



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™ EMI Absorber AB6000, AB6000S, and AB6000G Series

Product Description

3M™ EMI Absorber AB6000, AB6000S, and AB6000G Series consists of an insulation layer, shielding layer, absorbing layer and non-conductive pressure-sensitive adhesive.

Features and Benefits

- Insulation Layer
- EMI Shielding Layer
- EMI Absorption Layer
- Pressure-sensitive Adhesive (PSA) Layer
- Supplied on a removable release liner for easy handling and die-cutting

Applications

The absorber is typically used for applications requiring both electromagnetic shielding performance and absorption function. It is useful for electrical devices for broadband radio frequency range (mobile phone, PDA, PC, BS/CS tuner, LAN, medical and military devices).

Common applications include attenuation of conduction and radiation noise suppression and filtering (FPCB and chips on circuit, high speed microprocessor) and resonant peak of enclosed cavities (EMI/ESD), and electric/ electronic/ RF components (IC/LSL, PCB, FPC, cable, oscillators, RF modules), mechanical bodies (metal can, frame, body, enclosure).

Attenuation and Power Loss

Many factors determine the true attenuation of electromagnetic shielding and absorbing material, including type and thickness of polymer, adhesive type, intimacy of substrate contact, smoothness of application surface, strength and frequency of the EMI signal, etc. However, using standard tests and fixtures, it is possible to determine a value for the attenuation.

Typical Physical Properties

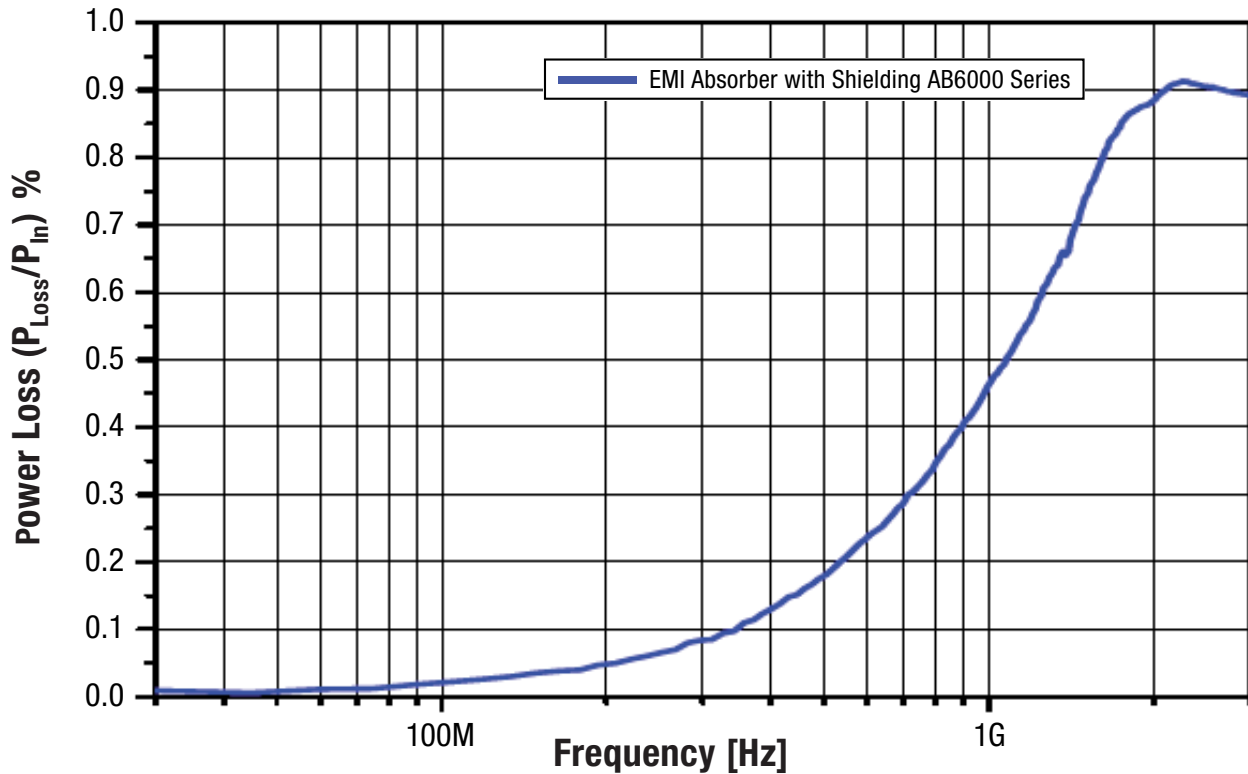
Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Property (Test Method)	Typical Value US units (metric)	
Color	AB6000G – Grey AB6000S – Silver	
Adhesive	Acrylic non-conductive pressure-sensitive	
Type of Backing	Metal shielding layer and Absorption layer	
Thickness	<u>AB6000S</u>	<u>AB6000G</u>
Total Thickness	4.13 mil (0.105 mm)	4.13 mil (0.105 mm)
Absorber Thickness	1.97 mil (0.050 mm)	1.97 mil (0.050 mm)
Frequency Range	10MHz – 18GHz	
Operating Temperature	-22 - 221°F (-30 - 105°C)	
Shielding Effectiveness ¹	Min 40db (30MHz – 1GHz)	
Adhesion Strength ²	8.8 oz/in (250gf/25mm)	

¹Test method ASTM D-4935.

