

# AD-23x U9 Pure 95™

## 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**

Strap Attach

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**Antenna Dimensions**

70 x 14.5 mm / 2.756 x 0.571 in

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**International Standard**

ISO/IEC 18000-63 Type C

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**Industry Segments**

Apparel  
Industrial Applications

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**Applications**

Brand Protection  
Supply Chain Management  
Home Essentials

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**RoHS**

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

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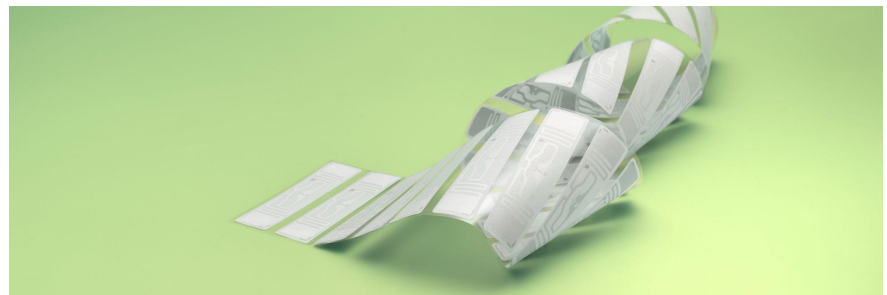
**REACH**

Regulation (EC) No. 1907/2006

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**End of Life**

Paper recyclability: PTS- RH021:97/2012



## Fit for a wide variety of RFID tagging applications

AD-23x U9 Pure 95™ inlays leverage the capabilities of the NXP UCODE 9 chip, and are suitable for a wide variety of RFID tagging applications, including supply chain, inventory and logistics, apparel and home essentials.

### Sustainability

The AD-23x U9 Pure 95™ inlay antenna is produced with pure aluminum, replacing the PET aluminum laminate that is traditionally used in standard antenna production. By removing the plastic based layer, the total inlay construction is up to 95% plastic free in both wet inlay and label formats. A minimal amount of plastic-strap is used for the memory chip attachment.

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

AD-23x U9 Pure 95™ inlays from Avery Dennison provide maximum performance on a given footprint of 70 x 14.5 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 label.

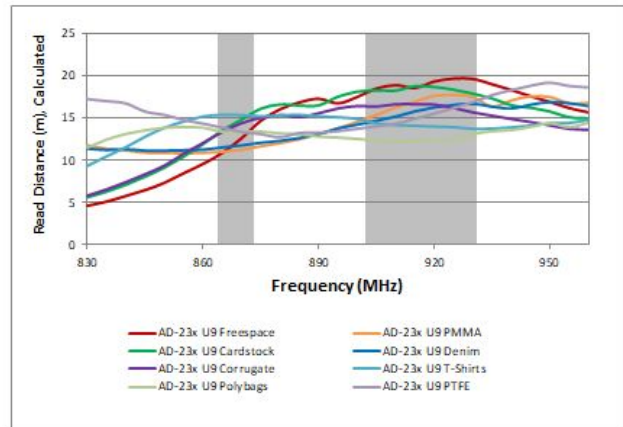
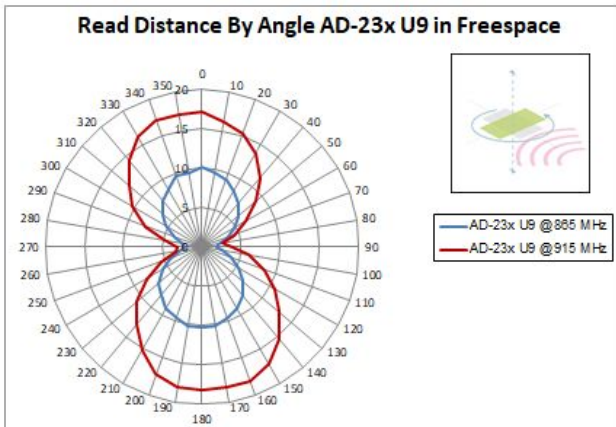
### Quality

Like all RFID products from Avery Dennison, AD-23x 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 and n/a		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	RF602368 / IL-607854	RF101076 / IL-605856	RF101077 / IL-606515
Delivery Format	Wet Inlay	Label	Label
Die-Cut Dimension	76 x 20 mm	76 x 20 mm	76 x 20 mm
Inlay Substrate	40# Paper	3pt Paper	5pt Paper
Total Thickness	12.5 –14.5 mils / 317.5 – 368.3 microns	12.8 - 14.8 mils 325.12 - 375.92 microns	14.5 - 16.5 mils 368.3 - 419.1 microns
Standard Pitch	38.1 mm / 1.5 in	38.1 mm / 1.5 in	38.1 mm / 1.5 in
Web Width	82.55 mm / 3.25 in	82.55 mm / 3.25 in	82.55 mm / 3.25 in
Core Size	76.2 mm / 3 in	76.2 mm / 3 in	76.2 mm / 3 in
Size of Roll	MAX OD: 13 in	MAX OD: 8.0 in	MAX OD: 8.0 in
Quantity / Reel	5,767 pcs/reel	1,941 pcs/reel	1,740 pcs/reel
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F		
On-Metal	Non metal		
Certificate	ARC		

## Technical features



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.

