

# AD-312 U9

## Overview

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**Frequency Band**

UHF 860 - 960 MHz

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**Chip**

NXP UCODE 9

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**Antenna Dimensions**

41.4 mm x 29 mm / 1.63 x 1.142 in

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**International Standard**

ISO/IEC 18000-63 Type C

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**Industry Segments**

Apparel  
Logistics  
Healthcare

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**Applications**

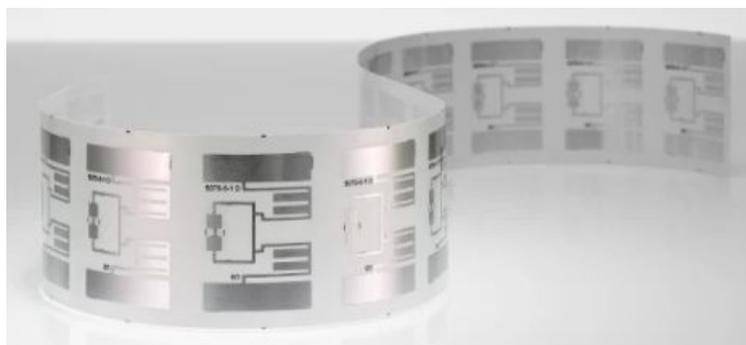
Supply Chain Management  
Brand Protection  
Home Essentials

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**RoHS**

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

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## High performance and flexible use

AD-312 U9 inlays from Avery Dennison are the solution of choice for a wide variety of RFID tagging applications and features the UCODE 9 chip by NXP.

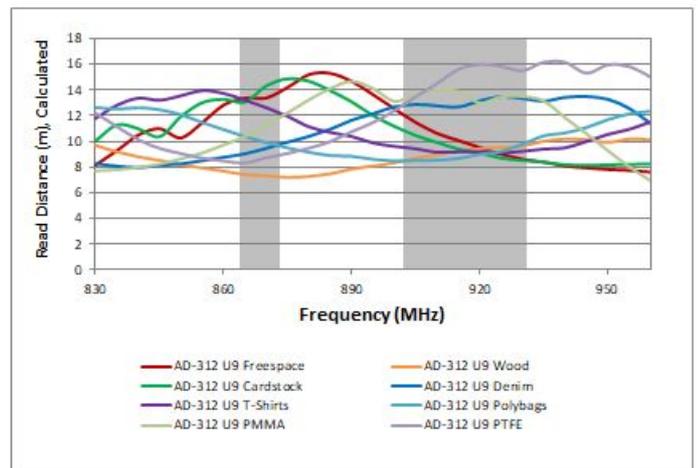
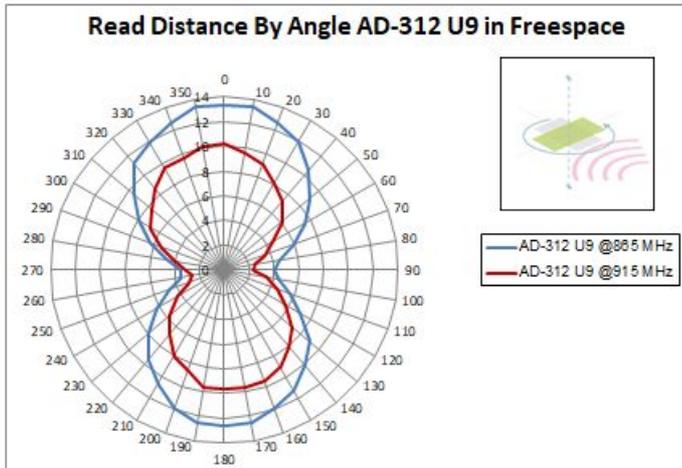
The high performing, Gen2 UHF RFID inlays are a perfect fit for retail items such as apparel and home essentials, and integrate well into supply chain, inventory and logistics applications.

AD-312 U9 inlays feature 96 bits of EPC memory and 96-bit unique factory-locked TID number. A 48-bit unique serial number is factory-encoded into the TID. Delivery formats include dry, wet and paper inlay.

Like all RFID products from Avery Dennison, AD-312 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.

## Technical features

Chip	NXP UCODE 9		
EPC and User Memory	96-bit EPC / -		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	RF602269 / IL-606996	RF602272 / IL-607454	RF101041 / IL-605858
Delivery Format	Dry inlay +	Wet inlay	Label / sticker
Die-Cut Dimension	-	44.45 x 33 mm / 1.75 x 1.30 in	44.45 x 33 mm / 1.75 x 1.30 in
Inlay Substrate	40# Paper	40# Paper	40# Paper
Face Sheet	-	-	TT2C (FASSON®) Bright White
Total Thickness	11.5- 13.5 mils / 292.1 - 342.9 microns	11.8 - 13.8 mils / 299.72 - 350.52 microns	16.2 - 18.2 mils / 411.48 - 462.28 microns
Standard Pitch	38.1 mm / 1.5 in	38.1 mm / 1.5 in	38.1 mm / 1.5 in
Web Width	50.8 mm / 2 in	50.8 mm / 2 in	50.8 mm / 2 in
Core Size	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	6,195 pcs/reel +10%/-0 MAX OD: 330.2 mm / 13 in	6,060 pcs/reel +10%/-0 MAX OD: 330.2 mm / 13in	1,577 pcs/reel +10%/-0 MAX OD: 203.2 mm / 8 in
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F		
On-Metal	Non metal,		
Certificate	ARC: Q, G, M, F, I, K, W2, W5		



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](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.

