

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	Ω/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.



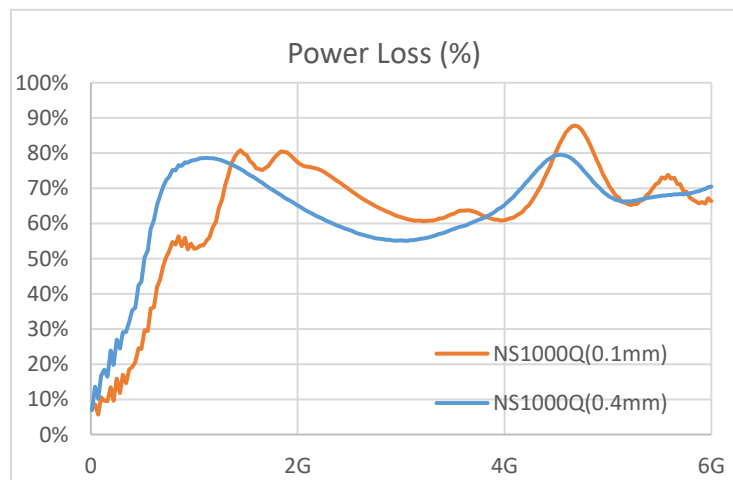
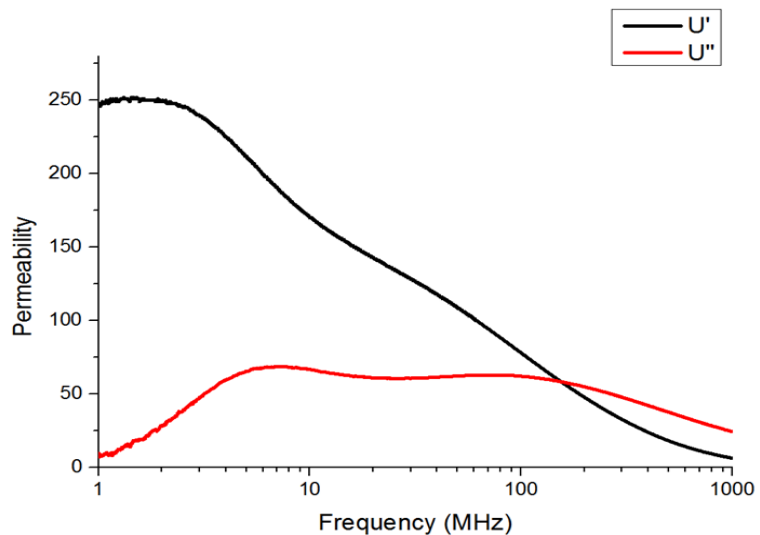
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- It can be used to suppress noise currents from circuit trace lines and flat cables that act like radiating antennas causing EMI problems and crosstalk issues.
- It can also be applied to high-speed transmission line; LCD displays and circuit board 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



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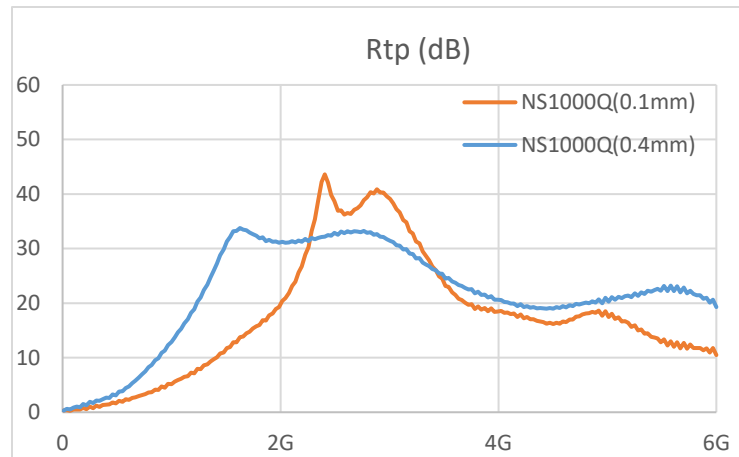
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AVAILABILITY

- 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.

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