

**DESCRIPTION:**

PMI MODEL NUMBER DTA-50M2D5G-CD-SFF 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 50MHZ TO 2.5 GHz.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	2/11/11	

**SPECIFICATIONS:**

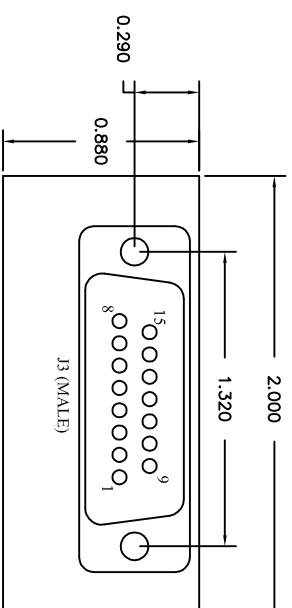
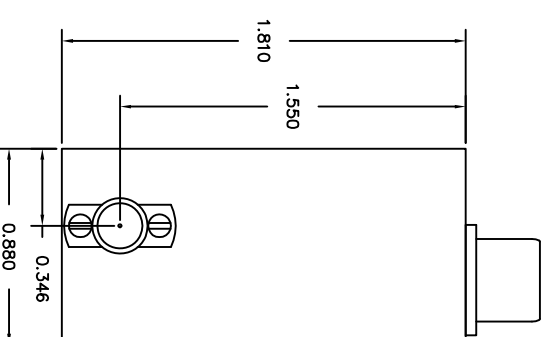
- FREQUENCY: 50 MHz TO 2.5 GHz
- MEAN ATTENUATION RANGE: 60dB
- INSERTION LOSS: 4.5 dB MAX
- VSWR: 2.0:1
- FLATNESS UP TO
  - 20 dB ±1.0 dB
  - 40 dB ±1.25 dB
  - 60 dB ±3.0 dB
- ACCURACY OF ATTENUATION
  - 0 dB TO 20 dB ±1.0 dB
  - 20 dB TO 40 dB ±1.5 dB
  - 40 dB TO 60 dB ±2.0 dB
- MINIMUM ATTENUATION STEP: 0.06 dB
- POWER HANDLING CAPABILITY: Up to 50mW CW  
2W Average or peak from -65C to +25C (SURVIVAL)
- SWITCHING TIME
  - ON TIME 1.0 USEC MAX
  - OFF TIME 0.5 USEC MAX
- POWER SUPPLY: 15V @ 100mA  
-15V @ 100 mA
- CONNECTORS: 2 SMA & 15 PIN D-SUB
- WEIGHT: 3.0 oz (85 gm) Approximate
- FINISH: PAINTED GREY

**ENVIRONMENTAL RATINGS:**

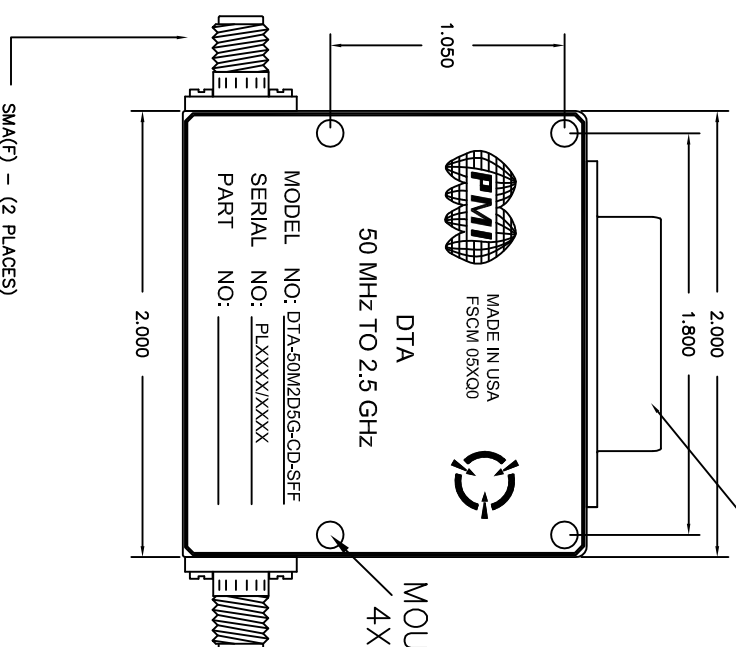
- TEMPERATURE: -50°C TO +100°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- SALT FOG: MIL-STD-202F, METHOD 107D COND. A
- FUNGUS: MIL-STD-810C, METHOD 508.2
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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)



ITT CANNON DA-15P OR EQUIV. WITH DT1055T JACKPOSTS MATING CONNECTORS PROVIDED




MOUNTING HOLES, 4X Ø0.120 THRU

- LOGIC INPUT
- LOGIC "0" (BIT OFF) ..... -0.3 to +0.8V
- LOGIC "1" (BIT OFF) ..... +2.0 to +5.0V
- CURRENT ..... 10uA max.

ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
XXX ±0.010  
X:XXX ±0.005

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ISO 9001:2008 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN <i>JM</i>		2/11/11		PRODUCT FEATURE	
CHECKED		SIZE		FSCM NO.	
		A		05X00	
ISSUED		DWG NO.		REV.	
		27013961		A	
SCALE		N:S		SHEET	
				1 OF 1	