

DESCRIPTION:

PMI MODEL DTA-30M7D2G-60-CD-1 IS A 8 BIT PROGRAMMABLE 60 dB PIN DIODE ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.25 dB OVER THE FREQUENCY RANGE OF 0.03 TO 7.2 GHz. HOUSING SIZE IS 2.0" x 1.8" x 0.5" WITH A 15 PIN MICRO-D FEMALE CONTROL CONNECTOR (MATING CONNECTOR SUPPLIED) AND SMA FEMALE CONNECTORS.

SPECIFICATIONS:

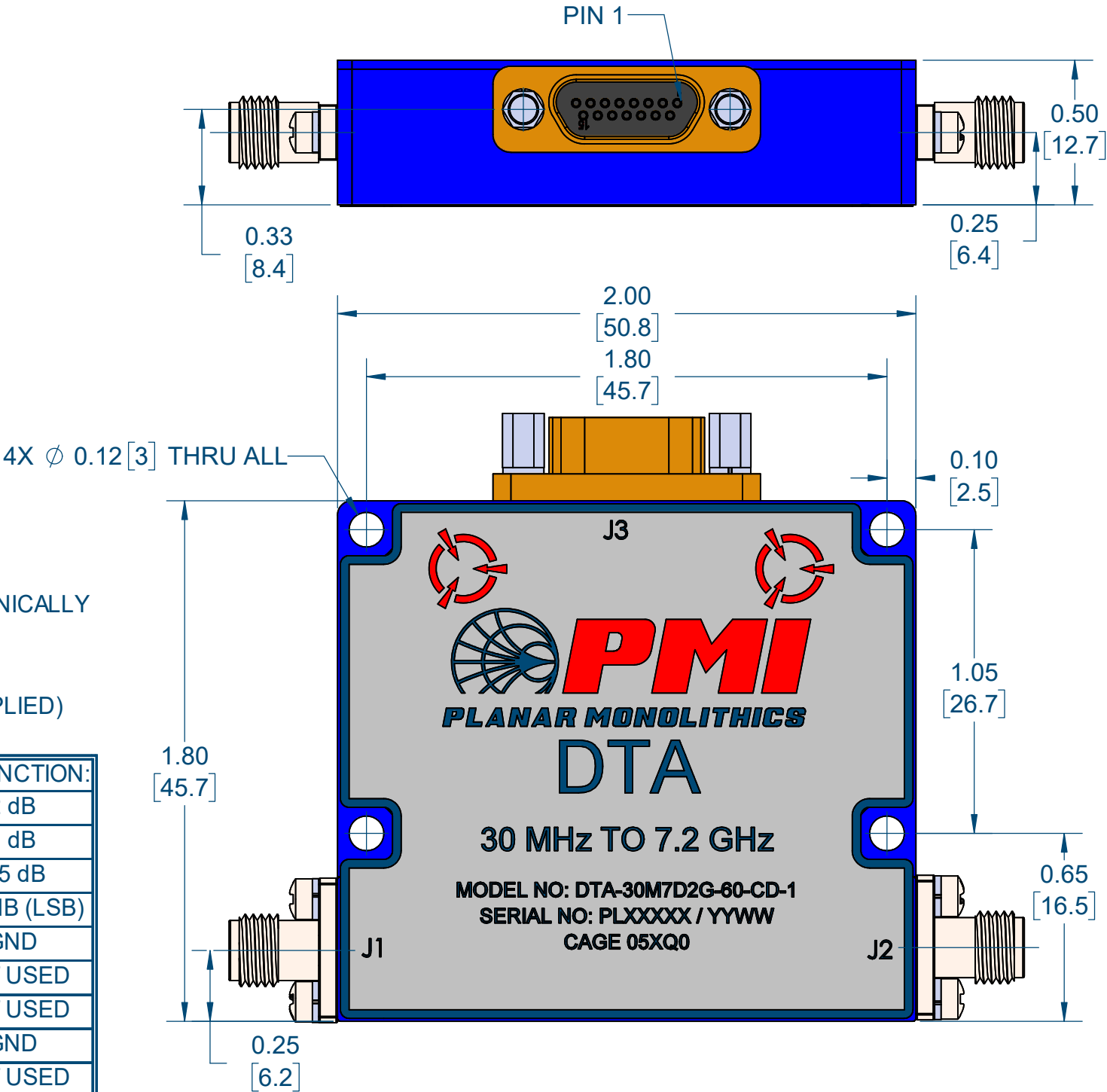
- FREQUENCY RANGE: 0.03 GHz TO 7.2 GHz
- MEAN ATTENUATION RANGE: 60 dB
- INSERTION LOSS: 4.0 dB MAX
- RETURN LOSS: -8.5 dB MAX
- MAX POWER RATING: +20 dBm MAX
- ATTENUATION FLATNESS: ±1.0 dB @ 10 dB
±1.5 dB @ 20 dB
±3.0 dB @ 40 dB
±5.0 dB @ 60 dB
- ATTENUATION ACCURACY: ±1.0 dB FROM 0-30 dB
±1.3 dB FROM 30-50 dB
±1.5 dB FROM 50-60 dB
- SWITCHING TIME: 50 us MAX
- DIGITAL CONTROL: 8 BIT BINARY TTL
- LOGIC INPUT: LOGIC "0" (BIT OFF) = -0.3V TO +0.8V
LOGIC "1" (BIT ON) = +2V TO +5V
- INPUT TRACKING: ATTENUATION MUST TRACK INPUT VALUES MONOTONICALLY
- POWER SUPPLY: +12 VDC @ 180 mA MAX
(10.8 VDC MIN TO 13.2 VDC MAX)
- PWR/CTL CONNECTOR: 15 PIN MICRO-D FEMALE (MATING CONNECTOR SUPPLIED)
- CONNECTORS: SMA (F) REMOVEABLE
- FINISH: PAINTED BLUE

ENVIRONMENTAL RATINGS:

- TEMPERATURE: -40°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202, METHOD 103B COND. B
- SHOCK: MIL-STD-202, METHOD 213B COND. B
- VIBRATION: MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202, METHOD 105C COND. B
- FUNGUS: MIL-STD-810, METHOD 508.2
- TEMPERATURE CYCLE: MIL-STD-202, METHOD 107D COND. A

PIN NO:	J3 FUNCTION:
1	2 dB
2	1 dB
3	0.5 dB
4	0.25 dB (LSB)
5	GND
6	NOT USED
7	NOT USED
8	GND
9	NOT USED
10	NOT USED
11	+12 VDC
12	32 dB (MSB)
13	16 dB
14	8 dB
15	4 dB

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



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± ± .XXX ± 0.01				APPROVALS DRAWN D. HOSCHAR REDRAWN ISSUED		DATE 1/29/2026	PMI CONFIDENTIAL AND PROPRIETARY 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			
							TITLE OUTLINE DTA-30M7D2G-60-CD-1			
							SIZE B	FSCM NO. 05XQ0	DWG NO. 27053940	REV. A1
							SCALE 2:1		SHEET 1 OF 1	