

# AD-141 U9

## Overview

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**Frequency Band**

UHF 860 - 960 MHz

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**Chip**

NXP UCODE 9

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**Chip Attachment Technology**

Direct Chip Attach

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**Antenna Dimensions**

4 x 28 mm / 0.157 x 1.102 in

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**International Standard**

ISO/IEC 18000-63 Type C

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**Industry Segments**

Beauty and Personal Care  
Healthcare

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**Applications**

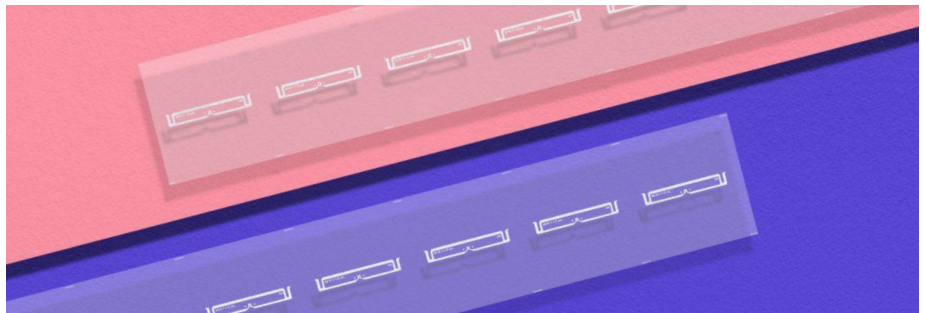
Home Essentials

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**RoHS**

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

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## Optimum read ranges in challenging environments

AD-141 U9 inlays from Avery Dennison are designed for tagging a wide range of items, particularly beauty & personal care, and pharmaceuticals.

Built for the UHF frequency band, the inlays feature a 4 x 28 mm antenna with a global design. It ensures excellent broadband performance (860-930 MHz).

The slender form factor and rectangular shape further contributes to the versatile use in retail oriented applications to increase inventory accuracy, improve supply chain agility, and enhance visibility across all channels. AD-141 U9 features the UCODE 9 chip that is equipped with 96 bits of EPC memory, including a 96-bit Tag Identifier (TID) with a 48-bit unique serial number factory-encoded into the TID. Delivery format includes dry.

Like all RFID products from Avery Dennison, AD-141 U9 inlays are manufactured according to the industry's highest quality standards, as confirmed by the RFID Lab at Auburn University: The inspection body awarded Avery Dennison its first comprehensive and significant ARC accreditation for quality.

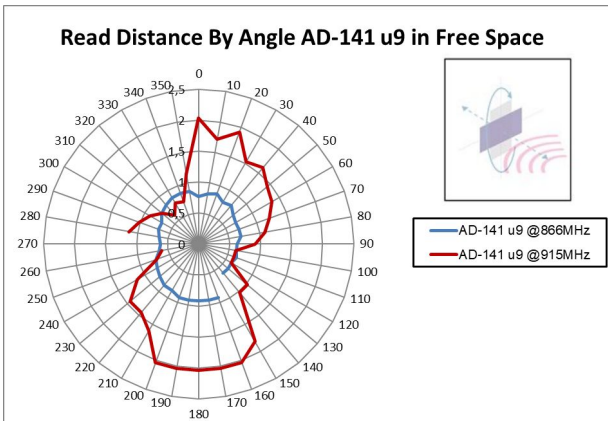
Our inlays and tags are compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management. This ensures a reliable and state-of-the-art product that meets a variety of application needs, where high performance is a critical parameter.

## Technical features

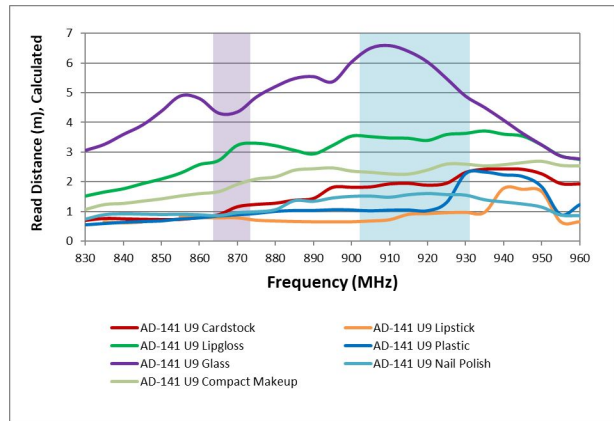
Chip	NXP UCODE 9	
Chip Attachment Technology	Direct Chip Attach	
EPC and User Memory	96-bit and n/a	
TID Memory	96-bit / 48-bit unique serial number	
Product Code*	3008211 / IL-604154	IL-611143
Delivery Format	Dry inlay +	Wet inlay +
Die-Cut Dimension	-	6 x30 mm / 0.236 x 1.181 in
Inlay Substrate	PET	PET
Face Sheet	-	White PET 50
Thickness of the IC	120 µm	120 µm
Standard Pitch	36 mm / 1.417 in	36 mm / 1.417 in
Web Width	40 mm / 1.575 in	40 mm / 1.575 in
Core Size	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	15,000 pcs/reel	8 000 ± 10% pcs/reel
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F	
On-Metal	Non metal	

\*Other product codes available upon request.

## Orientation sensitivity



## Read range



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

### Contact information

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Connect with us on:



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

