

# AD Electrify M850

## Overview

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**Frequency Band**

UHF 860 - 960 MHz

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**Chip**

Impinj M850

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**IC Attachment Technology**

Strap Attach

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**Antenna Dimensions**

70 x 14.5 mm / 2.76 x 0.57 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 & Logistics  
Circularity

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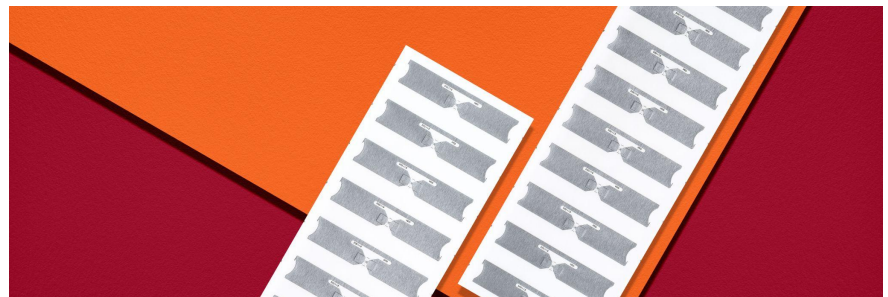
**RoHS**

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

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**REACH**

Regulation (EC) No. 1907/2006



## Excellent performance in high density, close proximity retail environments

AD Electrify M850 inlays from Avery Dennison are designed to excel in high density, close proximity conditions often found in a retail apparel environment. These inlays deliver exceptional performance on the warehouse floor, enabling the rapid and accurate scanning of thousands of tightly packed garments in high-stacked cartons and pallets. In turn, retailers using this inlay are able to manage greater inventory levels than ever while maintaining precise tracking.

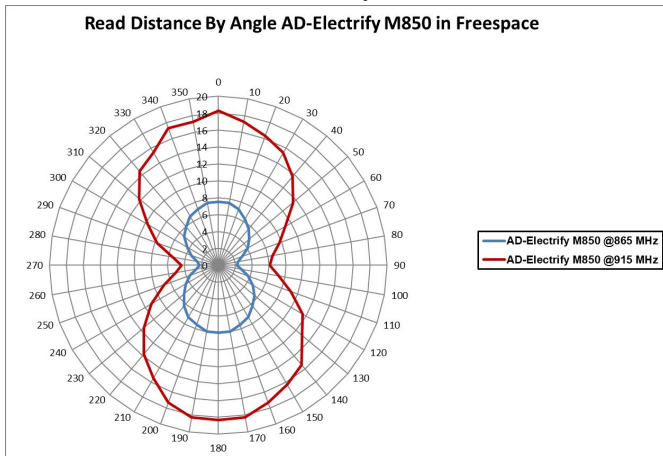
AD Electrify M850 inlays feature 96-bit of EPC memory and 32-bit of user memory and a 96-bit unique factory locked TID number. A 48-bit unique serial number is factory-encoded into the TID. Delivery formats include dry, wet and pressure sensitive label.

Like all RFID products from Avery Dennison, AD Electrify M850 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. The RFID Lab at Auburn University has awarded Avery Dennison its first comprehensive and significant ARC accreditation for quality.

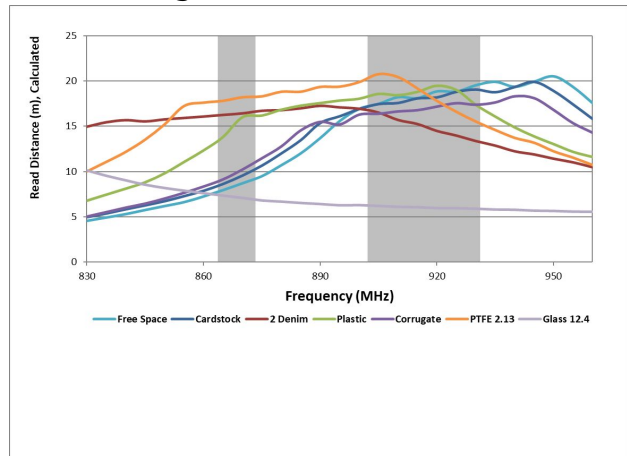
## Technical features

|   |   |   |   |
|---|---|---|---|
| Chip / IC Attachment Technology             | Impinj M850 / Strap Attach              |   |   |
| EPC and User Memory                         | 96-bit and 32-bit                       |   |   |
| TID Memory                                  | 96-bit / 48-bit unique serial number    |   |   |
| Product Code                                | IL-610610                               | IL-610612                               | IL-610614                               |
| Delivery Format                             | Dry inlay +                             | Wet inlay                               | Label                                   |
| Die-Cut Dimension                           | -                                       | 73 x 17.5 mm /<br>2.874 x 0.688 in      | 73 x 17.5 mm /<br>2.874 x 0.688 in      |
| Inlay Substrate                             | 40# Paper                               | 40# Paper                               | 40# Paper                               |
| Face Sheet                                  | -                                       | -                                       | TT2C                                    |
| Total Thickness (over chip & release liner) | 11.5 - 13.5 mils /<br>292 - 343 microns | 12.7 - 14.7 mils /<br>323 - 373 microns | 16.2 - 18.2 mils /<br>411 - 462 microns |
| Standard Pitch                              | 25.4 mm / 1.0 in                        | 25.4 mm / 1.0 in                        | 25.4 mm / 1.0 in                        |
| Web Width                                   | 82.55 mm / 3.25 in                      | 82.55 mm / 3.25 in                      | 82.55 mm / 3.25 in                      |
| Core Size                                   | 76 mm / 3 in                            | 76 mm / 3 in                            | 76 mm / 3 in                            |
| Quantity / Reel                             | 3,000 pcs/reel                          | 7,000 pcs/reel                          | 5,000 pcs/reel                          |
| Size of Roll                                | MAX OD: 15.5"                           | MAX OD: 13"                             | MAX OD: 8"                              |
| Operating Temperature                       | -40 °C to 85 °C / -40 °F to 185 °F      |   |   |
| On-Metal                                    | Non metal                               |   |   |
| Certificate                                 | <a href="#">ARC Specification Guide</a> |   |   |

## 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:



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**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.

