

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

EU Paper recyclability: PTS-

RH021:97/2012

US Paper Recyclability: SBS-E Part I

(Repulability) and Part II (Recyclability)



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). The inlay design is optimized for broadband performance provide maximum performance on a given footprint of 70 x 14.5 mm. Delivery formats include wet inlay and pressure sensitive label.

Sustainability

AD-333 U9 Pure 95™ is produced via innovative antenna manufacturing technology where the aluminum antenna is made with pure aluminum, replacing the PET aluminum laminate traditionally used in standard antenna production. By eliminating 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. According to an LCA (Life Cycle Analysis) study by an independent institute the innovative manufacturing technology provides typically 70-90% savings in carbon footprint compared to traditional etching methods.

The manufacturing process also enables recycling excess materials and reducing the total amount of materials while maintaining the overall performance of the product. The impact of the Pure 95™ paper-based inlays and tags in cardboard recycling has been verified by a third-party laboratory in the EU against PTS-RH 021:97/2012. In the US, the hangtag construction is certified by West Michigan University against SBS-E Part I (repulpability) and Part II (recyclability). How2Recycle® has "pre-qualified" the RFID construction when applied to a paper hangtag and determined that the structure is eligible for a widely recyclable 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.



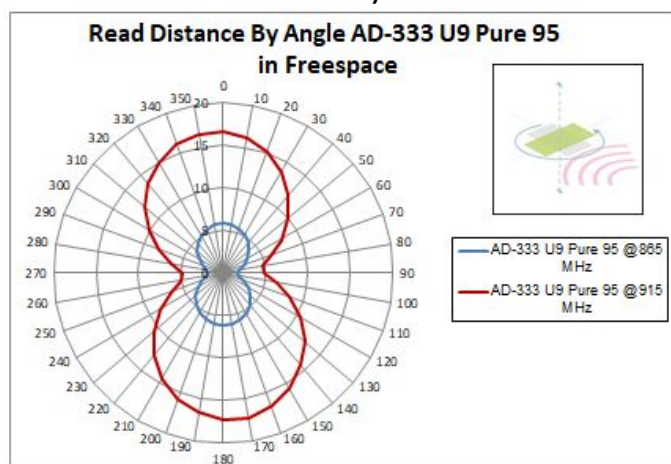
rfid.averydennison.com

***How2Recycle:** "Additional components, product application, or other attributes may change the final recyclability of the package. Must be a How2Recycle member and submit a label request to use the label on pack".

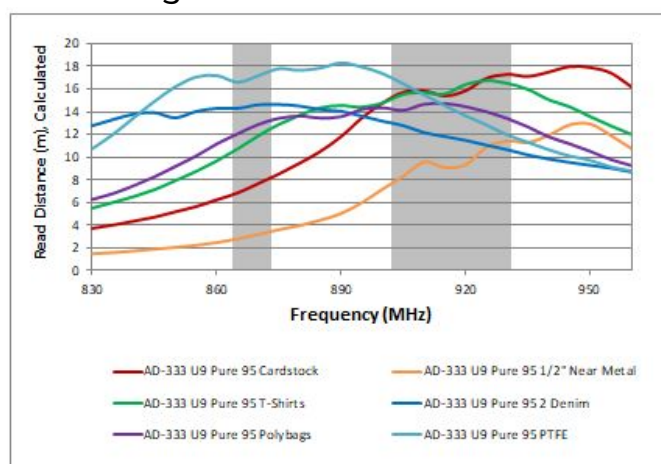
Technical features

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

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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.