

**DESCRIPTION:**

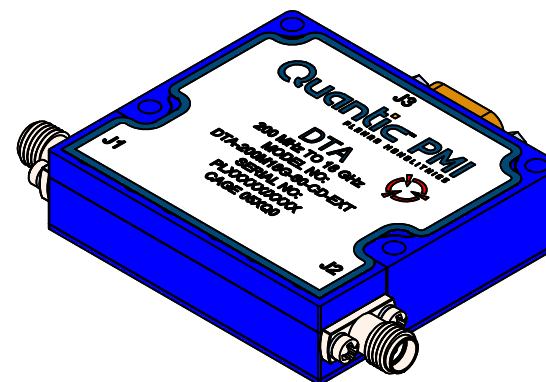
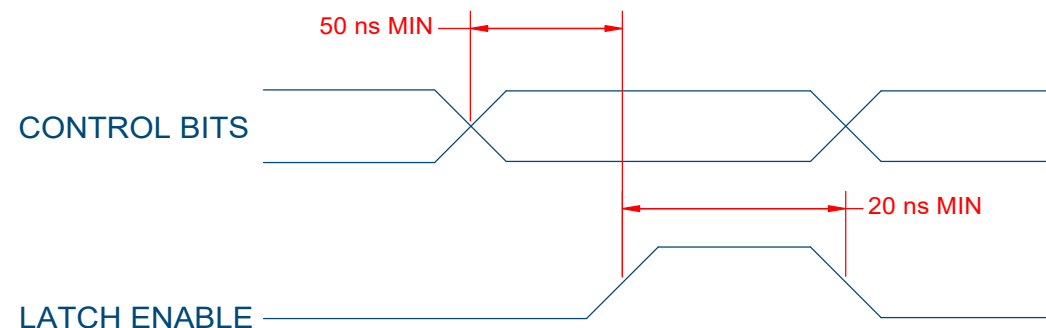
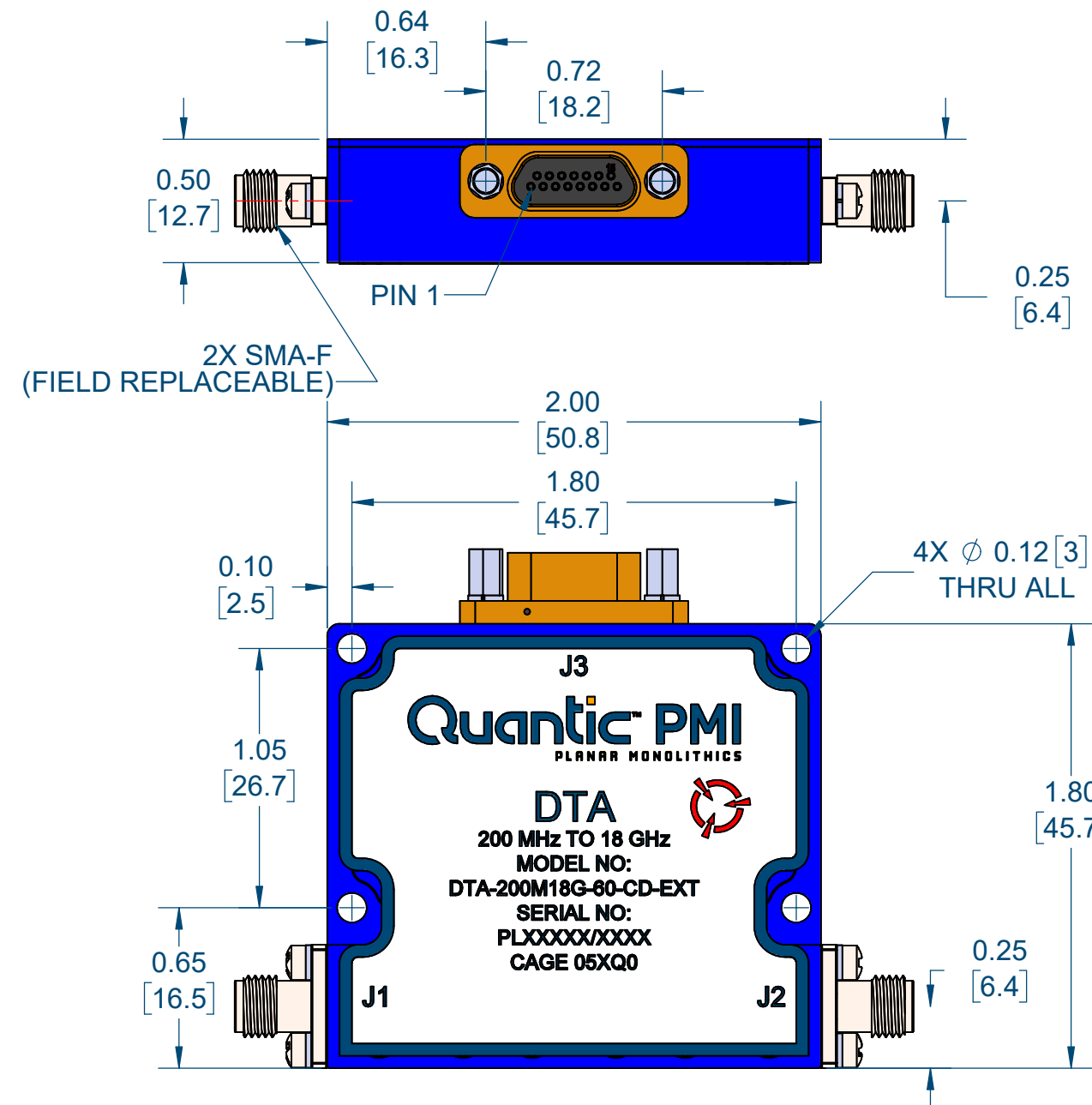
PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER DTA-200M18G-60-CD-EXT IS A 10-BIT DIGITALLY TUNED ATTENUATOR DESIGNED FOR THE 200 MHz TO 18 GHz FREQUENCY RANGE USING AN EXTERNAL LATCH TO SET THE ATTENUATION LEVEL.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	9/10/24	
	B2	ECN # 26-0062	3/17/26	

