Web DF

Overview

Frequency Band
UHF 860 – 960 MHz / NFC 13.56 MHz

Chip
EM 4423

Antenna Dimensions
49.4 x 30 mm / 1.93 x 1.18 in

International Standard
ISO 14443A-3

Industry Segments
Apparel
Logistics

Applications
Supply Chain Management
Home Essentials
Brand Protection

RoHs
EU Directive 2011/65/EU and
2015/863 Compliant

REACH
Regulation (EC) No 1907/2006

Perfect fit for retail, industrial and logistics applications

We have complemented our passive inlay and tag offering with a state-of-the-art Web dual frequency (DF) inlay. Our Web DF inlays and tags combine HF (NFC) and UHF frequencies to meet demanding retail, industrial or logistics application requirements. The tags are suitable for product inventory management for warehouses, product authentication and loyalty programs. Web products are compact inlays that are ideally shaped for use as apparel hang-tags or industrial labeling, providing high read reliability and optimum performance with fixed infrastructure.
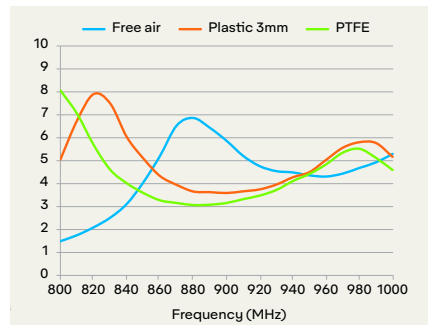
Web DF is equipped with the EM4423 chip that combines two functionalities: the EPC technology used for long-range application purposes, and the NFC technology used to exchange data in close proximity. Leveraging the IC's unique features, Web DF provides multiple benefits for retailers and logistics providers. Enabling NFC functionalities on top of UHF is straightforward, since only programming of the chip is needed.

The NFC element opens up fascinating post-sales scenarios. Users, with NFC-enabled smartphones, can start the interaction with the product by tapping the embedded tag. It allows customers to access additional information, such as user manuals, product warranty documentation, warranty programs, proof of product authenticity for anticounterfeiting purposes, and many more potential applications for retailers and industrial automation.
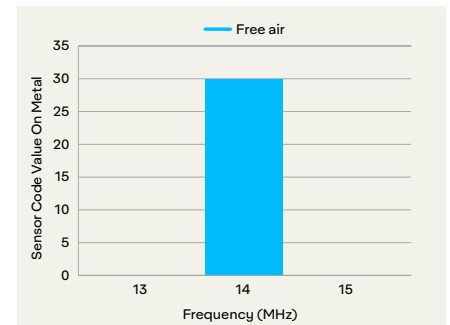
Technical features

Chip	EM 4423		
EPC and User Memory	224-bit and 1920-bit		
TID Memory	Available for all		
Product Code	3005951	3005952	3005953
Delivery Format	Dry inlay	Wet inlay	Label / sticker
Die-cut Dimension	-	54 x 34 mm / 2.13 x 1.34 in	54 x 34 mm / 2.13 x 1.34 in
Inlay Substrate	PET		
Face Sheet	Clear PET	Clear PET	Mid-gloss paper
Standard Pitch	40 mm / 1.575 in		
Web Width	60 mm / 2 in		
Core Size	76 mm / 3 in		
Quantity / Reel	10000 pcs/reel 20000 pcs/box	8000 pcs/reel	3000 pcs/reel 9000 pcs/box
Operating Temperature	-40 °C to 85 °C -40 °F to 185 °F		

Read range

Sensor code value

All graphs are indicative: performance in real life applications may vary.

Contact information

rfid.averydennison.com/contact
North America: +1-866-903-7343 (toll free US)
International: +1-678-617-2359