# AVERY DENNISON RFID SOLUTIONS

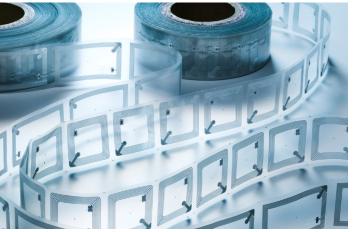
**EXPERIENCE. SUPPORT. SOLUTIONS.** 













#### WHY CHOOSE AVERY DENNISON RFID?

When you choose Avery Dennison RFID, you get field-proven inlay products, advanced research and testing capabilities, experienced engineering and technical resources, and, most importantly, a partner with a deep understanding of what it takes to make your application successful.

When you choose Avery Dennison RFID, you get the benefit of our relationships with best-in-class chip and reader manufacturers, label and tag converters and systems integrators across the globe — to support the most challenging RFID projects.

When you choose Avery Dennison RFID, you get solutions to application challenges such as materials, environments and packaging.

Every day Avery Dennison RFID enables improvements in tracking, authentication, access and data capture applications such as:

- Supply chain, inventory and logistics
- Pharmaceutical and healthcare
- Library, media, documents and files
- Contactless cards and tickets
- Industrial and manufacturing
- Brand protection and product authentication
- Apparel and other item-level retail

And new applications emerge every day. One could be yours.

CHOOSE AVERY DENNISON RFID.

#### **EXPERIENCE. SUPPORT. SOLUTIONS.**

Innovation is at the core of what we do. Even if you don't see a product that fits your immediate needs, we may have other chip configurations or inlay sizes available. To find out more, please contact us by phone at 866-903-RFID (7343)/+1-770-965 0807 or email at rfid.info@averydennison.com.

#### **UHF RFID INLAYS**

860-960 MHz, ISO-18000-6C, EPC Class 1 Gen 2

| NAME     | SIZE                               | CHIP                                     | MEMORY                                  | COMMON APPLICATIONS   |
|----------|------------------------------------|--|---|---|
| AD-110m5 | .91 x .20 in<br>23 x 5 mm          | Impinj <sup>®</sup> Monza <sup>®</sup> 5 | 128 bit w/TID**                         | <ul><li>Pharmaceutical and healthcare</li><li>Embedded applications</li></ul>   |
| AD-160u7 | 2.36 x .0158 in<br>60 x 4 mm       | NXP UCODE 7                              | 128 bits w/TID**                        | Cosmetic and Item-level retail     Personal Care Products   |
| AD-171m5 | 1.06 x 0.55 in<br>27 x 14mm        | Impinj® Monza® 5                         | 128 bit w/ TID**                        | Apparel and other item-level retail     Pharmaceutical and healthcare   |
| AD-172u7 | 0.87 x 0.49 in<br>22 x 12.5 mm     | NXP UCODE 7                              | 128 bits w/TID**                        | Jewelry     Supply chain, inventory and logistics   |
| AD-180u7 | 1.02 in Diameter<br>26 mm Diameter | NXP UCODE 7                              | 128 bits w/TID**                        | Cosmetic and Item-level retail  |
| AD-226iM | 3.74 x 0.32 in<br>95 x 8.15 mm     | NXP UCODE G2iL                           | 256 bits w/TID**<br>512 bit User Memory | <ul> <li>Supply chain, inventory and logistics</li> <li>Apparel and other item-level retail</li> <li>Returnable transport units (RTUs)</li> </ul> |
| AD-227m5 | 3.74 x .33 in<br>95 x 8.3 mm       | Impinj® Monza® 5                         | 128 bits w/TID**                        | <ul><li>Supply chain, inventory and logistics</li><li>Apparel and other item-level retail</li><li>Returnable transport units (RTUs)</li></ul>     |
| AD-232iL | 2.76 x .57 in<br>70 x 14.5 mm      | NXP UCODE<br>G2iL                        | 128 bits w/TID*                         | Apparel and other item-level retail     Supply chain, inventory and logistics   |

<sup>\*</sup>TID Memory = 64-bit includes 32-bit unique serial number. \*\*TID Memory = 96-bit includes 48-bit unique serial number.

