

# AD-161r6

## Overview

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**Frequency Band**

UHF 860 - 960 MHz

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**Chip**

Impinj Monza R6

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**Antenna Dimensions**

95 x 4 mm / 3.74 x 0.16 in

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**International Standard**

ISO/IEC 18000-63 Type C

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**Industry Segments**

Logistics  
Healthcare

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**Applications**

Inventory and Logistics  
Asset Tracking  
Pharmaceutical and Healthcare

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**RoHs**

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

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## Excellent read ranges in many applications

AD-161r6 inlays from Avery Dennison are designed for tagging a wide range of items, particularly houseware, beauty & personal care, and pharmaceuticals.

Built for the UHF frequency band, the inlays feature a 95 x 4 mm antenna with a global design. It ensures excellent broadband performance (860-930 MHz) that can achieve class-leading read distances on high dielectric materials such as glass, plastics and near liquid.

The slender form factor and rectangular shape further contribute to the versatile use in retail oriented applications which increase inventory accuracy and supply chain agility, and enhance visibility across all channels.

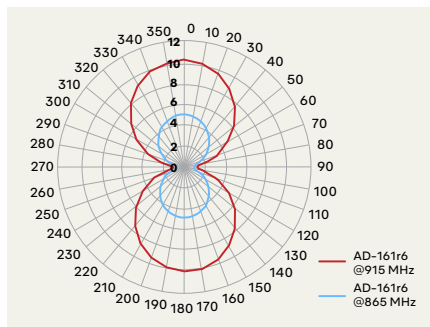
AD-161r6 inlays are equipped with Impinj Monza® R6 integrated circuit (IC) that further contributes to the products due to its excellent performance on glass and plastic materials. The chip comes with 96-bit EPC memory, and 96-bit of serialized TID with a 48-bit unique serial number.

Like all RFID products from Avery Dennison, AD-161r6 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.

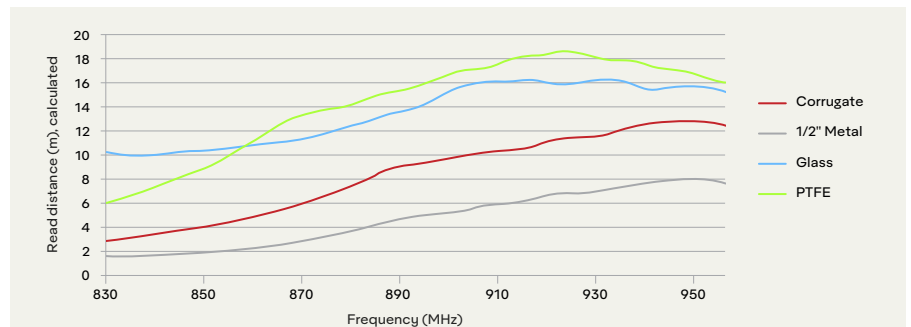
## Technical features

Chip	Impinj Monza R6	
EPC and User Memory	96-bit and n/a	
TID Memory	96-bit / 48-bit unique serial number	
Product Code	RF600585	RF600586
Delivery Format	Dry inlay	Wet inlay
Die-cut Dimension	-	97 x 6 mm / 3.82 x 0.24 in
Inlay Substrate	PET	
Total Thickness	9 - 11 mils / 229 - 279 microns	11 - 13 mils / 279 - 330 microns
Standard Pitch	22.23 mm / 0.875 in	
Web Width	100 mm / 4 in	
Core Size	152 mm / 6 in	
Quantity / Reel	25000 pcs/reel	15000 pcs/reel
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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RoHS

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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.

