

## NDA-4000-32000-63.5-0.5

4~32GHz, 63.5dB, 0.5dB

### Features:

- \* Broadband
- \* High Dynamic Range

### Applications:

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

### Electrical

|                       |                                                         |
|-----------------------|---------------------------------------------------------|
| Frequency:            | 4~32GHz                                                 |
| Insertion Loss:       | 10dB max.                                               |
| Attenuation Flatness: | ±1dB typ. @20dB<br>±2dB typ. @40dB<br>±3dB typ. @63.5dB |
| Step:                 | 0.5dB                                                   |
| Attenuation Range:    | 0~63.5dB                                                |
| Attenuation Accuracy: | ±2dB typ. @0~63.5dB                                     |
| VSWR:                 | 2 max.                                                  |
| Voltage/Current:      | +3.3V @30mA max.<br>-3.3V @30mA max.                    |
| Input Power:          | +25dBm max.                                             |

### Mechanical

|                                              |                                      |
|----------------------------------------------|--------------------------------------|
| Size <sup>*1</sup> :                         | 34*18*12mm<br>1.339*0.709*0.472in    |
| Switching Time:                              | 200ns                                |
| RF Connectors:                               | 2.92mm Female                        |
| Power Supply & Control Interface Connectors: | J30J-15ZKP                           |
| Housing Material:                            | Nickel Plated                        |
| Mounting:                                    | 4-Φ2.7 through-hole                  |
| Logic Input:                                 | On: 1( +1.2~3.3V)<br>Off: 0( 0~0.8V) |

[1] Exclude connectors.

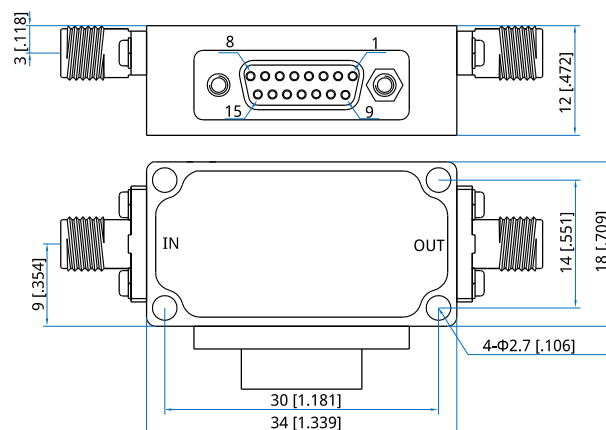
### Pin Numbering

| Pin | Function | Pin   | Function |
|-----|----------|-------|----------|
| 1   | +3.3V    | 7     | C4       |
| 2   | COM      | 8     | C5       |
| 3   | -3.3V    | 9     | C6       |
| 4   | C1       | 10    | C7       |
| 5   | C2       | 11-15 | NC       |
| 6   | C3       |       |          |

### Environmental

|                            |            |
|----------------------------|------------|
| Operating Temperature:     | -45~+85°C  |
| Non-operating Temperature: | -55~+125°C |

### Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

### Logic Table

| State | C1 | C2 | C3 | C4 | C5 | C6 | C7 | Att.         |
|-------|----|----|----|----|----|----|----|--------------|
| -     | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 63.5dB       |
| 1     | 1  | 0  | 0  | 0  | 0  | 0  | 0  | Reference IL |
| 2     | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0.5dB        |
| 3     | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 1dB          |
| 4     | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 2dB          |
| 5     | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 4dB          |
| 6     | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 8dB          |
| 7     | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 16dB         |
| 8     | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 32dB         |
|       |    |    |    |    |    |    |    | 63.5dB       |

### How To Order

[NDA-4000-32000-63.5-0.5](#)

Customization is available upon request.