## DESCRIPTION:

PMI MODEL NUMBER DTA-2G18G-60-CD-1-OPT618 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 6.0 TO 18.0 GHz.

| REVISIONS | | | | |
|---|---|---|---|---|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| | – | PRELIMINARY | 6/7/16 | |
| | | | | |
| | | | | |

## SPECIFICATIONS:

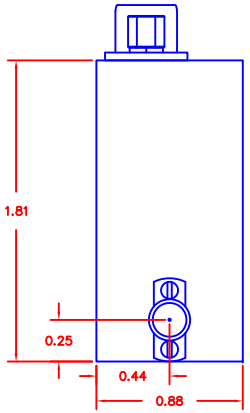
- FREQUENCY: ..... 6.0 TO 18.0 GHz
- MEAN ATTENUATION RANGE ..... 60dB
- INSERTION LOSS ..... 4.5 dB MAX
- VSWR: ..... 2.0 :1 MAX
- FLATNESS UP TO
  - 20 dB ..... ±1.0 dB TYP
  - 40 dB ..... ±1.25 dB TYP
  - 60 dB ..... ±3.0 dB TYP
- ACCURACY OF ATTENUATION
  - 0 dB TO 20 dB ..... ±1.0 dB TYP
  - 20 dB TO 40 dB ..... ±1.5 dB TYP
  - 40 dB TO 60 dB ..... ±2.0 dB TYP
- MINIMUM ATTENUATION STEP ..... 0.06 dB
- 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 @ 100mA MAX
  -15V @ 100 mA MAX
- CONNECTORS ..... 2 SMA & 15 PIN D-SUB Shipped with Mating D-SUB
- WEIGHT ..... 3.0 oz (85 gm) Approximate
- FINISH ..... PAINTED GREY
- LOGIC INPUT
  LOGIC "0" (BIT OFF) ..... -0.3 to +0.8V
  LOGIC "1" (BIT ON) ..... +2.0 to +5.0V

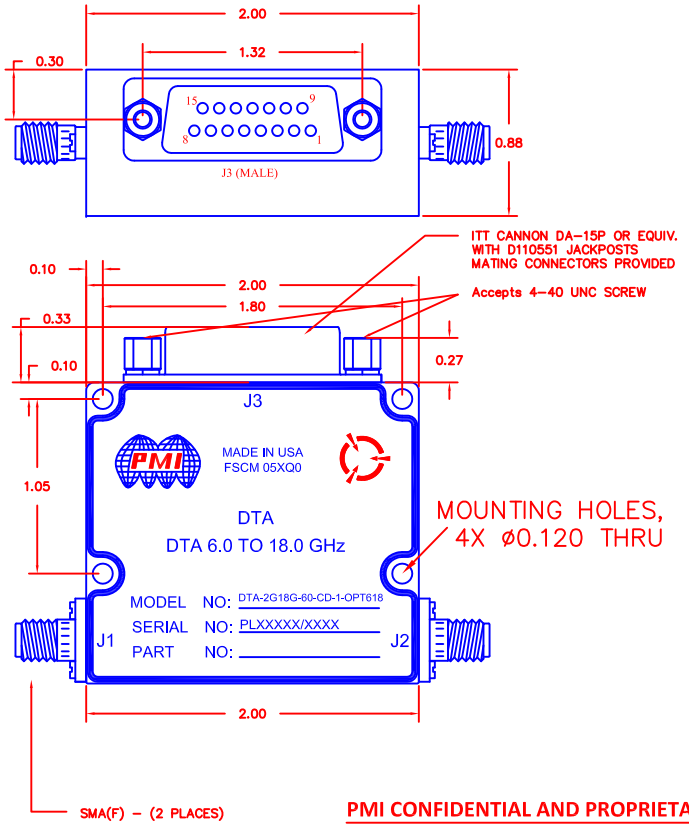
## ENVIRONMENTAL RATINGS:

- 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

| 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) |




PMI CONFIDENTIAL AND PROPRIETARY

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

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| APPROVALS | DATE |
|---|---|
| DRAWN EMF | 6/7/16 |
| CHECKED | |
| ISSUED | |

TITLE: PRODUCT FEATURE
DTA-2G18G-60-CD-1-OPT618

| SIZE | FSCM NO. | DWG NO. | REV. |
|---|---|---|---|
| A | 05XQ0 | PRELIMINARY | – |

SCALE N:S SHEET 1 OF 1