

AD Midas Flagtag® DF EM4425

Overview

Frequency Band

UHF 860 - 960 MHz / HF 13.56 MHz

Chip

EM4425

Antenna Dimensions

31.4 x 48 mm / 1.236 x 0.89 in

International Standard

ISO/IEC 18000-63, EPC Gen2 V2
ISO 15693

Industry Segments

Retail
Industrial Applications

Applications

Brand Protection
Supply Chain Management
Home Essentials

RoHS

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

REACH

Regulation (EC) No 1907/2006



The dual-frequency advantage in item-level tagging

AD Midas Flagtag® DF EM4425 on-metal inlays and tags are designed for item-level tagging, brand protection, supply chain management, and logistics applications. Based on our successful AD Midas Flagtag® UHF RFID product line, this product combines excellent performance with a unique dual-frequency capability, operating in both NFC (HF) and UHF RFID frequency Ranges.

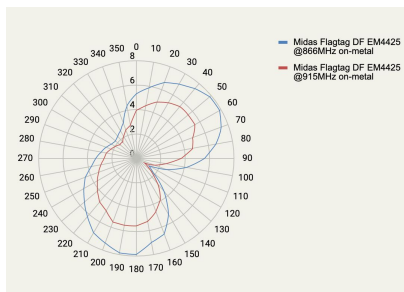
AD Midas Flagtag® DF EM4425's dual-frequency capability provides powerful all-in-one solutions for, inter alia, consumer engagement and product authentication, offering the possibility to manage distribution channels and fight the black and grey markets. The NFC capability allows the consumer to verify the authenticity of the purchased product as well as engage with product or brand information, while the retailer can use the UHF capability to maximize inventory management and accuracy. 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 Midas Flagtag® DF EM4425 inlays and tags have a compact 74 x 35 mm form factor, which can be easily converted into end-application usage, and are available in printable paper tag delivery format. AD Midas Flagtag® DF EM4425 comes with EM Micro-electronic's EM4425 echo-V IC that is equipped with 2048 bits of 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.

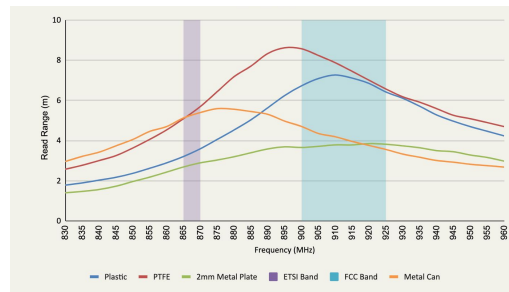
Technical features

Chip	EM4425 (V12)
EPC and User Memory	96-bit / up-to 480-bit / 2048-bit UM
TID/UID Memory	96-bit (UHF) / 64-bit (HF) overlapping
Product Code	3008893 / IL-604668
Delivery Format	Label / sticker
Die-Cut Dimension	73.5 x 34.4 mm / 2.894 x 1.354 in
Inlay Substrate	PET
Face Sheet	Mid-gloss paper
Standard Pitch	37.5 mm / 1.476 in
Web Width	79.5 mm / 3.13 in
Core Size	76 mm / 3 in
Operating Temperature	-40°C to 85°C / -40°F to 185°F

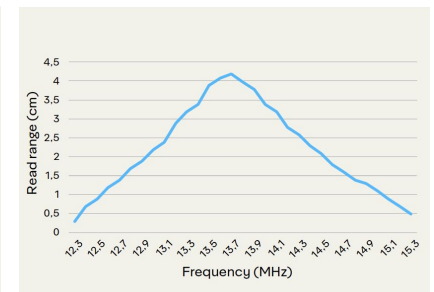
Orientation sensitivity



UHF read range



NFC 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

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.

