

CDAT-0.2G6G-95-7 is an digital controlled attenuator that operates over the 0.2 to 6.0 GHz frequency range. This model utilizes 7 bits control, the corresponding attenuation is 95 dB.

Features:

- Wide Bandwidth
- Fast Response
- Low VSWR
- Miniature Size

Specifications:

Frequency Range: 0.2-6.0 GHz
 Attenuation Range: 95 dB Max
 Insertion Loss: 7.0 dB Typ, 8.0 dB Max
 Attenuation Flatness: +/-0.50dB 1-7dB
 +/-1.00dB 8-11dB
 +/-1.25dB 12-95dB
 VSWR: 1.6:1 Typ, 2.0:1 Max
 Control Bits: 7 bits
 Least Significant Bit (LSB): 1 dB
 Control Logic: TTL
 Power Handling: +20 dBm CW Max
 Power Supply: +5 V @ 40 mA Typ
 Switching Time: 1 us Max

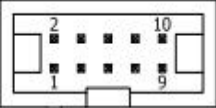
Environmental Ratings:


Temperature: -45°C to +85 °C Operating
 -55 °C to +125 °C Non-Operating
 Vibration: MIL-STD-202F, Method 204D Cond. B
 Altitude: MIL-STD-202F, Method 105C Cond. B
 Temperature Cycle: MIL-STD-202F, Method 107D Cond. A

Mechanical Specifications:

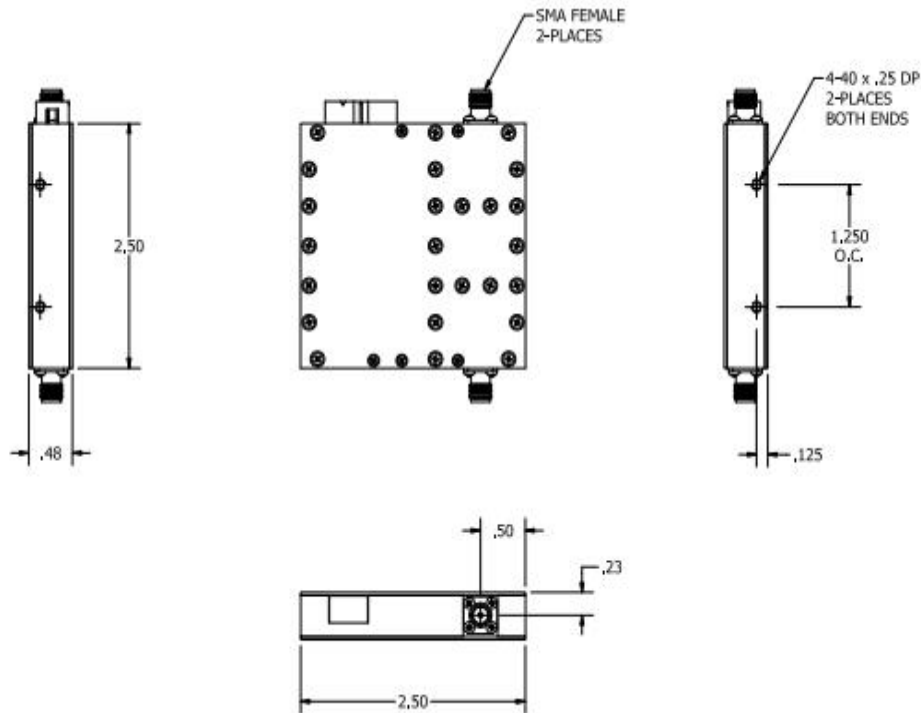
| Parameter | Specification |
|----------------------|-----------------------|
| Dimensions WxHxD | 2.50X2.50X0.48 inches |
| RF Connectors In/Out | SMA-Female |
| DC Connector | 30310-6002HB |
| Material | Aluminum |

DC Connector PIN Assignment:

| Pin | Function | Pin Definition |
|-----|-----------|---|
| 1-7 | Bit1-Bit7 |  |
| 8 | NC | |
| 9 | +5 V | |
| 10 | GND | |
| | | |

| Digital Control PIN Attenuators CDAT-0.2G6G-95-7 | | | |
|---|-------------------|----------------------|---|
| DRAWN: | DWG NO.: | REV CODE: Rev.1.0 |  www.connphy.com sales@connphy.com |
| CHECKRD: | DATE: 08/07/15 | SHEET : 1 OF 2 | |
| ISSUED: | SIZE: A | SCALE : N / A | Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE. |

Mechanical Outline (Inches):



Truth Table :


| Control TTL Input for 6 bits resolution | | | | | | | Attenuation |
|---|-------|-------|-------|-------|-------|-------|-------------|
| Bit 7 | Bit 6 | Bit 5 | Bit 4 | Bit 3 | Bit 2 | Bit 1 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | Reference |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1.0 dB |
| 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2.0 dB |
| 0 | 0 | 0 | 0 | 1 | 0 | 0 | 4.0 dB |
| 0 | 0 | 0 | 1 | 0 | 0 | 0 | 8.0 dB |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | 16.0 dB |
| 0 | 1 | 0 | 0 | 0 | 0 | 0 | 32.0 dB |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 32.0 dB |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 95.0 dB |

Environmental Ratings:

| | |
|--------------------|--|
| Temperature: | -45°C to +85 °C Operating -55 °C to +125 °C Non-Operating |
| Vibration: | MIL-STD-202F, Method 204D Cond. B |
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Digital Control PIN Attenuators

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| | | | |
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