

**CDAT-2M4G-63-6** is an digital controlled attenuator that operates over the 2 MHz to 4 GHz frequency range. This model utilizes 6 bits control, the corresponding attenuation is 0-63 dB.

Features:

- Very wide band operation 2 MHz-4 GHz
- 63db attenuation range
- Low step and accumulated error

### Specifications:

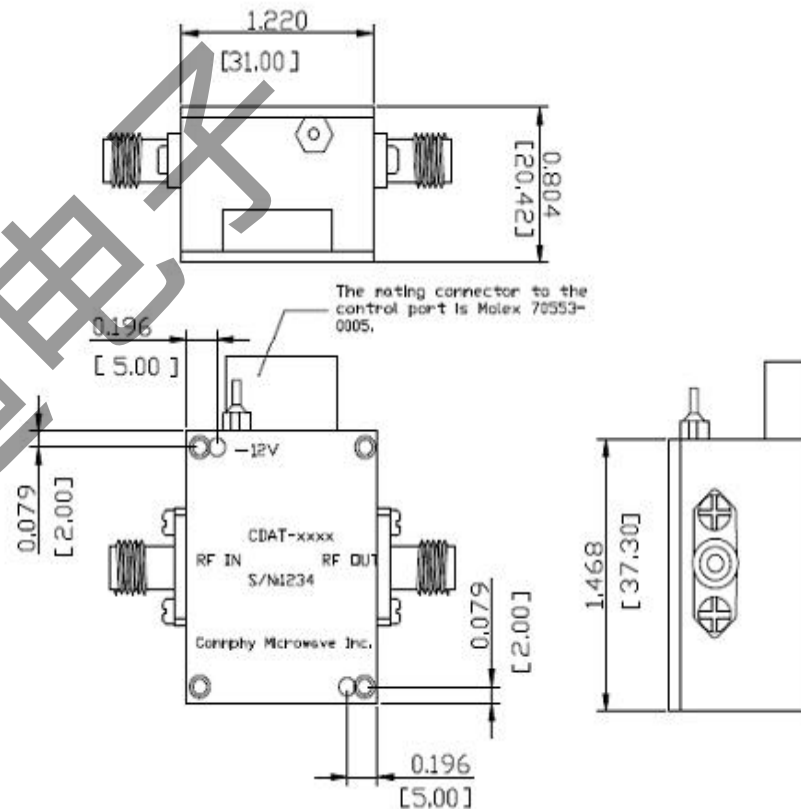
|                        |   |
|------------------------|---|
| Frequency Range:       | 2 MHz-4 GHz   |
| Attenuation Range:     | 0 to 63 dB  |
| Insertion Loss:        | 6.5 dB Max  |
| Accuracy:              | +/- 0.3 + 3% of attenuation setting    0-15 dB<br>+/- 0.3 + 5% of attenuation setting    16-63 dB |
| VSWR:                  | 2.0:1 Max   |
| Control bits:          | 6 Bit   |
| Step:                  | 1,2,4,8,16,32 dB  |
| Control Logic:         | TTL high on   |
| Operating Input Power: | +27 dBm CW Typ.   |
| DC voltage:            | -12 V @50 mA  |
| Connector:             | SMA female  |
| Switching speed:       | 90 ns Typ   |


Notes:Attenuation is failsafe to "0" setting in the absence of a control voltage as long as the -12 V is applied.Application of voltage (+) to a particular cell causes it to switch to the attenuate position. These levels are compatible with TTL levels, The threshold for a high is 2 V.

### Environmental Ratings:

|                    |  |
|--------------------|--|
| Temperature:       | -25°C to +71 °C Operating<br>-65 °C to +100 °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 Outline (inch/mm):



| Digital Controlled Attenuator<br>CDAT-2M4G-63-6 |                   |                      |   |
|---|-------------------|----------------------|---|
| DRAWN:  | DWG NO.:          | REV CODE:<br>Rev.1.0 | <br><a href="http://www.connphy.com">www.connphy.com</a><br><a href="mailto:sales@qiidao.com">sales@qiidao.com</a> |
| CHECKRD:  | DATE:<br>08/07/15 | SHEET :<br>1 OF 1    |   |
| ISSUED:   | SIZE:<br>A        | SCALE :<br>N / A     | Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.   |