

DESCRIPTION:

PMI MODEL NUMBER DTA-0R5G45-60-CD-1 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 0.5 TO 4.0 GHZ.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	2/9/11	

SPECIFICATIONS:

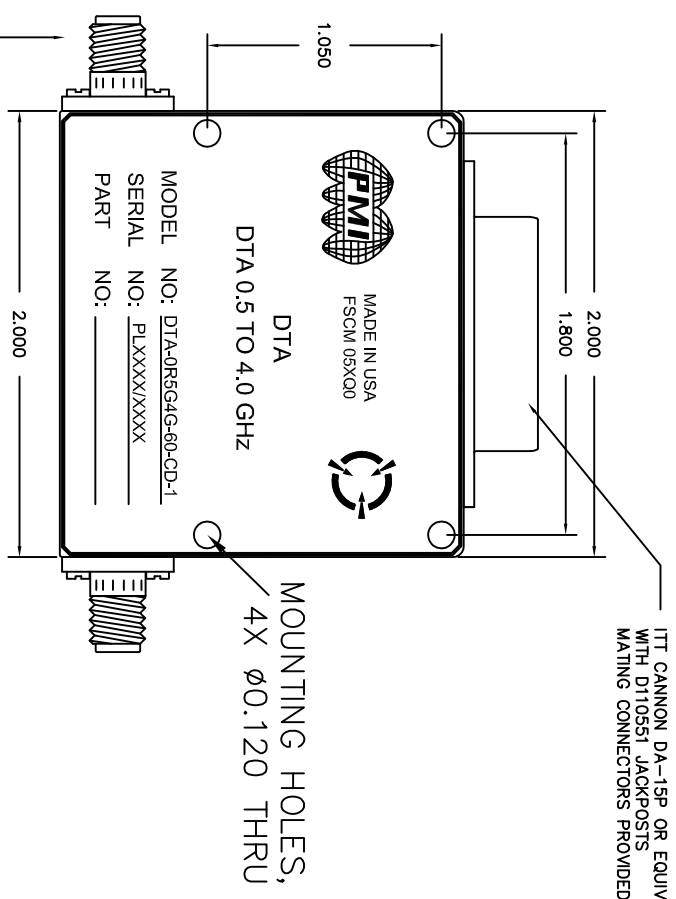
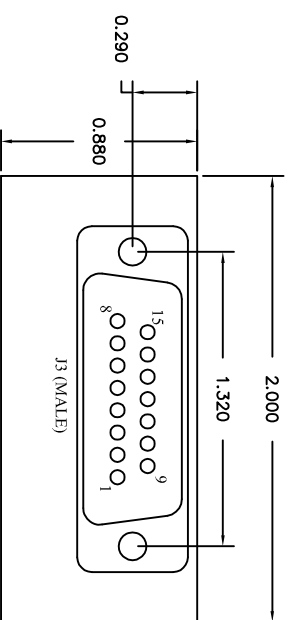
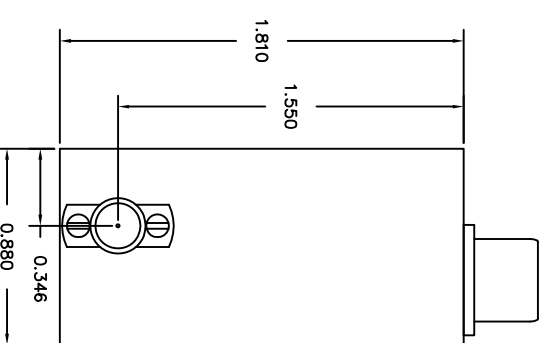
- FREQUENCY: 0.5 GHZ TO 4.0 GHZ
- MEAN ATTENUATION RANGE: 60dB
- INSERTION LOSS: 2.7 DB MAX
- VSWR: 1.8:1
- SURVIVAL POWER: 2W (-65C TO +25C)
- FLATNESS UP TO
 - 20 DB ±0.5 DB
 - 40 DB ±0.75 DB
 - 60 DB ±1.0 DB
- ACCURACY OF ATTENUATION
 - 0 DB TO 20 DB ±1.0 DB
 - 20 DB TO 40 DB ±1.5 DB
 - 40 DB TO 60 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)



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

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APPROVALS	DATE	TITLE	SIZE	FSCM NO.	DWG NO.	REV.
<i>gjk</i>	2/9/11	PRODUCT FEATURE	A	05X00	27013132	A
CHECKED		DTA-0R5G45-60-CD-1	SCALE	N:S	SHEET	1 OF 1
ISSUED						

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