

IDA SERIES—Roll Type EMI Absorber (捲材 EMI 吸波材)

Introduction

- IDA series of membrane type microwave absorption materials, this product series is the most common. Can be applied in the production of anti-electromagnetic noise components, two or more signal lines of electronic interference, the same as short circuit, if problems arise can be applied to produce two or more major reflection and does not affect any performance products.
- IDA series does not contain halogen elements, this product made according to different absorption characteristics of different types of classification ..
- IDA series with the soft magnetic metal powder can be made of elastic rubber and resin sheet material

Features

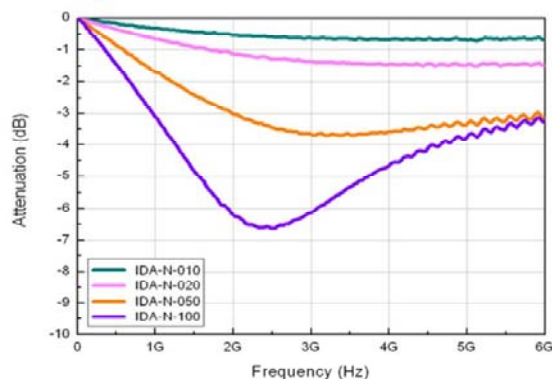
- High-performance metal powder to suppress electromagnetic noise absorbing material.
- Coil type high-performance products used in a variety of filling materials, can provide the best products.
- Ultra-thin, lightweight, soft, can be applied to a wide range of areas
- Halogen-free products can provide customers with the necessary environmental products

產品介紹

- IDA 系列微波吸收材的捲材型式, 是此產品系列中最常見的. 可應用在產生電磁噪音的反零件, 兩個或兩個以上的信號線的電子干擾, 如同短路一樣, 假如問題發生時可以被應用產生兩個以上主要的反射, 並且不影響產品的任何效能.
- IDA 系列不含有鹵元素, 此產品可依不同吸波特點作不同類型的分類..
- IDA 系列含有的軟磁性金屬粉末可以被製成彈性橡膠及樹脂的片狀材質,



IDA-N type



產品特性

- 採用高性能的金屬粉末吸收材來抑制電磁噪音
- 高性能捲材型式產品所使用的各種填充材質, 可以提供最好的產品.
- 超薄 · 輕巧 · 柔軟 · 可以應用於廣泛的領域
- 無鹵素產品可以提供客戶所需的環保產品

Item(系列料號)	IDA SERIES						
	SDS	L	P	N	VHFR(NEW)	VHF	FM(NEW)
Content (物性內容)							
Frequency Range [適用頻率]	500MHz~2GHz	1GHz~2GHz	10MHz~1GHz	10MHz~2GHz	10MHz~2GHz	10MHz~500MHz	10MHz~2GHz
Material [材質]	Microwave absorbing material + elastomer (Halogen Free)						
Thickness (mm) [厚度]	0.2 ~ 1.0	0.05 ~ 1.0	0.1 ~ 0.5	0.05 ~ 1.5	0.1 ~ 0.5	0.1 ~ 1.0	0.1 ~ 1.0
Standard Size [標準尺寸]	Roll Type : 240mm x Length					Sheet Type : 210mm x 300mm	
Surface Resistance(Ω) [表面電阻值]	Min. 1.0x10 ⁴	Min. 1.0x10 ⁹	Min. 1.0x10 ⁹	Min. 1.0x10 ⁹	Min. 1.0x10 ⁶	Min. 1.0x10 ⁹	Min. 1.0x10 ⁵
Hardness [Shore A]	70	80± 5				90	
Density (g/cm ³) [密度]	3.4	3.2	3.4	3.0~3.4	3.5	3.7	3.8
Relative Magnetic Permeability(μ ₀) 相對磁導率	20	20	30	30	65	65	100
Environment [環境]	RoHS			RoHS & Halogen Free			
Service Temperature [工作溫度]	-25 ~ 90 °C					-25 ~ 160 °C	

有德科技(股)公司 U-TEK EMI CORP.

