AD Slim DF EM4425

Overview

Frequency Band
UHF 860 - 960 MHz / NFC 13.56 MHz

Chip
EM4425 V12

Chip Attachment Technology
Direct Chip Attach

Antenna Dimensions
74.2 x 10.7 mm / 2.921 x 0.421 in

International Standard
ISO 18000-63, EPC Class 1 Gen 2

Industry Segments
Medical
Returnable Transport Items (RTI)

Applications
Logistics
Supply Chain Management

RoHS
EU Directive 2011/65/EC and
Directive (EU) 2015/863

REACH
Regulation (EC) No 1907/2006

The dual-frequency advantage in item-level tagging

Our AD Slim DF EM4425 inlays and tags are designed for item-level tagging, supply chain management, and logistics and industry applications. Based on our successful RFID Dual Frequency product line, AD Slim DF EM4425 combines excellent performance with a unique dual-frequency capability, operating in both NFC (HF) and UHF RFID frequency ranges.

AD Slim DF EM4425´s dual-frequency capability provides powerful all-in-one solutions for, inter alia, supply chain management, product authentication and consumer engagement. The end user can verify the authenticity of the purchased product, while the distributor 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 Slim DF EM4425 inlays and tags have a compact 74.2 x 10.7 mm antenna form factor, which can be easily converted into end-application usage, and is available in wet delivery format. AD Slim DF EM4425 comes with EM Microelectronic's EM4425 V12 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.

Avery Dennison inlays and tags are compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management, which ensure a reliable and state-of-the-art product that meets a variety of application needs, especially in the retail and industry environments.
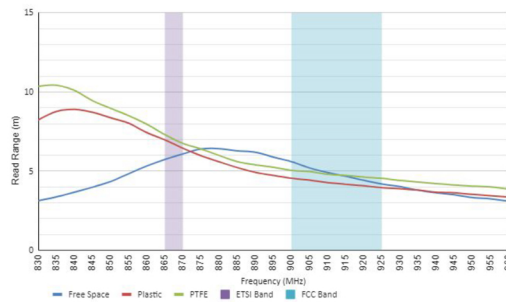
AVERY DENNISON

Technical features

Chip	EM4425 V12
Chip Attachment Technology	Direct Chip Attach
EPC and User Memory	96-bit / up-to 480-bit / 2048-bit UM
TID Memory	96-bit (UHF) / 64-bit (HF) overlapping
Product Code*	3008898 / IL-604673
Delivery Format	Label / sticker
Die-Cut Dimension	77.2 x 13.7 mm / 3.039 x 0.539 in
Inlay Substrate	PET
Face Sheet	Clear PET
Standard Pitch	16.7 mm / 0.657 in
Web Width	90 mm / 3.543 in
Core Size	76 mm / 3 in
Operating Temperature	-40 °C to 85 °C -40 °F to 185 °F

*Other product codes available upon request.

Read Distance on Free Space
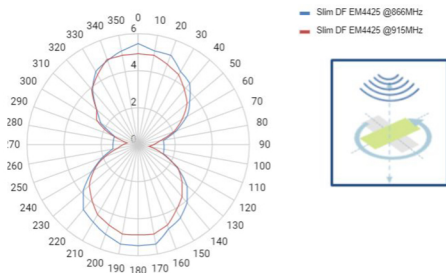
Read Range

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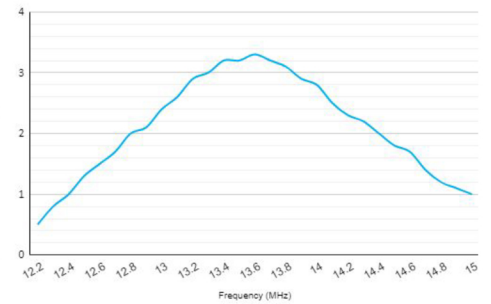
All graphs are indicative: performance in real life applications may vary.

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REACH COMPLIANCE

RoHS

atlasRFIDstore
(205) 383-2244
sales@atlasRFIDstore.com
www.atlasRFIDstore.com