

## NFA4010

### DC~40GHz, 10W

#### Features:

- \* Low VSWR
- \* High Attenuation Flatness

#### Applications:

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

#### Electrical

|                  |   |
|------------------|---|
| Frequency:       | DC~40GHz  |
| Attenuation:     | 1~10dB, 20dB, 30dB, 40dB  |
| Impedance:       | 50Ω   |
| Average Power*1: | 10W@25°C max.   |
| Peak Power:      | 100W (5μS pulse width, 5% duty cycle)@1~30dB<br>200W (5μS pulse width, 1.25% duty cycle)@40dB |

[1] Derated linearly to 0.5W@125°C.

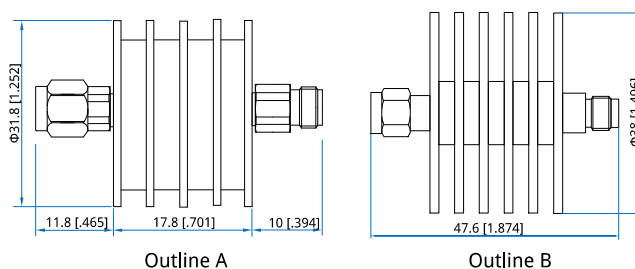
#### Mechanical

|                         |                              |
|-------------------------|------------------------------|
| RF Connectors:          | 2.92mm                       |
| Housing:                | Aluminum                     |
| Dielectric:             | PEI                          |
| Outer Conductor:        | Stainless steel              |
| Male Inner Conductor:   | Gold plated brass            |
| Female Inner Conductor: | Gold plated beryllium copper |

#### Environmental

Temperature: -55~+85°C

#### Outline Drawings



Unit: mm [in]

Tolerance: ±2mm [±0.08in]

#### Attenuation Accuracy and VSWR

| Frequency (GHz) | Attenuation Accuracy (±dB) vs. Attenuation (dB) |           |           |           | VSWR (max.)    |
|-----------------|---|-----------|-----------|-----------|----------------|
|                 | 1~10  | 20        | 30        | 40        |                |
| DC~40           | -0.7/+1.0                                       | -0.7/+1.0 | -0.7/+1.0 | -1.0/+2.0 | 1.25, 1.4@40dB |

#### How To Order

##### NFA4010-X-Y-Z

X: Frequency in GHz

Y: Attenuation in dB (Outline A - 1~30dB, Outline B - 40dB)

Z: Connector type

Connector naming rules:

K - 2.92mm

Examples:

To order an attenuator, DC~40GHz, 2.92mm male to 2.92mm female, 3dB attenuation, specify NFA4010-40-3-K.