

3M

EMI Absorber

AB-5000S

Data Sheet

Product Description

3M™ EMI Absorber AB-5000S Series consists of flexible, soft metal flakes filler in polymer resin with acrylic pressure sensitive adhesive. It is supplied on a removable liner for easy handling and die-cutting

3M EMI Absorber AB-5000S is available in sheets.

Applications

3M EMI Absorber AB-5000S is typically used for applications requiring electromagnetic absorbing performance. It is designed to suppress radiated noise from electrical devices for broadband radio frequency range.

Common uses include mobile phone (SAR reduction), computer, digital still camera, RF block, military equipments for radar avoidance and stealth performance.

Attenuation and Power Loss

Many factors determine the true attenuation of an electromagnetic absorbing material, including shape and thickness, 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 signal attenuation.

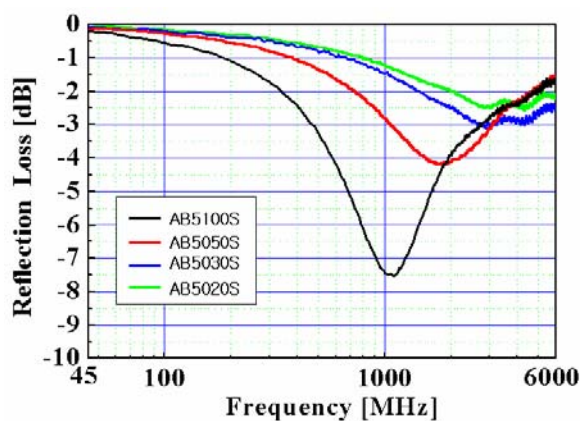
3M EMI Absorber AB-5000S typical attenuation range is dependent on thickness.

3M EMI Absorber AB 5000S Series — Typical Properties

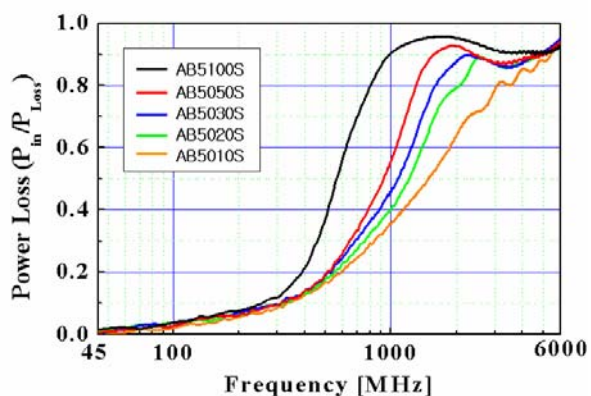
Properties	Typical Value				
Type of Backing	Polymer resin with metal flake filler				
Type of Adhesive	Acrylic non-conductive pressure sensitive adhesive (PSA)				
Product Number	AB5010S	AB5020S	AB5030S	AB5050S	AB5100S
Thickness ₁	0.10mm	0.20mm	0.30mm	0.50mm	1.00mm
Standard packaging	210mm x 297mm				
Temperature range	-25 ~ 85 °C				
Surface resistivity ₂	1x10 ⁶ Ω (min)				
Thermal conductivity	0.7 W/mK				
Tensile strength ₃	6.0MPa(min)				
Attenuation (S11 Reflection Loss) and Power Loss ₄	Refer to attached chart				

1. This value does not contain a double side adhesive tape thickness. Typical adhesive tape thickness is 50μm (AB5010S contains 30 adhesive)
2. Test method : ASTM D257
3. Test method : JIS K 6251
4. Attenuation measured by 7mm coaxial verification kit under short fixed condition. Power loss measured by 50Ω microstrip line.

Reflection



Power Loss



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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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