

# AD Belt DF EM4425

## Overview

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**Frequency Band**

UHF 860 - 960 MHz / NFC 13.56 MHz

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**Chip**

EM4425 (V12)

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**Antenna Dimensions**

70 x 20 mm / 2.76 x 0.79 in

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**International Standard**

ISO 15693

ISO/IEC 18000-63, EPC Gen2 V2

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**Industry Segments**

Apparel

Industrial Applications

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**Applications**

Brand Protection

Supply Chain Management

Home Essentials

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**RoHS**

EU Directive 2011/65/EU and

2015/863 Compliant

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**REACH**

Regulation (EC) No 1907/2006



## The dual-frequency advantage in item-level tagging

Our AD Belt DF EM4425 inlays and tags are designed for item-level tagging, brand protection, supply chain management, and industrial applications. Based on our successful Belt UHF RFID product line, they combine excellent performance with a unique dual-frequency capability, operating in both NFC (HF) and UHF RFID frequency Ranges.

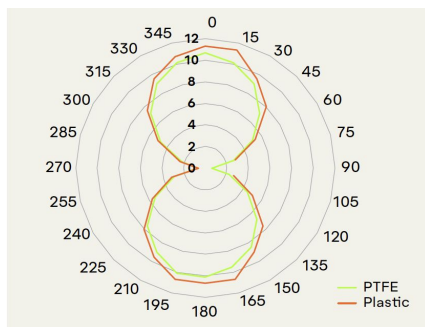
AD Belt DF EM4425 's dual-frequency capability provides powerful all-in-one solutions for, inter alia, consumer engagement, and product authentication, offering the possibility to manage the distribution channels and fight the black and grey market. The consumer can verify the authenticity of the purchased product, while the retailer can verify the authenticity of the returned product. Moreover, the interaction with the product before, during or after purchase, in-store or at home, offers a consistent consumer experience, regardless of the sales channel.

AD Belt DF EM4425 inlays and tags have a compact 76 mm / 3 inch form factor, which can be easily converted into end-application usage, and are available in paper tag delivery format. AD Belt DF EM4425 comes with EM Microelectronic's EM4425 echo-V IC that is equipped with 2048-bits shared user memory. It is accessible via UHF RFID and NFC (HF) frequencies, enabling the use of inexpensive, generally available readers (NFC-enabled smartphones) as supplements to dedicated UHF or HF reader infrastructures.

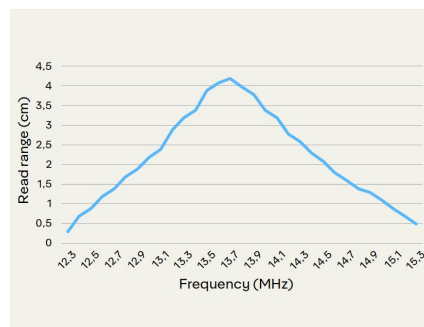
## Technical features

Chip	EM4425 (V12)
EPC and User Memory	2048-bit
TID Memory	Available
Product Code	3008894 / IL-604669
Delivery Format	Wet+ inlay
Die-Cut Dimension	73 x 23 mm / 2.874 x 0.905
Inlay Substrate	PET
Face Sheet	Mid-gloss paper
Standard Pitch	26 mm / 1.02 in
Web Width	76 mm / 3 in
Core Size	76 mm / 3 in
Operating Temperature	-40 °C to 85 °C -40 °F to 185 °F

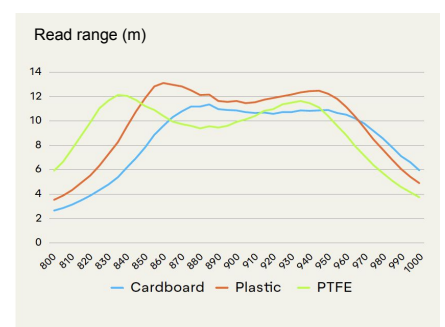
### Orientation sensitivity



### NFC Read range



### UHF Read range



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

### Contact information

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**Warranty:** Please refer to Avery Dennison standard terms and conditions: [rfid.averydennison.com/termsandconditions](http://rfid.averydennison.com/termsandconditions)

**Care and handling:** RFID inlays are sensitive to ESD. Observe standard industry practices relating to electronics / RFID to keep environmental impact and static charge to a minimum.

**Applications:** This product should be tested by the customer / user thoroughly under end use conditions to ensure the product meets the particular requirements. Avery Dennison does not represent that this product is fit for any particular purpose or use. Avery Dennison reserves the right to modify, change, supplement or discontinue product offerings at any time without notice. The information contained herein is believed to be reliable but Avery Dennison makes no representation concerning the accuracy or correctness of the data.

