

EMI ABSORBER SHEET

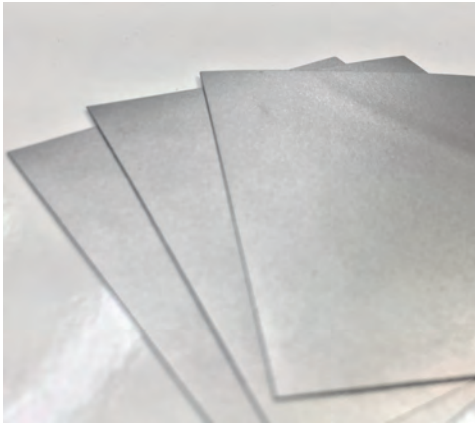
IMRFS Series

NEW

HF
Halogen Free

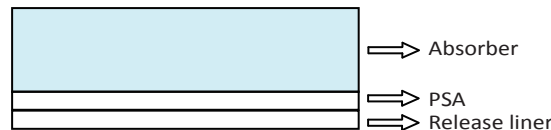
RFID/NFC Absorber

High permeability absorber, engineered for both RFID range improvement and EMI noise reduction.



- IMRFS works to improve the range of RFID (13.56MHz) via the reduction of RFID-to-metal interference.
- The material consists of high permeability fillers in an elastomeric matrix, making it suitable for EMI noise attenuation.
- Applications other than RFID-improvement include: Suppression of radiated emissions in the near-field, reduction of surface noise on shield or other metal surfaces, reduction of cross-talk or other undesired coupling.

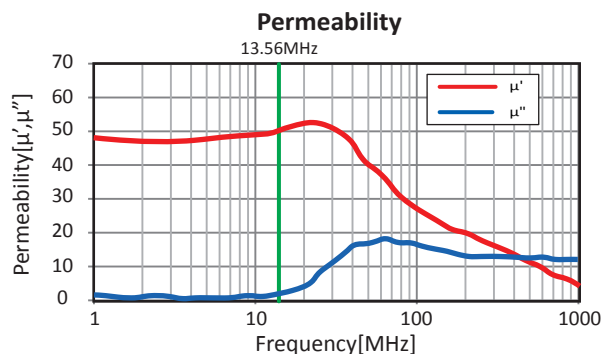
■ Cross-section view



■ Specifications

Property	IMRFS
Total Thickness (mm)	0.12, 0.22, 0.32
Material Thickness (mm)	0.1, 0.2, 0.3
Adhesive Thickness (mm)	0.02, 0.03*
Magnetic Permeability (μ') at 13.56 MHz	$\mu' = 48, \mu'' = 1.8$
Surface Resistance (Ω /sq)	min 1×10^3
Hardness (Shore A)	90 \pm 10%
Density (g/cm ³)	3.5 \pm 10%
Operating Temperature (°C)	-30 ~ 85
Sheet Size (mm)	230 x 270
Adhesive Strength (180° peel off)(gf/inch)	0.02mm= min 800, 0.03mm*= min 1300

*upon request



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All statements, specifications, properties, technical information, and recommendations herein are based on tests; however, the accuracy and completeness are not guaranteed and are subject to change without notice due to product improvement and specification change. This statement is made in lieu of all warranties, expressed or implied, including the implied warranties of marketability, and fitness for purpose. KITAGAWA INDUSTRIES America, Inc. obligation under this warranty shall be limited to replacement of product that proves to be defective. Prior to use, the user shall determine the suitability of the product for its intended use, and the user assumes all risk and liability whatsoever in connection therewith. KITAGAWA INDUSTRIES America, Inc. shall have no liability for any injury, loss, or damage arising out of the use of or the inability to use the products. No statement or recommendation contained herein shall have any force or effect unless in an agreement signed by officers of seller and manufacturer.

Please request for detailed product specification data prior to purchase

Volume resistivity stated on our EMI absorber flyers is meant for noise control parameters, where the absorber is considered a conductor but not for insulation performance. Care should be taken when using absorbers. KITAGAWA INDUSTRIES America, Inc. makes no guarantees as to electrical resistivity values and accepts no liability due to short circuits where EMI absorbers are used directly on the PC Board or areas near high voltage such as for power. EMI absorbers are designed for EMI noise reduction in electronics. They are not recommended for sensitive applications such as direct contact with human skin or high-precision/high-accuracy devices. Prior to using the products in production, please verify the absorber performance and adhesive strength of pressure sensitive adhesives for long term use. Avoid applying external stress such as bending or high amounts of tension. Note that there may be a possibility of creating cracks when the absorber is cut, bent, or pulled. For storage, keep products in a cool, dry, well-ventilated area at room temperature and avoid exposure to high temperatures, high humidity, and direct sunlight.

Please contact the sales department at KITAGAWA INDUSTRIES America, Inc. for the use of our products prior to selecting the parts for your application.