET 1 OF 1			

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