# **UHF RFID INLAYS**

860-960 MHz, ISO-18000-6C, EPC Class 1 Gen 2

| NAME            | SIZE                           | CHIP                                     | MEMORY           | COMMON APPLICATIONS   |
|-----------------|--------------------------------|--|------------------|---|
| AD-233m5        | 2.76 x .57 in<br>70 x 14.5 mm  | Impinj® Monza® 5                         | 128 bit w/ TID** | <ul><li>Apparel and other item-level retail</li><li>Supply chain, inventory and logistics</li></ul>   |
| AD-234eM        | 2.76 x 0.57 in<br>70 x 14.5 mm | EM Microelectronic<br>EM4124             | 96 bit w/TID***  | <ul><li>Apparel and other item-level retail</li><li>Supply chain, inventory and logistics</li></ul>   |
| AD-235u7        | 2.76 x 0.57 in<br>70 x 14.5 mm | NXP UCODE 7                              | 128 bit w/TID**  | Apparel and other item-level retail   |
| AD-317iL        | 1.63 x .63 in<br>41.4 x 16 mm  | NXP UCODE G2iL                           | 128 bit w/ TID*  | <ul> <li>Apparel and other item-level retail</li> <li>Supply chain, inventory and logistics</li> <li>Pharmaceutical and healthcare</li> </ul>       |
| AD-318m5        | 1.63 x 0.63 in<br>41.4 x 16 mm | Impinj® Monza® 5                         | 128 bit w/TID**  | Apparel and Retail  |
| AD-319eM        | 1.63 x 0.63 in<br>41.4 x 16 mm | EM Microelectronic<br>EM4124             | 96 bit w/TID***  | Apparel and Retail Industrial   |
| AD-320u7        | 1.63 x 0.63 in<br>41.4 x 16 mm | NXP UCODE 7                              | 128 bit w/ TID** | Apparel and retail  |
| AD-370u7        | 0.75 x 2.09 in<br>19 x 53 mm   | NXP UCODE 7                              | 128 bit w/TID**  | Apparel and Retail  |
| AD-380iL        | 1.97 x 1.18 in<br>50 x 30 mm   | NXP UCODE<br>G2iL                        | 128 bits w/TID*  | <ul><li>Apparel and other item-level retail</li><li>Supply chain, inventory and logistics</li><li>Library, media, documents and files</li></ul>     |
| AD-381m5        | 1.97 x 1.18 in<br>50 x 30 mm   | Impinj® Monza®5                          | 128 bit w/ TID** | <ul><li>Apparel and retail</li><li>Supply chain, inventory and logistics</li><li>Library, media, documents and files</li></ul>                      |
| AD-383u7        | 1.97 x 1.18 in<br>50 x 30 mm   | NXP UCODE 7                              | 128 bits w/TID*  | <ul> <li>Apparel and other item-level retail</li> <li>Supply chain, inventory and logistics</li> <li>Library, media, documents and files</li> </ul> |
| AD-550m5        | 1.50 x 2.99 in<br>38 x 76mm    | Impinj <sup>®</sup> Monza <sup>®</sup> 5 | 128 bit w/ TID** | <ul><li>Apparel and other item-level retail</li><li>Supply chain, inventory and logistics</li><li>Pharmaceutical and healthcare</li></ul>           |
| AD-806u7<br>(R) | 0.63 x 0.63 in<br>16 x 16mm    | NXP UCODE 7                              | 128 bit w/ TID** | <ul><li>Healthcare and item-level</li><li>Supply chain, inventory and logisitics</li></ul>  |

<sup>\*</sup>TID Memory = 64-bit includes 32-bit unique serial number.

Drawings not to scale. The chart contained herein is only intended as a suggestive guide for preliminary inlay selection.

Please refer to www.rfid.averydennison.com for complete terms and conditions, including warranty terms, relating to this product. You should periodically review the site as terms and conditions are subject to change without notice.

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### HF RFID INLAYS

13.56 MHz, ISO-15693, 18000-3 Mode 1

| NAME    | SIZE                         | CHIP              | USER MEMORY                   | COMMON APPLICATIONS   |
|---------|------------------------------|-------------------|-------------------------------|---|
| AD-709x | 1.85 x 1.85 in<br>47 x 47 mm | NXP ICODE<br>SLIX | 896 bits EEPROM<br>Read/Write | Library, media, documents and files   |
| AD-714x | 1.77 x 3 in<br>45 x 76 mm    | NXP ICODE<br>SLIX | 896 bits EEPROM<br>Read/Write | <ul><li>Contactless cards and tickets</li><li>Library, media, documents and files</li></ul> |
| AD-730x | 1.22 x .55 in<br>31 x 14 mm  | NXP ICODE<br>SLIX | 896 bits EEPROM<br>Read/Write | Pharmaceutical and healthcare   |

## UNIVERSITY OF ARKANSAS APPROVED INLAY DESIGNS

Arkansas Radio Compliance (ARC)

|          | UNIVERSITY OF ARKANSAS CATEGORIES |                            |                           |                         |                                |   |                                 |
|----------|-----------------------------------|----------------------------|---------------------------|-------------------------|--------------------------------|---|---------------------------------|
| MODEL#   | A<br>DENIM                        | B<br>POLYBAGGED<br>APPAREL | C<br>BOXED<br>ELECTRONICS | D<br>HANGING<br>APPAREL | E<br>VERY LARGE<br>BOXED ITEMS | I<br>DENIM &<br>POLYBAGGED<br>APPAREL<br>(ETSI) | K<br>SMALL<br>APPAREL<br>(ETSI) |
| AD-320u7 | Χ                                 | Χ                          |                           | X                       |                                |   |                                 |
| AD-319eM |                                   |                            |                           |                         |                                | X   |                                 |
| AD-370u7 | Χ                                 | X                          |                           | Χ                       |                                |   |                                 |
| AD-383u7 | Χ                                 | Χ                          | Χ                         | X                       |                                | Χ   | Χ                               |
| AD-382eM | Х                                 | X                          |                           | X                       |                                | X   | X                               |
| AD-381m5 | Х                                 | Χ                          |                           | X                       |                                | Χ   | X                               |
| AD-380iL | Х                                 | X                          |                           | X                       |                                |   |                                 |
| AD-235u7 | Х                                 | Χ                          | X                         | X                       |                                | X   | X                               |
| AD-234eM | Х                                 | X                          | X                         | X                       |                                | X   | X                               |
| AD-233m5 | X                                 | Χ                          | X                         | Χ                       |                                |   |                                 |
| AD-232iL | X                                 | X                          |                           | X                       |                                |   |                                 |
| AD-227m5 | X                                 | Χ                          | X                         | Χ                       | Χ                              | X   | X                               |
| AD-550m5 |                                   |                            |                           |                         | Х                              |   |                                 |

INTELLIGENT, CREATIVE AND SUSTAINABLE SOLUTIONS THAT ELEVATE BRANDS AND ACCELERATE PERFORMANCE THROUGHOUT THE GLOBAL RETAIL SUPPLY CHAIN.