台北市內湖區陽光街 351 號 3F-3

3F-3, No.351, Yung Guang Street., Nei Hu District., Taipei, Taiwan 114

TEL: 886-2-8751-8596 FAX: 886-2-8797-8233

utk@ms13.hinet.net <http://www.u-tek.com.tw>

IDA-M__ Flexible Magnetic Sheet for NFC & WPA (短距通信與無線充電系統吸波材)

Introduction

- IDA-M, a high performance sheet, for improvement communication distance of the NFC (Near Field Communication) and wireless charging system, which is Halogen free and flame retardant sheet.
- IDA-M has a high permeability of real part and a low permeability of imaginary part, a effective of NFC and wireless charging system is excellent.
- IDA-M could be manufactured with 0.08mm~0.3mm thickness excluding a protect PET film and an adhesive.
- The permeability at 13.56MHz of the IDA-M is around 100 and customize possible. Also, This is have many uniform slits for its flexibility.
- If you have problems to set of recognition distance of the NFC or efficiency of the wireless charging. This halogen free ferrite plate has developed to go with the trend of environment restriction.

產品介紹

- IDA-M 高性能吸收片，改良的 NFC 通信距離 (近場通信) 無線充電系統，這是無鹵阻燃吸波片。
- IDA-M 是高磁導率和低磁導率的所組成有效的而且優秀的 NFC 和無線充電系統。
- IDA-M 的規格在 0.08~0.3mm ~ 不包括保護 PET 及背膠。
- IDA-M 13.56MHz 的滲透率大約有 100 種規格可供客製化。
- 此外柔軟性及耐曲折性可增加適用性。
- 若有問題設置的 NFC 或無線充電的識別距離、這無鹵阻燃吸波片是未來與環境限制的趨勢。

產品特性

- 採用高性能的金屬粉末吸收材來抑制電磁噪音
- 高性能捲材型產品所使用的各種填充材質, 可以提供最好的產品.
- 超薄/輕巧/柔軟 · 可以應用於廣泛的領域
- 無鹵素產品可以提供客戶所需的環保產品

Product Features

- High-performance metal powder absorbing material to suppress the electromagnetic noise
- High-performance coil type products use a variety of fill material, and can provide the best products.
- Ultra-thin, lightweight, soft, can be applied to a wide range of areas
- Halogen-free products can provide customers with environmentally friendly products



Item (系列料號)	IDA - M
Content (物性內容)	
Thickness (mm) [厚度] (Only Ferrite_鐵粉芯)	0.06 / 0.1mm
Protect film thickness [保護膜的厚度]	0.01 / 0.03mm (Black)
Adhesive Thickness [背膠厚度]	0.01 / 0.03mm (Acrylic Adhesive)
Total Thickness [總厚度]	0.08~0.16mm
Standard Size [標準尺寸]	<u>115x115mm</u> / <u>127x127mm</u> / <u>135x135mm</u>
Permeability at 13.56MHz [相對磁導率]	105
Sintering Temperature [燒結溫度]	900°C
Density (g/cm ³) [密度]	5.1~5.2g/cm ³
Curie Temperature [居禮溫度]	280°C

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IDA-R , IDA-RP Flexible Magnetic Sheet for NFC & RFID (短距通訊與無線射頻辨識系統吸波材)

Introduction

- The IDA-R & IDA-RP, are high performance sheet, for improvement communication distance of the NFC(Near Field Communication) and RFID (Radio Frequency Identification), which is halogen free and environment-friendly.
- Because this sheet has a high permeability of real part and a low permeability of imaginary part, a efficiency of NFC and RFID system is the excellent.
- IDA-R & IDA-RP could be manufactured with 0.1mm~1.0mm thickness excluding an adhesive.
- The initial permeability of the IDA-R and IDA-RP is 30 and 55.