²MIL-STD-202 Method 307 maintained at 5 psi (3,4 N/cm²) measured over in² surface area. Conductive particles in the adhesive provide the electrical path between the application substrate and foil backing.

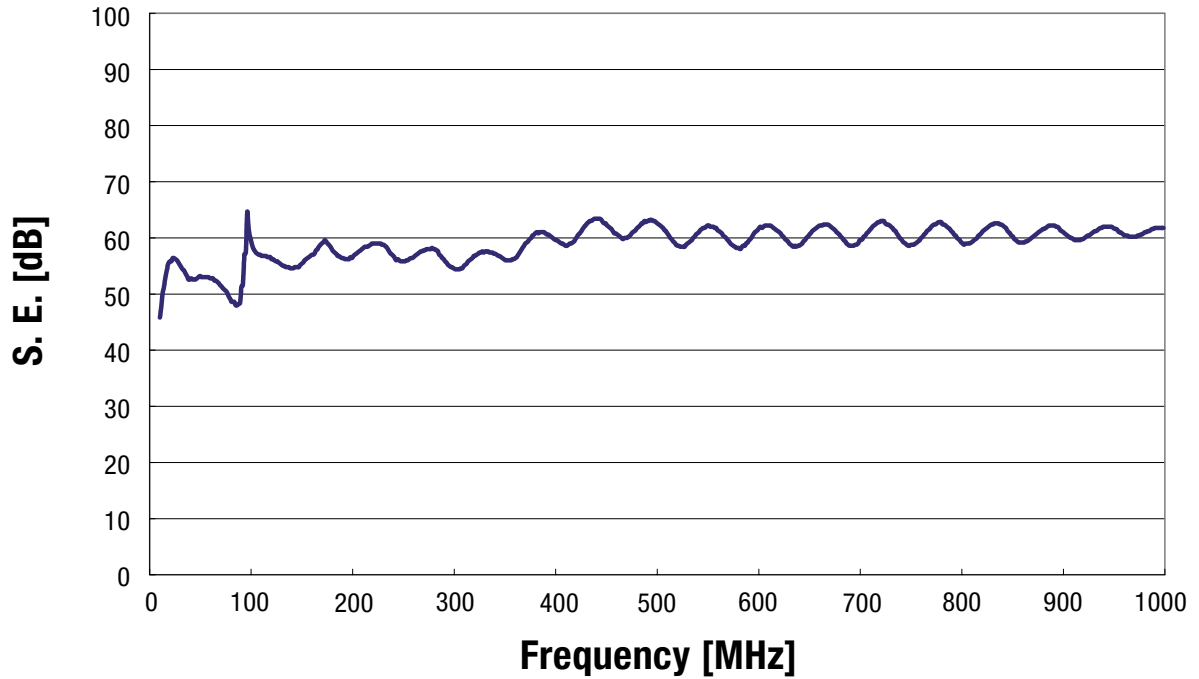
• Power Loss Property on Microstrip Line (50Ω)



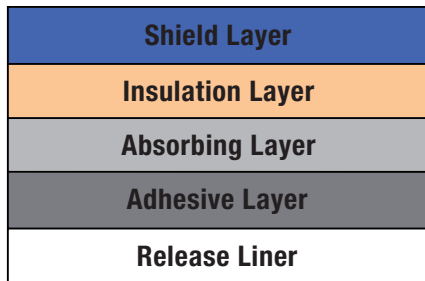
Typical Physical Properties (continued)

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

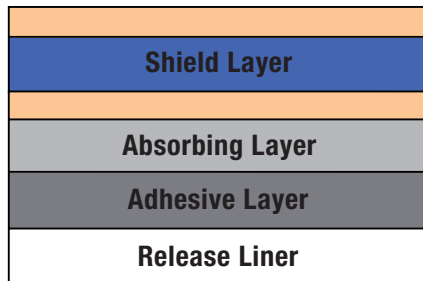
- **Shielding Effectiveness (SE)**



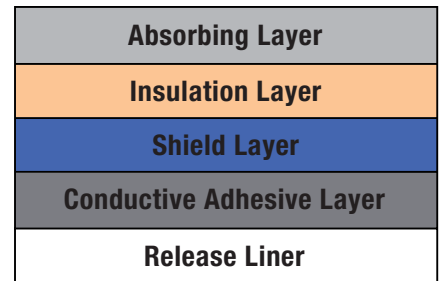
- **Structure**



AB6000 Series



AB6000S Series



AB6000G Series

Storage and Shelf Life

The shelf life of 3M™ EMI Absorber AB6000, AB6000S, and AB6000G Series is 12 months from the shipment date from the manufacturing location when stored in original packaging at 21°C (70°F) and 50% relative humidity.

Safety Data Sheet

Please consult Safety Data Sheet prior to use.

Regulatory

For regulatory information about this product, contact your 3M representative.

Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

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