



HOZOX™ EMI absorption sheets and tape from Molex provide broadband EMI noise mitigation. The EMI absorber may be applied to a wide variety of electronic products, including: telecommunication equipment; RF and microwave devices; consumer electronics; mobile devices; IT and medical equipment.

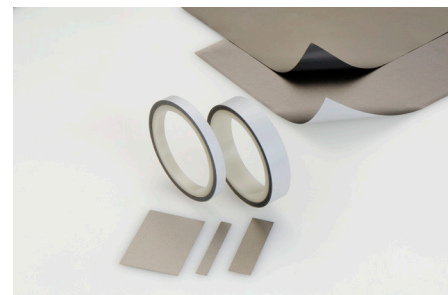
HOZOX achieves superior EMI noise mitigation through a unique layered design of magnetic and conductive/dielectric material. The magnetic layer's powder composite absorbs lower frequency electromagnetic energy, while the conductive layer's powder and high-loss dielectric resin absorb higher frequency electromagnetic energy.

HOZOX absorption sheets and tape are insulated on one side so they can be placed in contact with any low-power active components, such as digital or analog ICs. With a thickness of only 100 microns, the dual-layer structure gives a device manufacturer or electronics OEM the competitive advantage of mitigating radiated EMI noise in an ultra-broad spectrum.

HOZOX™ EMI Absorption Sheet and Tape

Standard A4 Sheet
(210mm x 297mm)

Tape-roll With Adhesive
(10mm or 20mm Width
x 5m Length)



Features and Benefits

Broadband high performance EMI noise absorption capabilities from 10MHz ~ 10GHz

Improved product performance by suppressing unwanted radiated emissions

Meet governmental EMC regulations worldwide

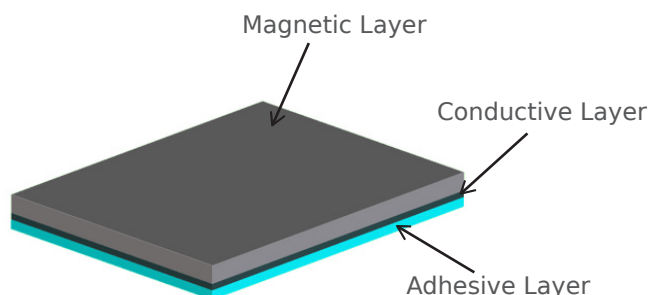
Thin structure (0.1mm*)

Can be applied to electronic devices with critical form factors and limited space

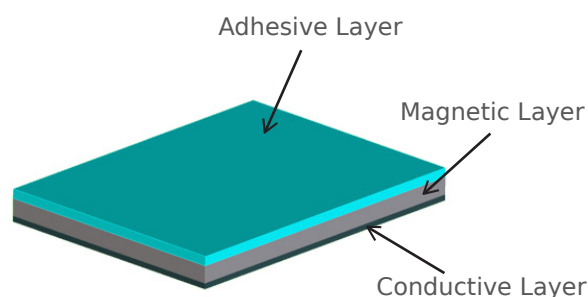
Customizable form and shape

Easily die-cut to fit specific configurations

Product Structure



Standard HOZOX structure



Optional HOZOX structure

The unique dual-layer structure of HOZOX absorbs both the MHz and GHz electromagnetic energy effectively to provide ultra wideband EMI noise mitigation.

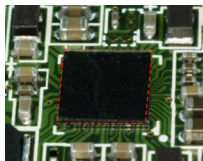
*Note: Not including adhesive layer

Markets and Applications



> Medical

- Flat-panel Flex Cable
- Radiology Equipment PCBs
- High-Speed Hubs, Switches and Servers



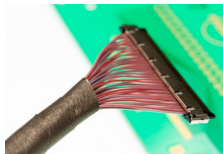
> IT Equipment

- CPU or IC Enclosures
- Wireless LAN Modules
- High-Speed Hubs, Switches and Servers



> Consumer Electronics

- Mobile Phones/Tablet PCs
- Wireless/Wearable Devices



> Telecommunications

- High-Performance Cables
- High-Speed Hubs, Switches and Servers

Typical Properties

Property	Value	Notes
Type of Adhesive	Double-sided adhesive tape	Acrylic non-conductive adhesive
Adhesive Layer	Default: Attached to Conductive Layer Optional: Attached to Magnetic Layer	
Thickness(mm)	0.1mm	Adhesive Layer not included
Product Packaging	210mm X 297mm (sheet), 20mm X 5m, 10mm X 5m (Tape)	
Permeability & Permittivity (magnetic layer only)	Refer to the Permeability and Permittivity graph on the right	
Temperature Range	-25 to +85 °C	
Flammability	UL94 V-0	Flame resistant adhesive layer not included
Environmental Compatibility	RoHS 2011/65/EU Compliant, Lead-free	
Volume Resistivity (Magnetic Layer)	10x10 ⁶ ohm Min	JIS K7194
Volume Resistivity (Conductive Layer)	1.25 ohm*cm	JIS K7194
Tensile Strength	>6.0 MPa	ASTM D-882
Shielding Performance	Refer to the Power Loss and Transmission Loss graph on right	

Ordering Information

Order No.	Tape/Sheet	Adhesive Type	Dimension
504800-7003	Sheet	Reflow Compatible Type	A4 Standard Sheet (Thickness: 0.13mm)
504800-7001	Sheet	Standard	A4 Standard Sheet (Thickness: 0.147mm)
504800-7000	Sheet	None	A4 Standard Sheet (Thickness: 0.1mm)
504800-2001	Tape	Standard	Width: 20mm Length: 5m (Thickness: 0.147mm)
504800-1001	Tape	Standard	Width: 10mm Length: 5m (Thickness: 0.147mm)

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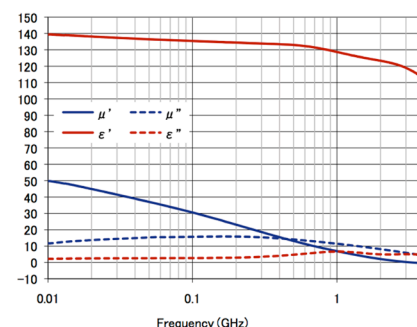
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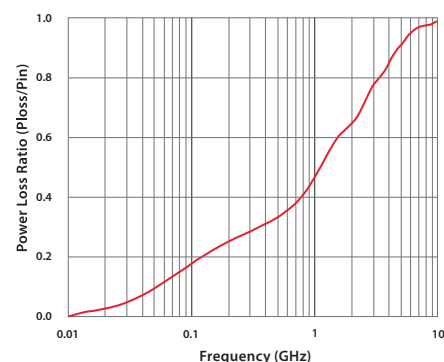
> RF and Microwave Devices

- Antennas
- Microwave and RF Modules
- RFID

Permeability and Permittivity
(Measured by coaxial sample holder kit – CSH2-APC7)



Power Loss
(Measured by 50 ohm microstrip transmission line)



Transmission Loss
(Measured by shield Effect Measurement System, S-GPC-7)

