

## DESCRIPTION:

PMI MODEL NUMBER DTA-12G26G5-60-10D 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 12 TO 26.5 GHz. THIS MODEL IS OFFERED IN A SLIM LINE HOUSING MEASURING ONLY 0.5" HEIGHT.

## SPECIFICATIONS:

- FREQUENCY: \_\_\_\_\_ 12 GHz TO 26.5 GHz
- MEAN ATTENUATION RANGE: \_\_\_\_\_ 60 dB
- INSERTION LOSS: \_\_\_\_\_ 8.0 dB TYP
- VSWR: \_\_\_\_\_ 2.2 :1 MAX
- FLATNESS UP TO:
  - 20 dB \_\_\_\_\_  $\pm 1.5$  dB TYP
  - 40 dB \_\_\_\_\_  $\pm 2.0$  dB TYP
  - 60 dB \_\_\_\_\_  $\pm 5.0$  dB TYP
- ACCURACY OF ATTENUATION:
  - 0 dB TO 20 dB \_\_\_\_\_  $\pm 1.0$  dB TYP
  - 20 dB TO 40 dB \_\_\_\_\_  $\pm 1.5$  dB TYP
  - 40 dB TO 60 dB \_\_\_\_\_  $\pm 2.0$  dB TYP
- MINIMUM ATTENUATION STEP: \_\_\_\_\_ 0.06 dB
- OPERATING POWER: \_\_\_\_\_ 20dBm TYP
- 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: \_\_\_\_\_ PAINTED BLUE
- 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       | 2dB              |
| 2       | 1dB              |
| 3       | 0.5dB            |
| 4       | 0.25dB           |
| 5       | GND              |
| 6       | 0.13 dB          |
| 7       | 0.06 dB (LSB)    |
| 8       | GND              |
| 9       | Not Used         |
| 10      | Not Used         |
| 11      | +12VDC           |
| 12      | 32dB (MSB)       |
| 13      | 16dB             |
| 14      | 8dB              |
| 15      | 4dB              |

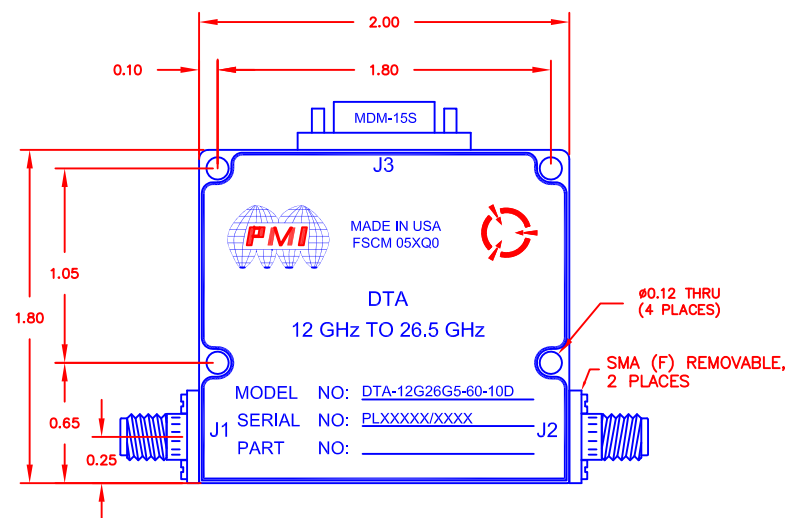
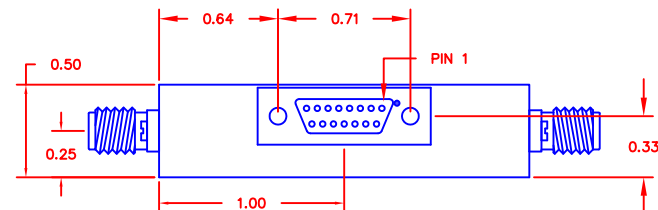
## ENVIRONMENTAL RATINGS:

- TEMPERATURE: \_\_\_\_\_ -40°C TO +85°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  $\pm 0.020$   
X.XXX  $\pm 0.010$

| REVISIONS |      |                 |          |          |
|-----------|------|-----------------|----------|----------|
| ZONE      | REV. | DESCRIPTION     | DATE     | APPROVED |
|           | A1   | INITIAL RELEASE | 02/19/19 |          |



PMI CONFIDENTIAL AND PROPRIETARY

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| APPROVALS |     | DATE     | TITLE              |  |  | SIZE  | FSCM NO. | DWG NO.  | REV.   |
|-----------|-----|----------|--------------------|--|--|-------|----------|----------|--------|
| DRAWN     | PJK | 6/17/14  | PRODUCT FEATURE    |  |  | A     | 05XQ0    | 27036340 | A1     |
| CHECKED   | SJR | 02/19/19 | DTA-12G26G5-60-10D |  |  |       |          |          |        |
| ISSUED    |     |          |                    |  |  | SCALE | N:S      | SHEET    | 1 OF 1 |