

ECCOPAD® HF

13.56 MHz Isolator

RFID Tags on Metal

Material Characteristics

- Thin, flexible, impervious silicone isolator sheets
- Flame resistant and impervious to moisture
- Does not support fungal growth per MIL-STD-810E
- Service temperature of 350°F (178°C) continuously
- Can be subjected to high altitudes, including space with no adverse effects
- Can be readily cut with a sharp knife
- Conforms to contoured surfaces
- Provides protection for impact applications

Material Properties

	HFH-xx	HFL-xx
Weight lb/ft ² (kg/m ²)	0.75 (3.7)	0.27 (1.3)
Density lb/ft ³ (g/cm ³)	300 (4.8)	160 (2.6)
Thickness inches (mm)	0.030 (0.76)	0.020 (0.51)

Applications

- ECCOPAD® HF is used to isolate RFID tags at 13.56MHz from metal.
- ECCOPAD® HF placed between an HF RFID tag and metal will enable the RFID tag to be read
- Read ranges up to 80% of free space against metal have been measured with ECCOPAD® HF isolators

Availability

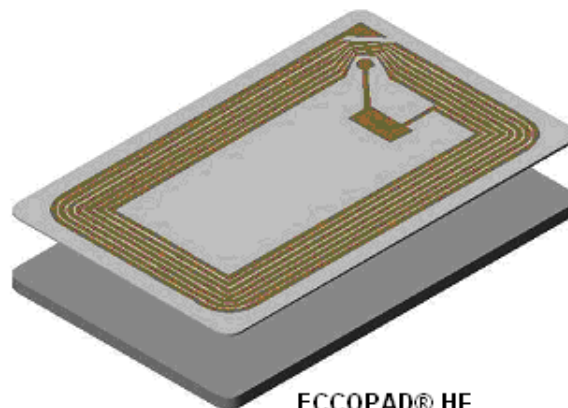
- Standard sheets are 12" x 12" (30.5cm x 30.5cm)
- On request ECCOPAD® HF can be supplied with a [Pressure Sensitive Adhesive \(PSA\)](#) designated ECCOPAD® HFxx/SS-6M (single sided) and ECCOPAD® HFxx/DSS-6M (double sided)
- ECCOPAD® HFxx is available in other sizes and customer specified configurations
- ECCOPAD® HFxx roll stock @ 12" widths is also available

Instructions for Use

- To obtain isolation from metal, the isolator must be mounted on the metal surface

Related E&C Products

- ECCOPAD® HF Metal Insert (13.56MHZ); a rigid epoxide designed to the dimension of the RFID tag for imbedding into metal.
- ECCOPAD® UHF Isolator (915MHZ); silicone rubber sheet, roll stock and custom parts available with pressure sensitive adhesive.



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