

**DESCRIPTION:**

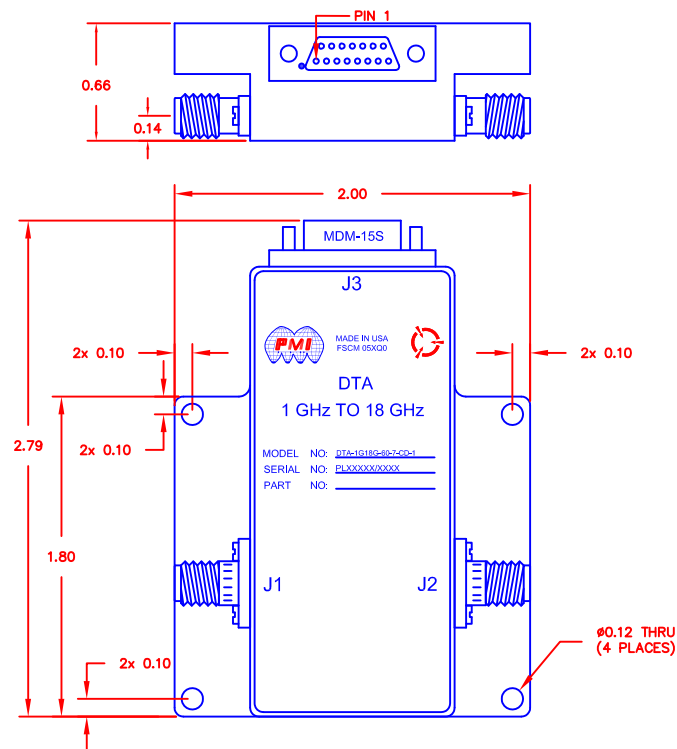
PMI MODEL NUMBER DTA-1G18G-60-7-CD-1 IS A NON-REFLECTIVE 7 BIT PROGRAMMABLE 60 dB PIN DIODE ATTENUATOR WITH A STEP RESOLUTION OF 0.5 dB OVER THE FREQUENCY RANGE OF 1 TO 18 GHz.

**SPECIFICATIONS:**

- FREQUENCY: \_\_\_\_\_ 1 GHz TO 18.0 GHz
- MEAN ATTENUATION RANGE: \_\_\_\_\_ 60 dB
- INSERTION LOSS: \_\_\_\_\_ 5 dB MAX, 4.8 dB TYP
- VSWR: \_\_\_\_\_ 2.0 :1 MAX
- FLATNESS UP TO:
  - 20 dB \_\_\_\_\_ ±1.0 dB MAX
  - 40 dB \_\_\_\_\_ ±1.25 dB MAX
  - 60 dB \_\_\_\_\_ ±3.0 dB MAX
- MONOTONICITY: \_\_\_\_\_ GUARANTEED
- TEMPERATURE COEFFICIENT (MAX): \_\_\_\_\_ ±0.02 dB/°C
- ACCURACY OF ATTENUATION:
  - 0 dB TO 20 dB \_\_\_\_\_ ±1.0 dB MAX
  - 20 dB TO 40 dB \_\_\_\_\_ ±1.5 dB MAX
  - 40 dB TO 60 dB \_\_\_\_\_ ±2.0 dB MAX
- MINIMUM ATTENUATION STEP: \_\_\_\_\_ 0.5 dB
- OPERATING POWER: \_\_\_\_\_ +17 dBm CW
- 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: \_\_\_\_\_ +15V @ 150 mA MAX
- CONNECTORS: \_\_\_\_\_ 2 SMA & 15 PIN Micro-D-Female  
Shipped with Mating Micro-D Male
- WEIGHT: \_\_\_\_\_ 3.0 oz (85 gm) Approximate
- FINISH: \_\_\_\_\_ BLUE EPOXY POLIMIDE COATING IAW MIL-C-22750,  
TYPE I OVER EPOXY POLIMIDE PRIMER  
IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.
- LOGIC INPUT @ 10 uA MAX:
  - LOGIC "0" (BIT OFF) \_\_\_\_\_ -0.3 to +0.8V
  - LOGIC "1" (BIT ON) \_\_\_\_\_ +2.0 to +5.0V

PIN NO:	J3 PIN FUNCTIONS
1	2dB
2	1dB
3	0.5dB (LSB)
4	NC
5	GND
6	NC
7	NC
8	GND
9	NC
10	NC
11	+15VDC
12	32dB (MSB)
13	16dB
14	8dB
15	4dB

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	3/18/20	



PMI CONFIDENTIAL AND PROPRIETARY

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**ENVIRONMENTAL RATINGS:**

- TEMPERATURE: \_\_\_\_\_ -40°C TO +85°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- HUMIDITY: \_\_\_\_\_ MIL-STD-202F, METHOD 103B COND. B (96 HOURS @ 95%)
- SHOCK: \_\_\_\_\_ MIL-STD-202F, METHOD 213B COND. B (75 g, 6 ms)
- VIBRATION: \_\_\_\_\_ MIL-STD-202F, METHOD 204D COND. B  
(LESSER OF 0.06" DOUBLE AMPLITUDE OR 15g)
- ALTITUDE: \_\_\_\_\_ MIL-STD-202F, METHOD 105C COND. B (50,000 FT.)
- TEMPERATURE CYCLE: \_\_\_\_\_ MIL-STD-202F, METHOD 107D, COND. A (5 CYCLES)

ALL DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 X.XX ±0.020  
 X.XXX ±0.010

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

APPROVALS		DATE	TITLE			
DRAWN	<i>DPD</i>	10/4/18	PRODUCT FEATURE			
REDRAWN	<i>EW</i>	3/18/20	DTA-1G18G-60-7-CD-1			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	PRELIMINARY	-
			SCALE	N:S	SHEET	1 OF 1