

AD-312 U9 Pure 95™

Overview

Frequency Band

UHF 860 - 960 MHz

Chip

NXP UCODE 9

Chip Attachment Technology

Strap Attach

Antenna Dimensions

41.4 x 29 mm / 1.63 x 1.142 in

International Standard

ISO/IEC 18000-63 Type C

Industry Segments

Apparel
Logistics
Healthcare

Applications

Brand Protection
Supply Chain Management
Home Essentials

RoHS

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

REACH

Regulation (EC) No. 1907/2006

End of Life

Paper recyclability: PTS- RH021:97/2012



High performing sustainable inlay

AD-312 U9 Pure 95™ inlays leverage the capabilities of the NXP UCODE 9 chip to allow for high performance on a variety of applications in retail, apparel, healthcare, logistics and supply chain.

Sustainability

The AD-312 U9 Pure 95™ inlay antenna is produced with pure aluminum, replacing the PET aluminum laminate that is traditionally used in standard antenna production. With a pure aluminum antenna, the inlay total construction is up to 95% PET-free in both wet inlay and label formats.

The innovative manufacturing process also enables other benefits, such as recycling excess materials and reducing the total amount of materials while maintaining the overall performance of the product. In addition, based on extensive testing against PTS-RH 021:97/2012 paper and cardboard recycling method with third party laboratory shows that AD Pure 95™ inlays and label are recyclable within the items.

Application

Our AD-312 U9 Pure 95™ inlays provide maximum performance at 41.4 x 29 mm and feature 96-bit of EPC memory as well as a 96-bit unique factory locked TID number. A 48-bit unique serial number is factory-encoded into the TID. Delivery formats include wet inlay and pressure sensitive labels.

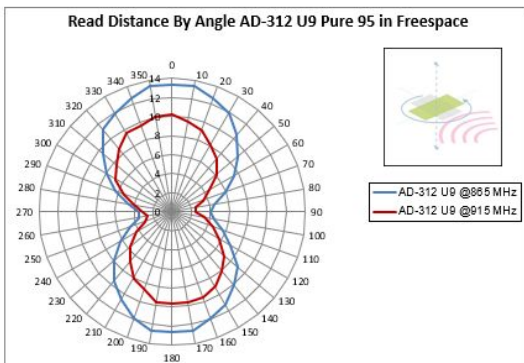
Quality

Like all RFID products from Avery Dennison, AD-312 U9 Pure 95™ 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.

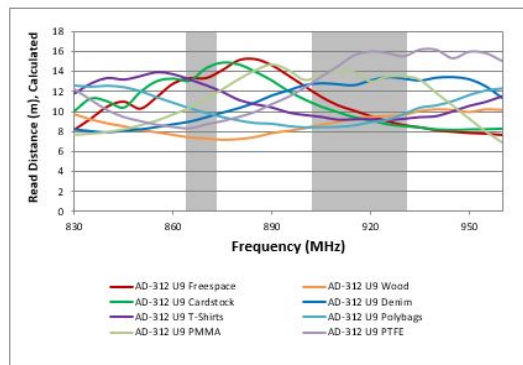
Technical features

Chip	NXP UCODE 9	
Chip Attachment Technology	Strap Attach	
EPC and User Memory	96-bit EPC	
TID Memory	96-bit / 48-bit unique serial number	
Product Code	RF603184 / IL-609724	RF101676 / IL-609564
Delivery Format	Wet Inlay	Label
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
Face Sheet	-	TT2C (Fasson®) Bright White
Total Thickness	12.14 - 14.14 mils / 308.5 - 359.3 microns	15.64 - 17.64 mils / 397.4 - 448.2 microns
Standard Pitch	38.1 mm / 1.5 in	38.1 mm / 1.5 in
Web Width	50.8 mm / 2 in	50.8 mm / 2 in
Core Size	76.2 mm / 3 in	76.2 mm / 3 in
Size of Roll	MAX OD: 13 in	MAX OD: 8.0 in
Quantity / Reel	5,767 pcs/reel	1,740 pcs/reel
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	

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

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.