



AD Astro U9 Pure 95TM NEL

Overview

Frequency Band

UHF 860 - 960 MHz

IC Attachment Technology

Strap Attach

Chip

NXP UCODE 9

Antenna Dimensions

19 x 53 mm / 0.75 x 2.09 in

International Standard

ISO/IEC 18000-63 Type C

Industry Segments

Apparel
General Retail

Applications

Supply Chain Management
Inventory and Logistics

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



Ideal for a wide range of items in retail and beyond

AD Astro U9 Pure 95TM NEL inlays from Avery Dennison are designed for tagging a broad range of retail items, particularly apparel, including fabrics with metallic fiber. They are also well suited for applications related to supply chain, inventory and logistics.

The AD Astro U9 Pure 95TM NEL 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 is used for the IC attachment via our strap attach process.

The innovative manufacturing process also enables other benefits, such as recycling excess materials and reducing the total amount of material, while maintaining the overall performance of the product. In addition, based on extensive testing against PTS-RH 021:97/2012 paper and cardboard recycling methods, our third party laboratory confirms that PureTM inlays and labels are recyclable within an item.

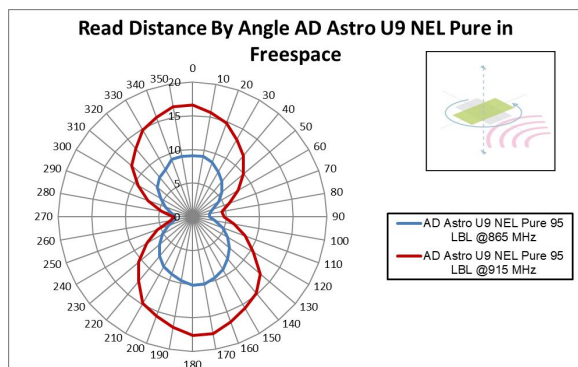
AD Astro U9 Pure 95TM NEL inlays feature a 19 x 53 mm antenna and an NXP UCODE 9 IC, equipped with 96-bit of EPC memory as well as a 96-bit unique factory locked TID number. A 48-bit unique serial number is factory-encoded into the TID. Delivery formats include wet inlays and pressure sensitive labels.

Avery Dennison inlays and tags are compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management, which ensure a reliable and state-of-the-art product that meets a variety of application needs, especially in the retail environment.

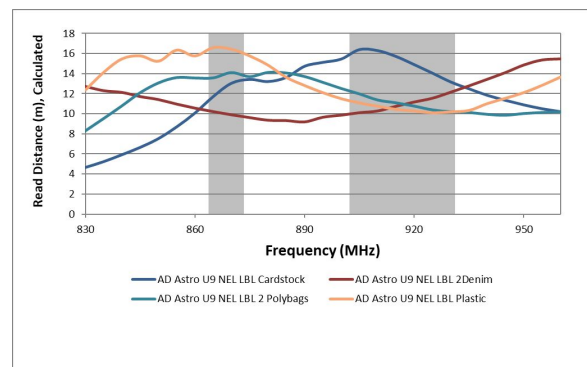
Technical features

Chip	NXP UCODE 9	
EPC and User Memory	96-bit and n/a	
TID Memory	96-bit / 48-bit unique serial number	
Product Code	IL-610744	IL-610745
Delivery Format	Wet inlay	Label
Die-Cut Dimension	22 x 56 mm / 0.87 x 2.2 in	22 x 56 mm / 0.87 x 2.2 in
Inlay Substrate	40# Paper	40# Paper
Face Sheet	-	TT2C
Total Thickness	12.5 - 14.5 mils / 317 - 368 microns	16 - 18 mils / 406 - 457 microns
Standard Pitch	63.5 mm / 2.5 in	63.5 mm / 2.5 in
Web Width	31.75 mm / 1.25 in	31.75 mm / 1.25 in
Core Size	76 mm / 3 in	76 mm / 3 in
Inlays per Roll	2,200 pcs/reel	1,800 pcs/reel
Size of Roll	13 in MAX OD	8 in MAX OD
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F	
On-Metal	Non metal	
Certificates	ARC Specification Guide	

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: [rfd.averydennison.com/termsandconditions](https://www.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.