

**CMC-8G10G-3836-S** is a wideband medium power amplifier providing up to 36 dBm and a gain of 38 dB. The compact size and modularity makes it ideal for a wide range of applications.

**Features:**

- Frequency Range: 8.0 to 10.0 GHz
- P1dB: 36 dBm Typ
- Flat Small Signal Gain: 38 dB Typ
- Small size, low cost
- Unconditionally Stable

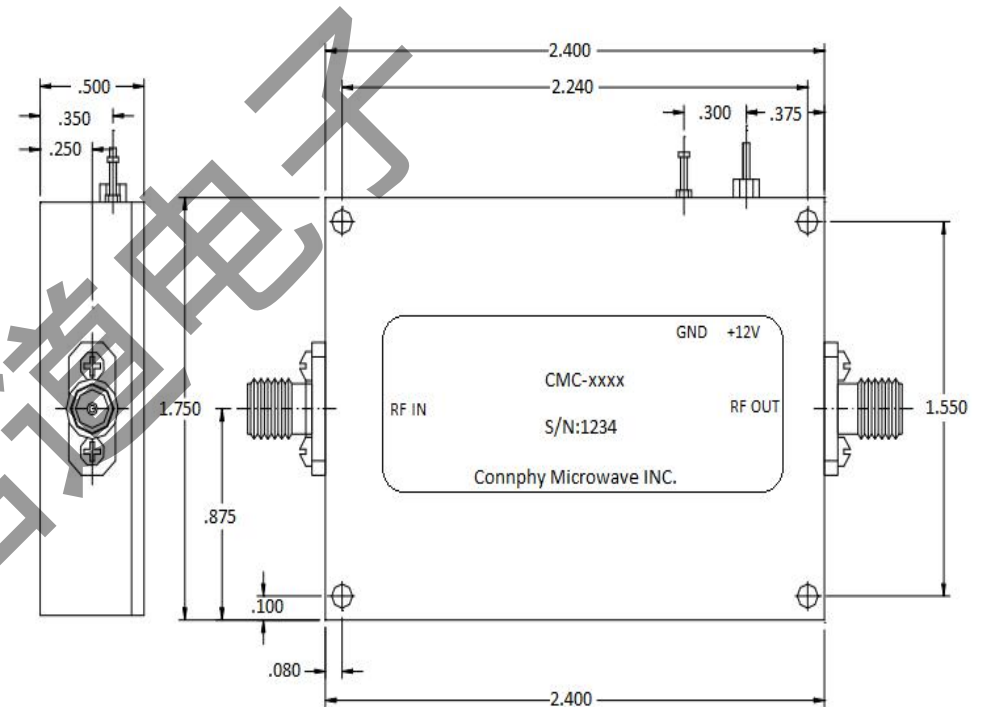
**Specifications:**


|                        |                        |
|------------------------|------------------------|
| Frequency:             | 8.0-10.0 GHz           |
| Gain:                  | 38 dB Typ ,35 dB Min   |
| Gain Flatness:         | ±1.5 dB Max            |
| Noise Figure@25°C:     | 6.0 dB Typ, 8.0 dB Max |
| Output P1dB:           | 36 dBm Typ, 35 dBm Min |
| Output IP3 :           | 43 dBm Typ             |
| Non-Harmonic Spurious: | -60 dBc Typ            |
| Reverse Isolation:     | 60 dB Typ              |
| VSWR Input:            | 1.6:1 Typ,2.0:1 Max    |
| VSWR Output:           | 1.6:1 Typ,2.5:1 Max    |
| DC Voltage:            | +8 V to +10 V DC       |
| DC Supply Current:     | 3300 mA Typ            |
| RF Connector:          | SMA female             |

**Environmental Ratings:**

|                    |  |
|--------------------|--|
| Temperature:       | -40°C to +75 °C Operating<br>-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 Outline(Inches) :**



| Medium Power Amplifier<br>CMC-8G10G-3836-S |                   |                      |   |
|--|-------------------|----------------------|---|
| 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>12/10/15 | SHEET :<br>1 OF 1    |   |
| ISSUED:                                    | SIZE:<br>A        | SCALE :<br>N / A     |   |
|  |                   |                      | Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.   |