

# AD-172 U7

## Overview

---

**Frequency Band**

UHF 860 - 960 MHz

---

**Chip**

NXP UCODE 7

---

**Antenna Dimensions**

22 x 12.5 mm / 0.9 x 0.5 in

---

**International Standard**

ISO/IEC 18000-63 Type C

---

**Industry Segments**

Apparel  
Healthcare  
Beauty and Personal Care

---

**Applications**

Fashion Jewelry and Sunglasses  
Pharmaceutical and Healthcare  
Personal Care Products

---

**RoHS**

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

---

**REACH**

Regulation (EC) No. 1907/2006

---

**Certificates**

ARC

---



## Compact size and high flexibility

AD-172u7 inlays from Avery Dennison are designed for tagging a broad range of smaller retail items, jewelry, pharmaceutical and healthcare products.

Built for the UHF frequency band, the inlays feature a 22 x 12.5 mm antenna with global broadband performance (860-930 MHz) for reliable operation on different surfaces and materials.

AD-172u7 inlays are equipped with the UCODE 7 IC from NXP, featuring 128-bit of EPC memory and a 96-bit TID factory locked with with a 48-bit unique serial number.

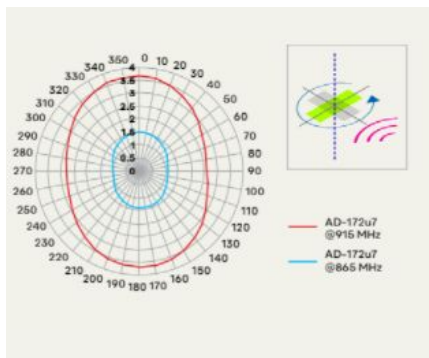
Delivery formats include dry inlay, wet inlay, and label / sticker.

Like all RFID products from Avery Dennison, AD-172u7 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.

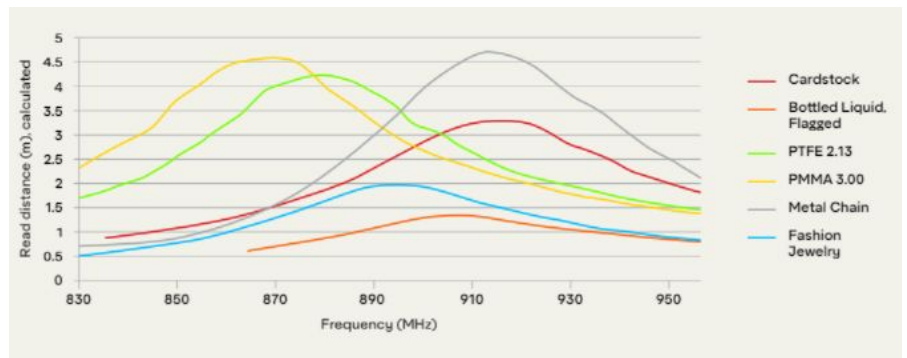
## Technical features

Chip	NXP UCODE 7		
EPC and User Memory	128-bit and n/a		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	RF600482 / IL-608350	RF600526 / IL-604391	RF100310 / IL-604392
Delivery Format	Dry inlay	Wet inlay	Label / sticker
Die-Cut Dimension	–	24 x 15.5 mm / 0.95 x 0.61 in	31.75 x 15.5 mm / 1.25 x 0.60 in
Inlay Substrate	PET	PET	5pt Integrity
Total Thickness	10 - 13 mils / 254 - 330 microns	14 - 17 mils / 356 - 432 microns	16 - 18 mils / 399 - 450 microns
Standard Pitch	19.05 mm / 0.75 in	19.05 mm / 0.75 in	38.1 mm / 1.5 in
Web Width	36 mm / 1.45 in		
Core Size	76 mm / 3 in		
Quantity / Reel	15,000 pcs/reel	13,000 pcs/reel	3,244 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](http://rfid.averydennison.com/contact)  
+1-678-617-2359

Connect with us on:



© 2021 Avery Dennison Corp. All rights reserved. 170 Monarch Lane, Miamisburg, OH 45342, USA Third party trademarks and/or trade names used herein are the property of their respective owner(s). Some of the trademarks appear for identification purposes only.

**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.

