NoiseSorb NS1000 Series

NS1000C / NS1000F / NS1000H

EMI Noise Suppression Absorber



EMI NOISE SUPPRESSION ABSORBER

NoiseSorb NS1000 series is an ultrathin 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.

NS1000 series include three sub-series NS1000C, NS1000F, and NS1000H. They cover wide range of thickness and permeability for selection, and can be customized to laminate with adhesive or cut into the dimension per request.

FEATURES AND BENEFITS

- High magnetic permeability
- Outstanding temperature stability
- High flexibility
- RoHS compliant
- Halogen-free per IEC-61249-2-21 standard
- Low outgassing

APPLICATIONS

- Tablets
- Automotive
- Cabinet applications
- Medical equipment
- Networking equipment
- Desktop computers
- Telecommunications cabinets

CHARACTERISTICS

ITEM	UNIT	TYPICAL VALUE
Initial permeability @1MHz		110 (NS1000C) 150 (NS1000F) 180 (NS1000H)
Effective frequency range		20MHz to 3GHz
Surface resistivity	Ω/sq	$>10^6$
Thermal conductivity	W/mK	1.0
Outgassing (TML/CVCM)*	%	0.2/0.02
Operation Temperature	℃	-40 - 105
Hazardous Substance	Compliant with RoHS (Directive 2011/65/EU)	
	Halogen-free (based on IEC-61249-2-21)	
Shelf Life	12 months at 23℃/60% R.H.	

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

**Outgassing data per ASTM E595-07; criteria for acceptability is 1.00% TML and 0.10% CVCM.

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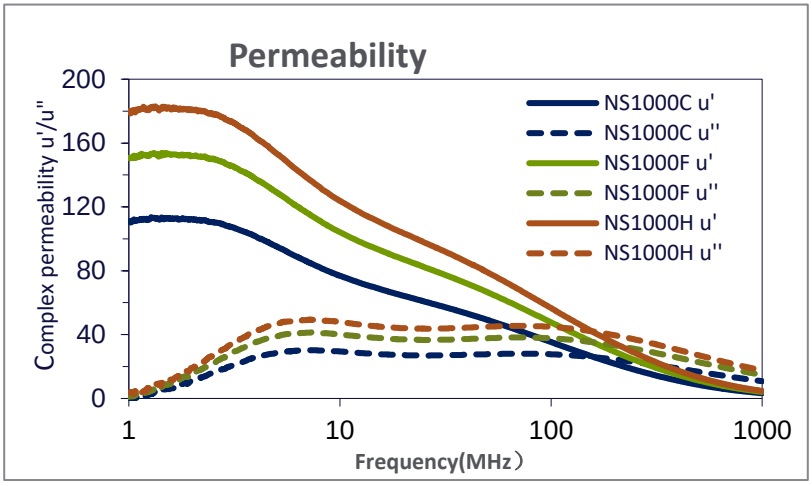
PERMEABILITY



ORDERING INFORMATION

1	2	3	4	5	6	7
N	S	1	0	2	0	H

3rd digit:	4th to 6th digits:	7th digit:
Series	**Thickness**	**Sub-series**
EX. 1=NS1000	EX. 005=0.05 mm	EX. C=NS1000C series
EX. 2=NS2000	EX. 010=0.10 mm	EX. F=NS1000F series
	EX. 020=0.20 mm	EX. H=NS1000H series

Available thicknesses are 0.05mm, 0.1mm, 0.2mm, 0.3mm, 0.4mm, and 0.5mm; with or without PSA lamination.

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.

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 lines, 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 currents.

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