

# NFA4005

## DC~40GHz, 5W

- |                                                               |                                                                                     |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Features:</b><br>* Low VSWR<br>* High Attenuation Flatness | <b>Applications:</b><br>* Wireless<br>* Transmitter<br>* Laboratory Test<br>* Radar |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------|

### Electrical

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

[1] Derated linearly to 0.5W@125°C.

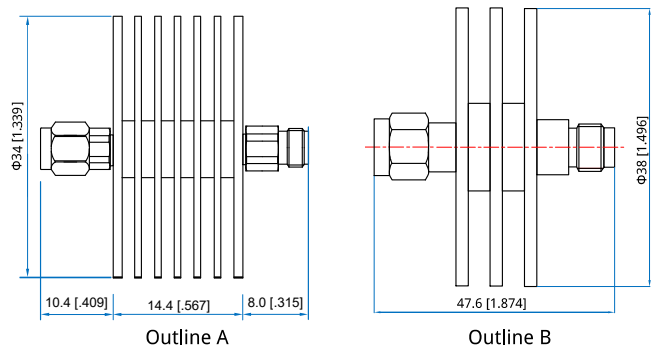
### Mechanical

|                         |                              |
|-------------------------|------------------------------|
| 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, 1.40@40dB |

### How To Order

**NFA4005-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 NFA4005-40-3-K.