



# NoiseSorb NS1000 Series

## NS1000Q

### EMI Noise Suppression Absorber

#### EMI NOISE SUPPRESSION ABSORBER:



NoiseSorb NS1000 series is a kind of thin near field noise suppression absorber product used for EMI control in electronic devices. The absorber has high magnetic permeability and good temperature stability. It is used to suppress unwanted energy coupling, resonances or surface currents causing EMI issues.

NS1000Q is a new product added to NS1000 series with ultra high permeability of 250 at 1MHz. With the higher permeability and higher loss, it provides even better absorbing performance from 20MHz to 6GHz.

#### FEATURES AND BENEFITS

- High magnetic permeability
- RoHs, Halogen Free
- Outstanding temperature stability

#### MARKETS

- Tablets & Smartphone
- Automotive
- Medical equipment
- Networking equipment
- Desktop computers

#### SPECIFICATIONS

| ITEM                       | UNIT                                         | TYPICAL VALUE            |
|----------------------------|----------------------------------------------|--------------------------|
| Initial permeability @1MHz |                                              | 250                      |
| Effective frequency range  |                                              | 20MHz to 6GHz            |
| Surface resistivity        | $\Omega/\text{cm}^2$                         | $>10^5$                  |
| Operation Temperature      | $^{\circ}\text{C}$                           | -40 - 105                |
| Thickness                  | mm                                           | 0.05/0.1/0.2/0.3/0.4/0.5 |
| Hazardous Substance        | Compliant with RoHS (Directive 2011/65/EU)   |                          |
| Shelf Life                 | 12 months at 23 $^{\circ}\text{C}$ /60% R.H. |                          |

Note: Data for design engineer guidance only. Observed performance varies in application. Engineers are reminded to verify the material in application

#### APPLICATIONS

- NoiseSorb NS1000 series absorber can be placed over CPUs, main chip sets and other memory, and power IC devices to suppress radiated noise causing interference with RF functions, crosstalk, or SAR emissions.

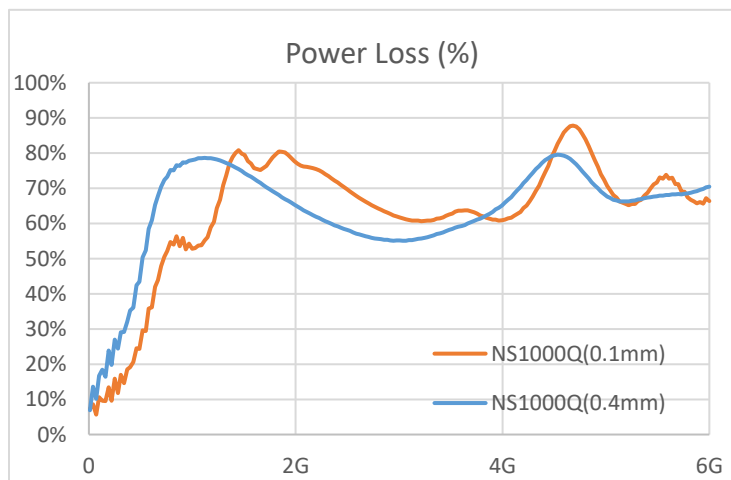
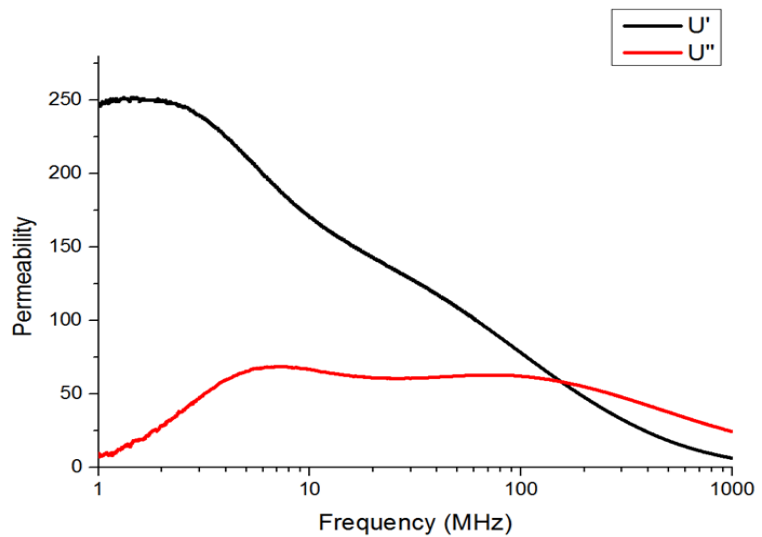
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### EMI Noise Suppression Absorber

- It can be used to suppress noise currents from circuit trace lines and flat cables that act like radiating antennas causing EMI problems and crosstalk issues.
- It can also be applied to high-speed transmission line; LCD displays and circuit board elements that are radiating energy and causing EMI issues.
- When placed within a cavity that is operating in the lower microwave frequencies, NoiseSorb NS1000 series has proven to be effective in damping resonances and reducing surface current.

#### PERMEABILITY

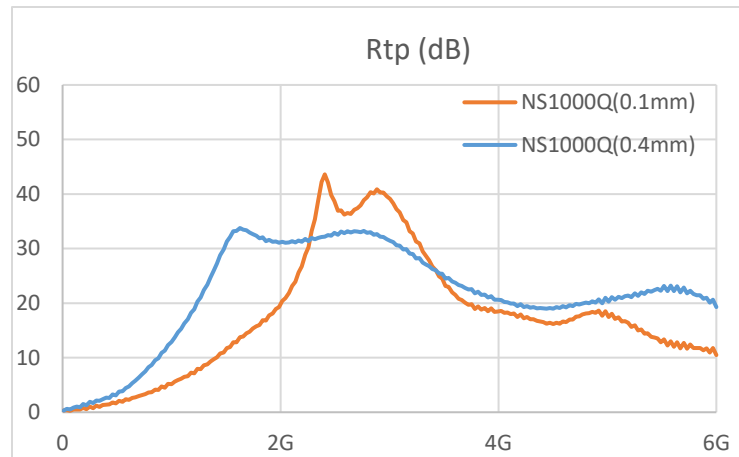




# NoiseSorb NS1000 Series

## NS1000Q

### EMI Noise Suppression Absorber



#### AVAILABILITY

- NS1000Q is available in standard size 300mmx300mm.
- NS1000Q can be supplied with or without PSA.
- Lamination with metal foil or protective film possible upon request.

USA: +1.866.928.8181

Europe: +49.8031.24600

Asia: +86.755.2714.1166

[www.laird.com](http://www.laird.com)



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