Applications

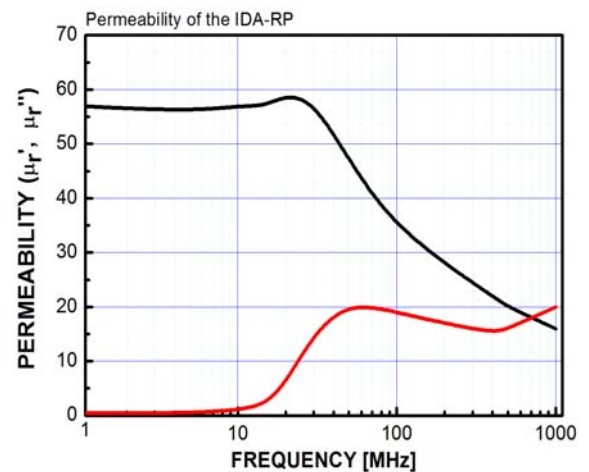
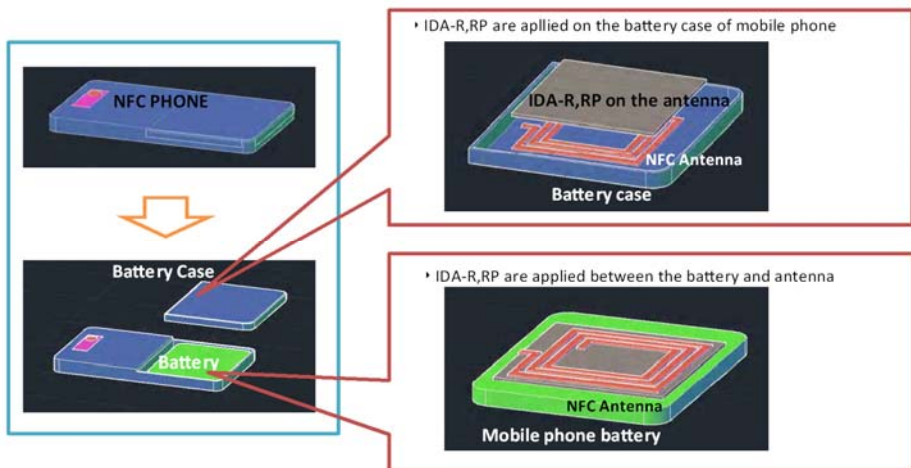
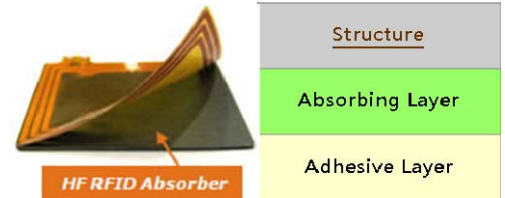
- Conduction noise suppression of electronic components.
- Increasing communication distance of the NFC or RFID system.
- Radiation high frequency EMI suppression.
- RFID of Mobile Phone

產品介紹

- 型號 IDA-R & IDA-RP 是一種高效能的電磁波吸收材, 尤其是對於改善 NFC(近距離通訊系統及無線射頻辨識系統是非常有效的對策, 此產品也提供無鹵(Halogen Free)的環保材質。
- 由於此吸收波片有很高的實體磁導率和一部份的虛體低磁導率, 可產生有效率又優越的 NFC 和 RFID 對策系統。
- 型號 IDA-R & IDA-RP 的生產厚度可從 0.1~1.0mm 厚(不含背膠)。
- IDA-R 和 IDA-RP 初始磁導率的是 30 和 55。

產品應用

- 傳導噪聲抑制的電子元件。
- 增加通訊距離的 NFC 或 RFID 系統。
- 高頻輻射 EMI 抑制。
- 行動電話的 RFID



Item (系列料號)	IDA-R	IDA-RP
Content (物性內容)	IDA-R	IDA-RP
Thickness (厚度)	0.1~0.5mm	0.1~1.0mm
Adhesive Thickness (背膠厚度)	0.03 / 0.05 / 0.10mm	
Service Temp. (°C) (工作溫度)	- 30 ~ 150	
Standard Size (標準尺寸)	240 x Roll (M)	210mm x 300mm / 300mm x 420mm
Real Permeability (μ_r') — 實體導磁率	30	55
Imaginary Permeability (μ_r'') — 虛體導磁率	1	2
Density (g/cm3) (密度)	3.3~3.6	3.7~4.0

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