



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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3M™ AB7000HF

Series EMI Absorber

Data Sheet

February 2009

Description	<p>3M™ AB7000HF Series EMI Absorber consists of a flexible polymer resin loaded with soft metal flakes. An acrylic pressure-sensitive adhesive allows for easy application.</p> <ul style="list-style-type: none">• Low Halogen version of AB7000 absorber. Meets guidelines set forth in IEC 61249-2-21.• Flexible, high permeability magnetic sheets• One-sided acrylic pressure sensitive adhesive• Easily die cut into complex shapes
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Agency Approvals & Self Certifications

RoHS 2002/95/EC



RoHS Compliant 2002/95/EC means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2002/618/EC, unless the substance is in an application that is exempt under RoHS. This information represents 3M's knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

Applications	<p>AB7000HF absorber is typically used for applications requiring EMI control and signal integrity improvement in the 50MHz to 10 GHz range. It is a broadband EMI absorber designed to work in near-field applications inside and around electronic devices and assemblies. Common applications include reduction of noise and crosstalk inside mobile electronics, reduction of crosstalk and EMI on ribbon cables and flex cables, reduction of radiated IC noise (applying absorber directly to the noisy IC), damping of radiation and oscillations inside shields and cavities, and increasing signal integrity on high speed data lines through crosstalk reduction.</p>
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Attenuation and Power Loss	<p>Many factors determine the true attenuation of an electromagnetic interference absorbing material, including shape and thickness, intimacy of substrate contact, smoothness of application surface, strength and frequency of the EMI signal, etc. Since AB7000HF absorber is a near field absorber, attenuation characteristics tend to be very application specific. Power loss characteristics are measured using a 5cm x 5cm square of AB7000HF absorber placed on a 50Ω microstrip line. The attenuation and noise dampening attained generally increases as the thickness of the material increases.</p>
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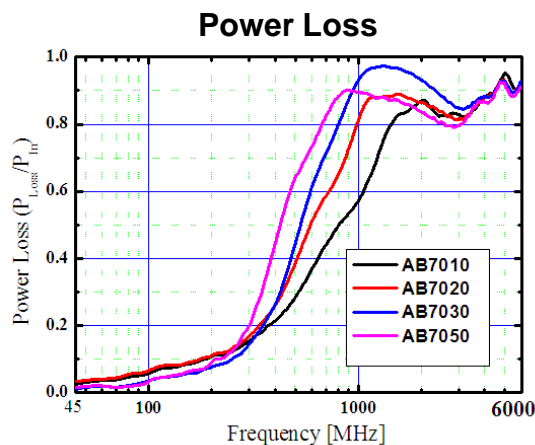
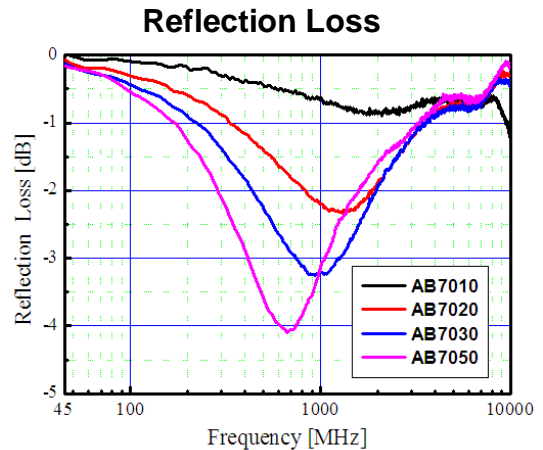
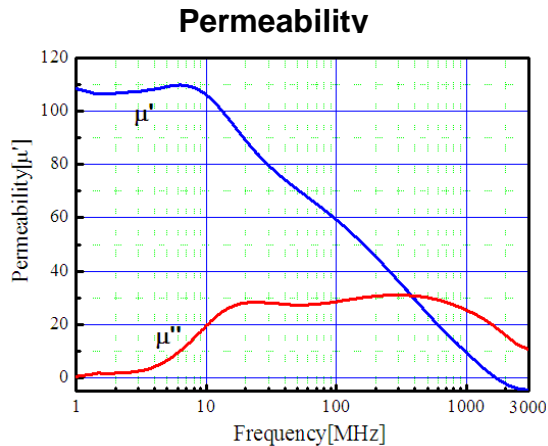
Typical Properties	<p>Not for specifications. Values are typical, not to be considered minimum or maximum. Properties measured at room temperature 73°F (~23°C) unless otherwise stated.</p>
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Physical	Property (Test Method)	Typical Value			
	Adhesive	Acrylic non-conductive pressure-sensitive adhesive (PSA)			
Type of Backing	Polymer resin with magnetic metal flake filler				
Product Number	AB7010HF	AB7020HF	AB7030HF	AB7050HF	
Backing Thickness	0.13mm	0.25mm	0.35mm	0.55mm	
Adhesive Thickness	0.03mm	0.05mm	0.05mm	0.05mm	
Standard packaging	210mm x 297mm				
Temperature Range	-25° to 85°C				
Surface resistivity (ASTM D-257)	1x10 ⁶ Ω(min)				
Initial Permeability ¹	110				
Typical Performance ²	Refer to S ₁₁ attenuation and power loss graphs				

Notes: 1. This value measured at 1MHz 3M TM K RD-EMC-AB-02. 2. Attenuation is measured by 7mm coaxial verification kit

3M™ AB7000HF Series EMI Absorber

under short fixed condition. Power loss is measured by a 50Ω microstrip line method. 3M™ K-RD-EMC-AB-01



Shelf Life & Storage	This product has a 5-year shelf life from date of manufacture when stored in a humidity controlled storage (10°C/50°F to 27°C/80°F and <75% relative humidity).
Availability	Please contact your local distributor; available from 3M.com/electrical [Where to Buy] or call 1-800-676-8381.
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