AD-333 U9 Pure 95™

Overview

Frequency Band
UHF 860 - 960 MHz

Chip
NXP UCODE 9

Chip Attachment Technology
Strap Attach

Antenna Dimensions
70 x 14.5 mm / 2.76 x 0.57 in

International Standard
ISO/IEC 18000-63 Type C

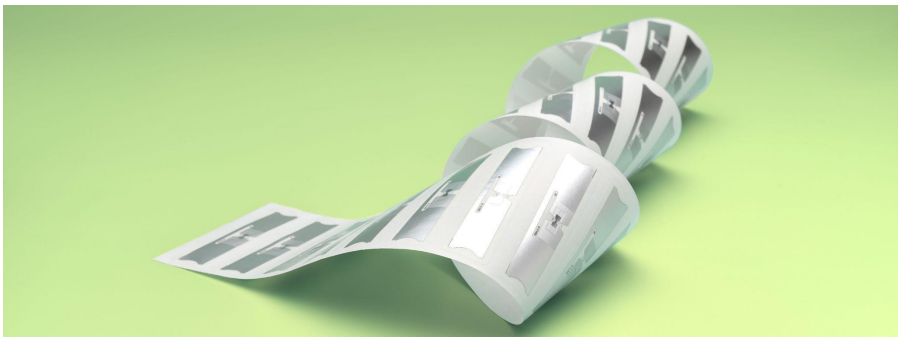
Industry Segments
Logistics
Apparel

Applications
Inventory and Logistics
Supply Chain Management

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

REACH
Regulation (EC) No. 1907/2006

End of Life
Paper recyclability: PTS- RH021:97/2012



Excellent read range and versatility

AD-333 U9 Pure 95™ inlays leverage the capabilities of NXP UCODE 9 chip, the Gen2 UHF and excel in high density, close proximity conditions often found in supply chain (inventory and logistics) and retail environments (apparel and item-level tagging).

Sustainability
The AD-333 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.

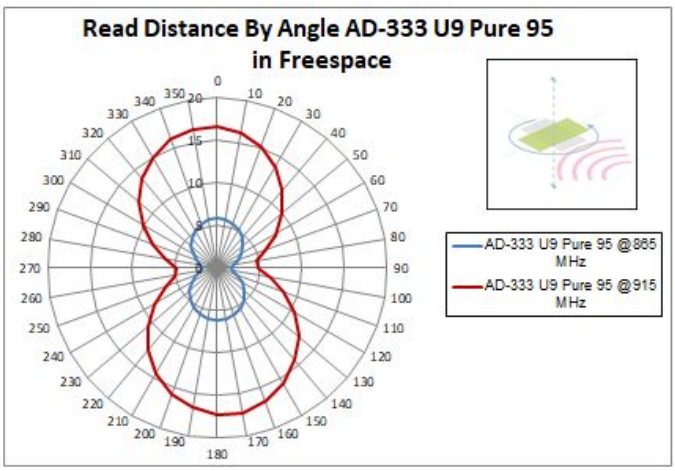
Application
AD-333 U9 Pure 95™ inlay design from Avery Dennison is optimized for broadband performance provide maximum performance on a given footprint of 70 x 14.5 mm and feature 96-bit of EPC memory as well as a 96-bit unique factory locked TID number. A 48-bit unique serial number is factory-encoded into the TID. Delivery formats include dry, wet and pressure sensitive label.

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

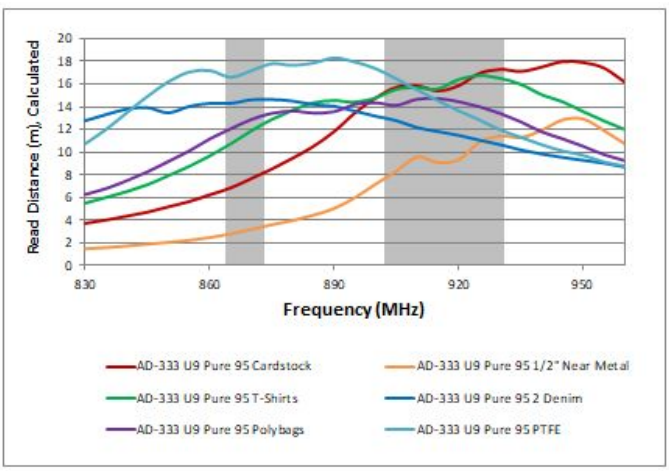
Technical features

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	RF602470 / IL-605600	RF101129 / IL-607397
Delivery Format	Wet inlay	Label
Die-Cut Dimension	76 x 20.32 mm / 3 x 0.8 in	76 x 20.32 mm / 3 x 0.8 in
Inlay Substrate	40# Paper	40# Paper
Face Stock	-	TT2C (FASSON®) Bright White
Total Thickness	12.5 - 14.5 mils / 317.5 - 368.3 microns	16 - 18 mils/ 406.4 - 457.2 microns
Standard Pitch	25.4 mm / 1 in	25.4 mm / 1 in
Web Width	82.55 mm / 3.25 in	82.55 mm / 3.25 in
Core Size	76 mm / 3 in	76 mm / 3 in
Size of Roll	MAX OD: 13 in	MAX OD: 8 in
Quantity / Reel	2,971 pcs/reel	2,392 pcs/reel
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F	
On-Metal	Non metal	
Certificates	ARC	

Orientation sensitivity



Read range



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

Contact information
rfid.averydennison.com/contact
1-678-617-2359

Connect with us on:

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.