

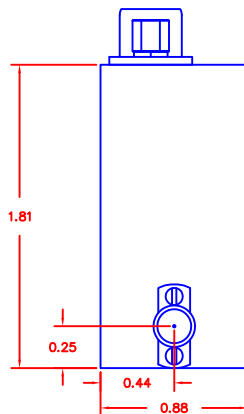
**DESCRIPTION:**

PMI MODEL NUMBER DTA-50M2D5G-CD-SFF-1-ROHS IS A NON-REFLECTIVE 10 BIT PROGRAMMABLE 60 DB PIN DIODE ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.06 DB OVER THE FREQUENCY RANGE OF 50 MHz TO 2.5 GHz.

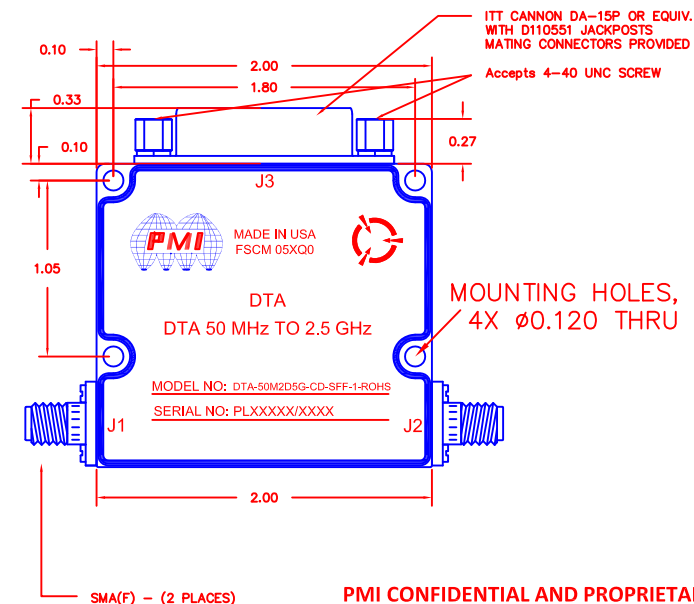
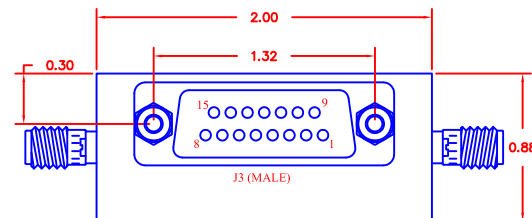
**SPECIFICATIONS:**

- FREQUENCY: \_\_\_\_\_ 50 MHz TO 2.5 GHz
- MEAN ATTENUATION RANGE \_\_\_\_\_ 60dB
- INSERTION LOSS \_\_\_\_\_ 4.5 dB MAX
- VSWR: \_\_\_\_\_ 2.0 :1 MAX
- FLATNESS UP TO
  - 20 dB \_\_\_\_\_ ±0.6 dB MAX
  - 40 dB \_\_\_\_\_ ±0.75 dB MAX
  - 60 dB \_\_\_\_\_ ±2.5 dB MAX
- ACCURACY OF ATTENUATION
  - 0 dB TO 20 dB \_\_\_\_\_ ±0.5 dB MAX
  - 20 dB TO 40 dB \_\_\_\_\_ ±0.75 dB MAX
  - 40 dB TO 60 dB \_\_\_\_\_ ±1.5 dB MAX
- MINIMUM ATTENUATION STEP \_\_\_\_\_ 0.06 dB
- SURVIVAL POWER: \_\_\_\_\_ 1W Average from -65°C to +25°C
- SWITCHING TIME (50% TTL TO 10%-90% RF)
  - ON TIME \_\_\_\_\_ 0.75 usec MAX
  - OFF TIME \_\_\_\_\_ 0.45 usec MAX
- DC POWER SUPPLY \_\_\_\_\_ +15V @ 50mA MAX  
 \_\_\_\_\_ -15V @ 50 mA MAX
- CONNECTORS \_\_\_\_\_ 2 SMA Female & 15 PIN D-SUB  
 Shipped with Mating D-SUB including pigtails >24" length
- 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
  - LOGIC "0" (BIT OFF) \_\_\_\_\_ -0.3 to +0.8V
  - LOGIC "1" (BIT ON) \_\_\_\_\_ +2.0 to +5.0V

PIN NO:	J3 PIN FUNCTIONS
1	GND
2	Not Connected
3	0.13 dB
4	GND
5	0.25 dB
6	0.5 dB
7	1.0 dB
8	2.0 dB
9	4.0 dB
10	8.0 dB
11	16.0 dB
12	32.0 dB (MSB)
13	+V
14	-V
15	0.06 dB (LSB)



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	7/1/22	



**ENVIRONMENTAL RATINGS:**

- TEMPERATURE: \_\_\_\_\_ -50°C TO +100°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: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

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 ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			REV.
DRAWN	AF	7/1/22	PRODUCT FEATURE			
CHECKED			SIZE	FSCM NO.	DWG NO.	
ISSUED			A	05XQ0		-
			SCALE	N:S	SHEET	1 OF 1