

# AD Astro U9 NEL

## Overview

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**Frequency Band**

UHF 860 - 960 MHz

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**IC Attachment Technology**

Strap Attach

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**Chip**

NXP UCODE 9

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**Antenna Dimensions**

19 x 53 mm / 0.75 x 2.09 in

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**International Standard**

ISO/IEC 18000-63 Type C

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**Industry Segments**

Apparel  
General Retail

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**Applications**

Supply Chain Management  
Inventory and Logistics

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**RoHS**

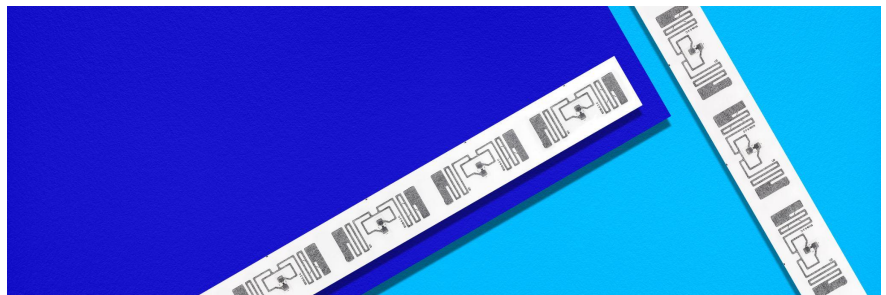
EU Directive 2011/65/EU and  
Directive (EU) 2015/863

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**REACH**

Regulation (EC) No. 1907/2006

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## Ideal for a wide range of items in retail and beyond

AD Astro U9 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.

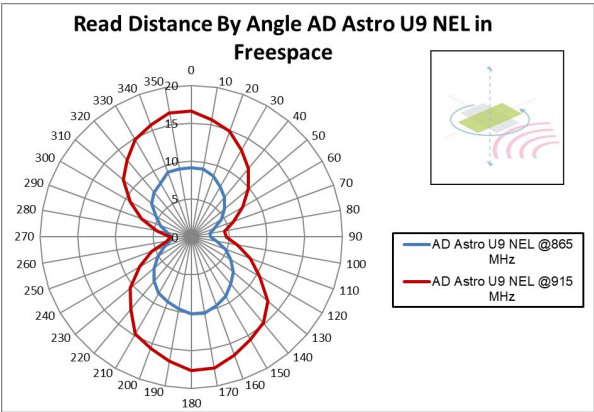
AD Astro U9 NEL inlays feature a 19 x 53 mm antenna and are equipped with NXP UCODE 9, which offers 96-bit of EPC memory. Tag Identifier (TID) with a 48-bit unique serial number is factory encoded into the TID.

Like all RFID products from Avery Dennison, AD Astro U9 NEL inlays 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

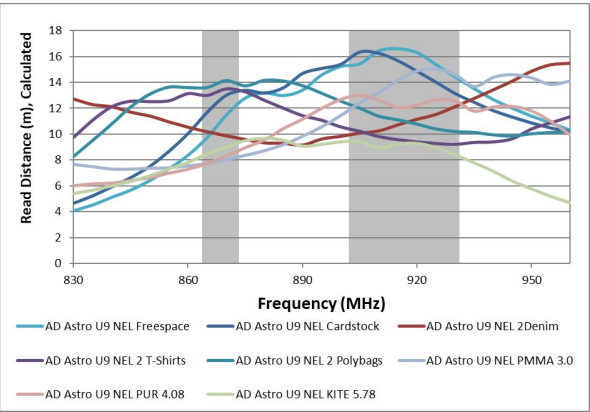
## Technical features

|                                             |                                         |
|---------------------------------------------|-----------------------------------------|
| Chip                                        | NXP UCODE 9                             |
| Chip Attachment Technology                  | Strap Attach                            |
| EPC and User Memory                         | 96-bit EPC and n/a                      |
| TID Memory                                  | 96-bit / 48-bit unique serial number    |
| Product Code                                | IL-610748                               |
| Delivery Format                             | 2-Ply PFL                               |
| Die-Cut Dimension                           | –                                       |
| Inlay Substrate                             | PFL                                     |
| Face Sheet                                  | PFL                                     |
| Total Thickness (over chip & release liner) | 16.0 - 18.0 mils /<br>406 - 457 microns |
| Standard Pitch                              | 76.2 mm / 3 in                          |
| Web Width                                   | 31.75 mm / 1.25 in                      |
| Core Size                                   | 76 mm / 3 in                            |
| Inlays per Roll                             | 1,500 pcs/reel                          |
| Size of Roll                                | MAX OD: 8 in                            |
| Operating Temperature                       | -40 °C to 85 °C / -40 °F to 185 °F      |
| On-Metal                                    | Non metal                               |

## 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](https://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.