

## QDA-8000-12000-101.5-0.5

8~12GHz, 101.5dB, 0.5dB

### Features:

- \* Broadband
- \* High Dynamic Range

### Applications:

- \* Wireless
- \* Transmitter
- \* Laboratory Test
- \* Radar

### Electrical

|                       |                                            |
|-----------------------|--------------------------------------------|
| Frequency:            | 8~12GHz                                    |
| Insertion Loss:       | 21dB max.                                  |
| Attenuation Range:    | 101.5dB                                    |
| Step:                 | 0.5dB                                      |
| Attenuation Accuracy: | $\pm(0.4+5\%$ of attenuation setting) max. |
| VSWR:                 | 2 max.                                     |
| Switching Time:       | 200ns max.                                 |
| Input IP3:            | 40dBm min.                                 |
| Input Power:          | 25dBm max.                                 |
| Voltage/Current:      | -5V/200mA max.                             |
| Control:              | TTL                                        |

### Mechanical

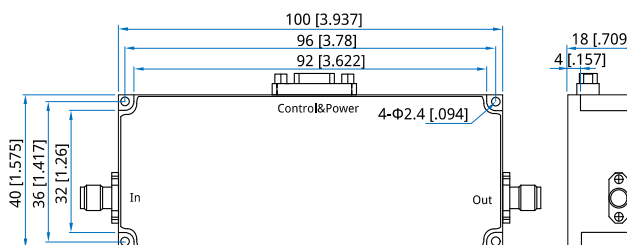
|                                              |                                    |
|----------------------------------------------|------------------------------------|
| Size*1:                                      | 100*40*18mm<br>3.937*1.575*0.709in |
| RF Connectors:                               | SMA Female                         |
| Power Supply & Control Interface Connectors: | J30J-15ZKP                         |
| Mounting:                                    | 4- $\Phi$ 2.4mm through-hole       |

[1] Exclude connectors.

### Environmental

|                            |            |
|----------------------------|------------|
| Operating Temperature:     | -40~+85°C  |
| Non-operating Temperature: | -55~+125°C |

### Outline Drawings



Unit: mm [in]

Tolerance:  $\pm 0.2$ mm [ $\pm 0.008$ in]

### Pin Numbering

| Pin | Function    | Pin | Function   |
|-----|-------------|-----|------------|
| 1   | -5V         | 9   | 16dB       |
| 2   | GND         | 10  | 30dB       |
| 3   | DGND        | 11  | 30dB       |
| 4   | 0.5dB (LSB) | 12  | 10dB (MSB) |
| 5   | 1dB         | 13  | NC         |
| 6   | 2dB         | 14  | NC         |
| 7   | 4dB         | 15  | NC         |
| 8   | 8dB         |     |            |

### How To Order

[QDA-8000-12000-101.5-0.5](#)

Customization is available upon request.