

# AD-333 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**

70 x 14.5 mm / 2.76 x 0.57 in

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**International Standard**

ISO/IEC 18000-63 Type C

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**Industry Segments**

Logistics  
Apparel

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**Applications**

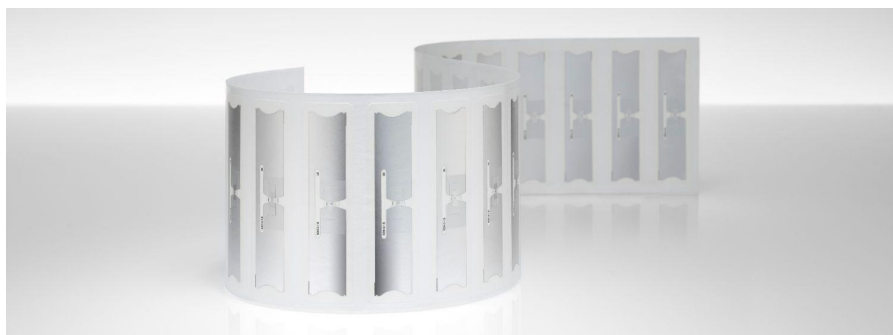
Inventory and Logistics  
Supply Chain Management

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**RoHS**

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

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## High reliability in high density, close proximity conditions

AD-333 U9 inlays from Avery Dennison excel in high density, close proximity conditions often found in supply chain (inventory and logistics) and retail environments (apparel and item-level tagging).

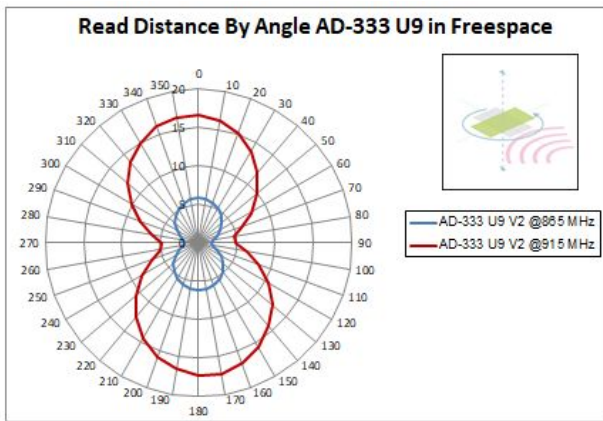
The Gen2 UHF RFID inlays have a 70 x 14.5 mm antenna design providing superior bulk reading performance when tagged items are stacked, and feature UCODE 9 chips from NXP. The chip is equipped with 96-bit of EPC memory and a 96-bit Tag Identifier (TID) with a 48-bit unique serial number factory-encoded into the TID.

Like all RFID products from Avery Dennison, AD-333 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.

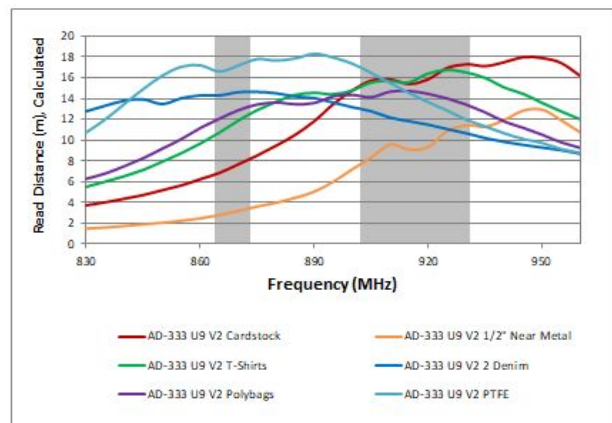
## Technical features

Chip	NXP UCODE 9		
EPC and User Memory	96-bit EPC		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	RF602250 / IL-607855	RF602252 / IL-605624	RF101015 / IL-607935
Delivery Format	Dry inlay	Wet inlay	Paper Label
Die-Cut Dimension	N/A	76 x 20 mm / 3.00 x 0.80 in	76 x 20 mm / 3.00 x 0.80 in
Inlay Substrate	40# Paper	40# Paper	40# Paper
Face Stock	N/A	N/A	TT2C
Total Thickness	11 - 14 mils / 279 - 355 microns	12 - 15 mils / 322 - 374 microns	16 - 18 mils/ 411 - 462 microns
Standard Pitch	25.4 mm / 1 in	25.4 mm / 1 in	25.4 mm / 1 in
Web Width	82.6 mm / 3.25 in	82.6 mm / 3.25 in	82.6 mm / 3.25 in
Core Size	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	TBD	TBD	TBD
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F		
On-Metal	Non metal		
Certificates	ARC Spec N, Spec Q, Spec M, Spec G, Spec F, Spec J, Spec H, Spec W1, Spec W2, Spec W3, Spec W4, Spec W5, and Spec W6		

## Orientation sensitivity



## Read range



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

### Contact information

[rfid.averydennison.com/contact](http://rfid.averydennison.com/contact)  
1-678-617-2359

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.