**SPECIFICATIONS:**

- FREQUENCY RANGE:..... 0.2 TO 18.0 GHz
- RF OPERATING INPUT POWER LEVEL:..... +20 dBm MAXIMUM
- SURVIVAL INPUT POWER LEVEL:..... 1 WATT CW
- INSERTION LOSS:..... 5 dB MAXIMUM
- INPUT / OUTPUT VSWR:..... 2:1 TYPICAL, 2.4:1 MAXIMUM
- ATTENUATION RANGE:..... 60 dB MINIMUM
- CONTROL BITS:..... 10 BIT TTL
- LATCH:..... EXTERNAL TTL  
(SEE TIMING DIAGRAM BELOW)
- ATTENUATION FLATNESS:..... UP TO 20 dB: ±1 dB TYPICAL  
UP TO 40 dB: ±1.25 dB TYPICAL  
UP TO 60 dB: ±1.5 dB TYPICAL
- ATTENUATION ACCURACY:..... UP TO 20 dB: ±1 dB TYPICAL  
UP TO 40 dB: ±1.25 dB TYPICAL  
UP TO 60 dB: ±1.5 dB TYPICAL
- MINIMUM ATTENUATION STEP:..... 0.0625 dB NOMINAL
- SWITCHING SPEED:..... ON: 1us MAXIMUM  
OFF: 0.5us MAXIMUM
- CONNECTORS:..... RF IN/ RF OUT: SMA(F)  
POWER AND CONTROL: 15-PIN MICRO-D FEMALE
- POWER SUPPLIES:..... +8VDC @ 350 mA MAXIMUM
- FINISH:..... PAINTED BLUE

J3: 15-PIN CONNECTOR PIN-OUT	
PIN	FUNCTION
1	2 dB
2	1 dB
3	0.5 dB
4	0.25 dB
5	GND
6	0.125 dB
7	0.0625 dB (LSB)
8	GND
9	LATCH
10	N/C
11	+8VDC
12	32 dB (MSB)
13	16 dB
14	8 dB
15	4 dB



**ENVIRONMENTAL RATINGS:**

- TEMPERATURE:..... +55°C ± 1°C (OPERATING)  
-54°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

APPROVALS DRAWN: D. HOSCHAR REDRAWN: ISSUED:		DATE 9/10/24	TITLE OUTLINE DTA-200M18G-60-CD-EXT		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS .XX ± 0.02 DECIMALS .XXX ± 0.01 ANGLES ±		SIZE B	FSCM NO. 05XQ0	DWG NO. 27049460	REV. B2
SCALE 1.5:1			SHEET 1 OF 1		

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