

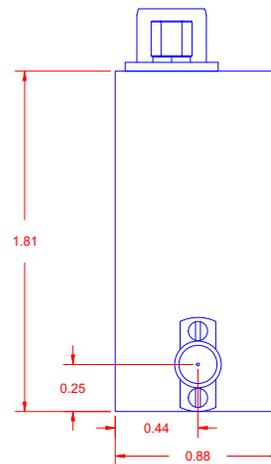
**DESCRIPTION:**

PMI MODEL NUMBER DTA-0R5G4G-60-CD-1-OPT12VDC 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.

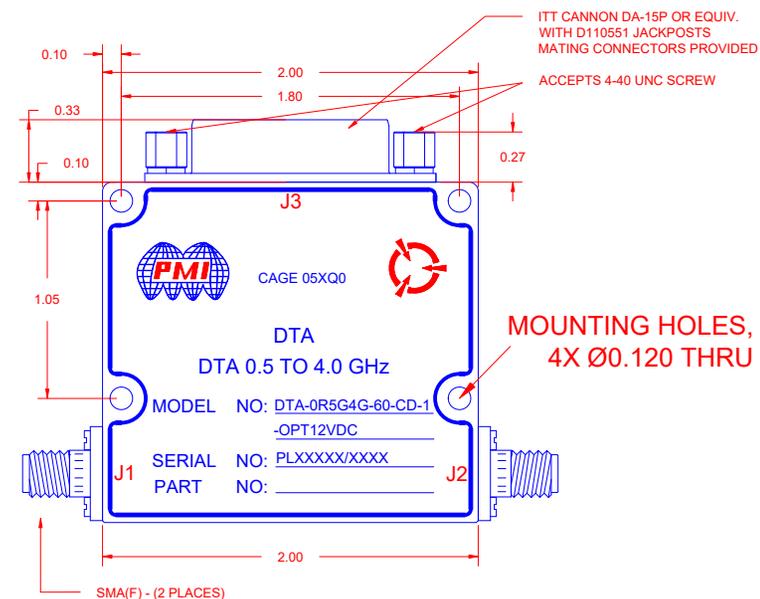
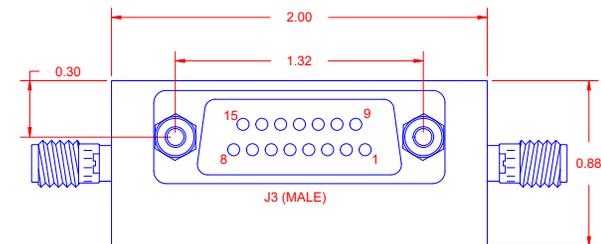
**SPECIFICATIONS:**

- FREQUENCY: \_\_\_\_\_ 0.5 GHz TO 4.0 GHz
- MEAN ATTENUATION RANGE: \_\_\_\_\_ 60 dB
- INSERTION LOSS: \_\_\_\_\_ 2.7 dB MAX
- VSWR: \_\_\_\_\_ 1.8:1 MAX
- FLATNESS UP TO:
  - 20dB \_\_\_\_\_ ±0.5 dB TYP
  - 40dB \_\_\_\_\_ ±0.75 dB TYP
  - 60dB \_\_\_\_\_ ±1.0 dB TYP
- ACCURACY OF ATTENUATION:
  - 0 TO 20 dB \_\_\_\_\_ ±1.0 dB TYP
  - 20 TO 40 dB \_\_\_\_\_ ±1.5 dB TYP
  - 40 TO 60 dB \_\_\_\_\_ ±2.0 dB TYP
- MINIMUM ATTENUATION STEP: \_\_\_\_\_ 0.06 dB
- SURVIVAL POWER: \_\_\_\_\_ 2W AVERAGE FROM -65 °C to +25 °C
- SWITCHING TIME:
  - ON TIME \_\_\_\_\_ 1.0 us MAX
  - OFF TIME \_\_\_\_\_ 0.5 us MAX
- DC POWER SUPPLY: \_\_\_\_\_ +12 V @ 150mA MAX  
 \_\_\_\_\_ -12 V @ 80 mA MAX
- CONNECTORS: \_\_\_\_\_ 2 SMA & 15 PIN D-SUB  
 SHIPPED WITH MATING D-SUB
- WEIGHT: \_\_\_\_\_ 3.0 oz (85 gm) TYP
- FINISH: \_\_\_\_\_ PAINTED BLUE
- LOGIC INPUT:
  - LOGIC "0" (BIT OFF) \_\_\_\_\_ -0.3 TO +0.8 V
  - LOGIC "1" (BIT ON) \_\_\_\_\_ +2.0 TO +5.0 V

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
	1	ORIGINAL RELEASE	3/22/16	
	A1	ECN # 17-0040	3/07/17	
	A2	ECN # 24-0096	4/25/24	



**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 ±0.005

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 ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>B. Thomas</i>		3/22/16	PRODUCT FEATURE DTA-0R5G4G-60-CD-1-OPT12VDC			
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27029331	REV. A2
ISSUED			SCALE N:S		SHEET 1 OF 1	