

## QDA-18000-40000

### 18~40GHz

#### Features:

- \* Broadband
- \* High Dynamic Range

#### Applications:

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

#### Electrical

|                             |                                 |
|-----------------------------|---------------------------------|
| Frequency:                  | 18~40GHz                        |
| Insertion Loss:             | 9dB max.                        |
| Attenuation Flatness:       | ±3dB max.                       |
| Digital Control:            | TTL                             |
| Step:                       | 0.5, 1, 2, 4, 8, 16dB           |
| Attenuation Range:          | 0~60dB                          |
| Attenuation Accuracy:       | ±6% of attenuation setting max. |
| Switching Time:             | 200nS max.                      |
| Input VSWR:                 | 2.5 max.                        |
| Output VSWR:                | 2.5 max.                        |
| Voltage:                    | +5V/-5V DC                      |
| Current:                    | 200mA typ.                      |
| Input Power Without Damage: | 27dBm                           |

#### Mechanical

|                                              |                                   |
|----------------------------------------------|-----------------------------------|
| Size*1:                                      | 38*20*12mm<br>1.496*0.787*0.472in |
| RF Connectors:                               | 2.92mm Female                     |
| Power Supply & Control Interface Connectors: | J30J-9ZKP or J30J-15ZKP           |
| Housing Material:                            | Aluminum                          |
| Mounting:                                    | 4-Φ2.8mm through-hole             |

[1] Exclude connectors.

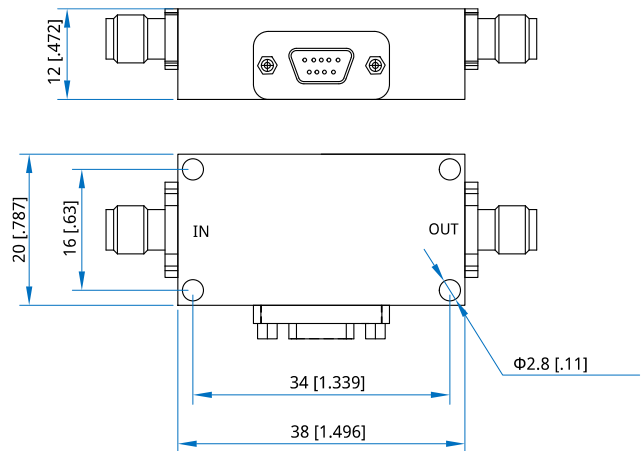
#### Environmental

|                            |           |
|----------------------------|-----------|
| Operating Temperature:     | -40~+60°C |
| Non-operating Temperature: | -55~+70°C |

#### Pin Numbering

| Pin | Function | Pin  | Function |
|-----|----------|------|----------|
| 1   | +5V      | 4    | LSB      |
| 2   | -5V      | 5~15 | -        |
| 3   | GND      |      |          |

#### Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

#### How To Order

##### QDA-W-X-Y-Z

W: Start Frequency in MHz

X: Stop Frequency in MHz

Y: Maximum attenuation in dB

Z: Step in dB

#### Examples:

To order an attenuator, 20~30GHz, 0~30dB attenuation, 0.5dB step, specify QDA-20000-30000-30-0.5.

Customization is available upon request.