

# EMI ABSORBER SHEET – IMRFS Series



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

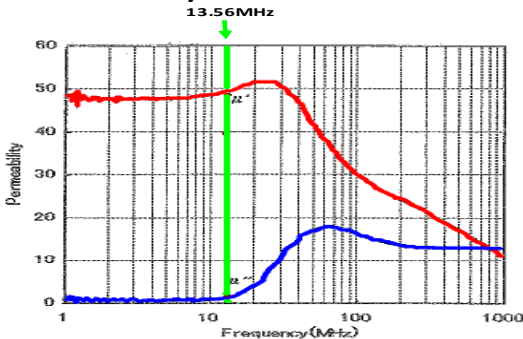
- IMRFS works to improve the range of RFID (13.56MHz) via the reduction of RFID-to-metal interference.
- The material consists of high permeability fillers in an elastomeric matrix, making it suitable for EMI noise attenuation.
- Applications other than RFID-improvement include: Suppression of radiated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

## IMRFS Series Technical Specifications

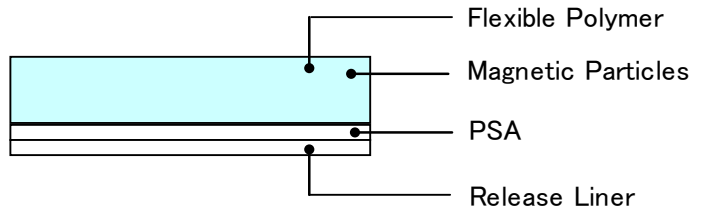
Type	Unit	IMRFS	
Total Thickness	mm	0.12, 0.22, 0.32	
Material Thickness	mm	0.1, 0.2, 0.3	
Adhesive Thickness	mm	0.02, 0.03*	
Magnetic Permeability ( $\mu'$ ) at 13.56MHz	$\mu'$	$\mu' = 48, \mu'' = 1.8$	
Surface Resistance	$\Omega/\text{sq}$	$1 \times 10^3$	
Hardness	Shore A	90 $\pm$ 10	
Density	$\text{g}/\text{cm}^3$	3.6 $\pm$ 0.4	
Operating temp	C	-35 ~ +105C	
Sizes	mm	230 x 270	
Adhesion Power	0.02mm thickness	gf/mm	500 gf/25mm
	0.03mm thickness*	gf/mm	800 gf/25mm

\*upon request

### Permeability



### Construction



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The specifications and properties regarding performance above are not guaranteed, and are subject to change without notice due to product improvement and specification change. While our absorbers are electrically non-conductive, usage directly on the PC Board near the power should be carefully checked. Intermark (USA) Inc. makes no guarantees as to electrical resistivity values and accepts no liability due to short circuits where EMI absorbers are used directly on a PC Board. The products are designed for EMI noise reduction for electronics. This is not recommended to use for applications involving human life or extremely high accuracy. Prior to your usage of the products in production, please verify their performance of EMI noise absorption or adhesive strength of PSA for long term use. Avoid applying any external stress such as bending or high amounts of tension. Note that when the absorber products are cut, bent or pulled, there might be some possibility of creating cracks. For storage of the products keep them in cool and dry rooms at ambient temperature avoiding high temperatures, humidity, and direct sunlight. Keep in a cool, dry, well ventilated place.