

DESCRIPTION:

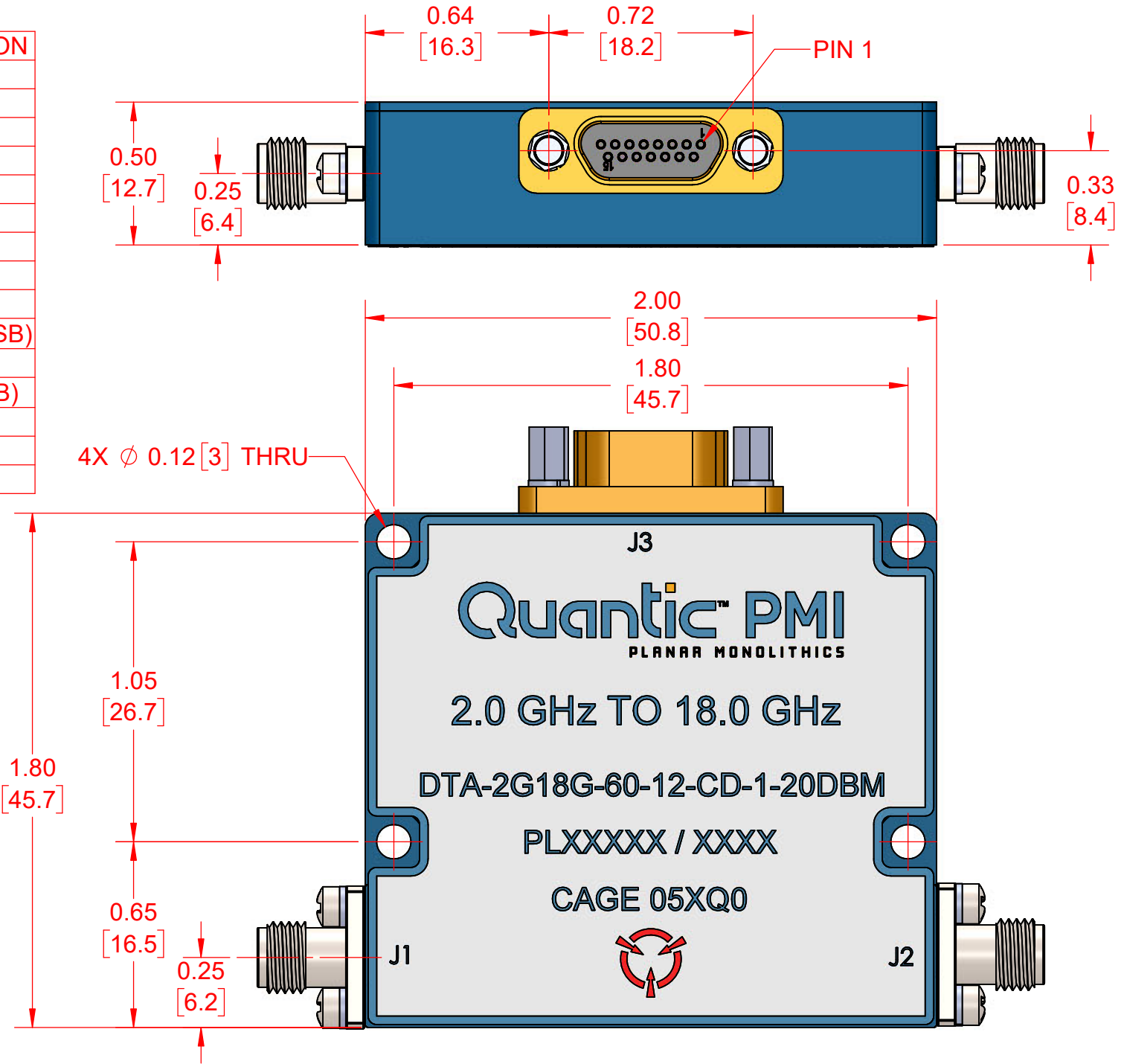
PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER DTA-2G18G-60-12-CD-1-20DBM IS A NON-REFLECTIVE 12 BIT PROGRAMMABLE 60 dB PIN DIODE ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.016 dB OVER THE FREQUENCY RANGE OF 2.0 TO 18.0 GHz. THIS MODEL IS OFFERED IN A SLIM LINE HOUSING MEASURING ONLY 0.5" IN HEIGHT.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	6/13/2024	
	B1	ECN # 25-0285	10/15/2025	
	B2	ECN # 26-0061	3/13/2026	

SPECIFICATIONS: @ +25°C

- FREQUENCY RANGE:..... 2.0 GHz TO 18.0 GHz
- MEAN ATTENUATION RANGE:..... 60 dB
- INSERTION LOSS:..... 4.8 dB MAX
- VSWR:..... 2.0 : 1 MAX
- FLATNESS UP TO
 - 20 dB:..... ±1.0 dB TYP, ±1.5 dB MAX
 - 40 dB:..... ±1.25 dB TYP, ±1.75 dB MAX
 - 60 dB:..... ±3.0 dB TYP, ±5.0 dB MAX
- ACCURACY OF ATTENUATION
 - 0 TO 20 dB:..... ±1.0 dB MAX
 - 20 TO 40 dB:..... ±1.5 dB MAX
 - 40 TO 60 dB:..... ±2.0 dB MAX
- MINIMUM ATTENUATION STEP:..... 0.016 dB
- OPERATING POWER:..... +20 dBm MAX
- SURVIVAL POWER:..... 1W AVERAGE FROM -65°C TO +25°C
- SWITCHING TIME
 - ON TIME:..... 1.0 us MAX
 - OFF TIME:..... 0.5 us MAX
- DC POWER SUPPLY..... +12 TO +15V @ 180 mA MAX
- CONNECTORS:..... 2 SMA FEMALE & 15 PIN MICRO-D FEMALE
SHIPPED WITH MATING MICRO-D MALE
- WEIGHT:..... 3.0 oz (85 gm) APPROXIMATE
- FINISH:..... PAINTED BLUE
- LOGIC INPUT:
 - LOGIC "0" (BIT OFF):..... -0.3 TO +0.8V
 - LOGIC "1" (BIT ON):..... +2.0 TO +5.0
- SPURIOUS SIGNALS:..... -70 dBm MAX

PIN NO:	J3 FUNCTION
1	2 dB
2	1 dB
3	0.5 dB
4	0.25 dB
5	GND
6	0.13 dB
7	0.06 dB
8	GND
9	0.03 dB
10	0.016 dB (LSB)
11	+VDC
12	32 dB (MSB)
13	16 dB
14	8 dB
15	4 dB



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -40°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

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	TITLE DTA-2G18G-60-12-CD-1-20DBM	SIZE B	FSCM NO. 05XQ0	DWG NO. 27048840	REV. B2
		DRAWN S AZHAR REDRAWN	6/13/2024					
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