

AD-163u8

Overview

Frequency Band

UHF 860 - 960 MHz

Chip

NXP UCODE 8

Antenna Dimensions

60 x 4 mm / 2.36 x 0.16 in

International Standard

ISO/IEC 18000-63 Type C

Industry Segments

Beauty and Personal Care
Healthcare

Applications

Home Essentials

RoHs

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



Optimum read ranges in challenging environments

AD-163u8 inlays from Avery Dennison are designed for tagging a wide range of items, particularly housewares, beauty & personal care, and pharmaceuticals.

Built for the UHF frequency band, the inlays feature a 60 x 4 mm antenna with a global design. It ensures excellent broadband performance (860-930 MHz) that can achieve up to 7 meters read distance on high dielectric materials such as glass, plastics and near liquid (results may vary).

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

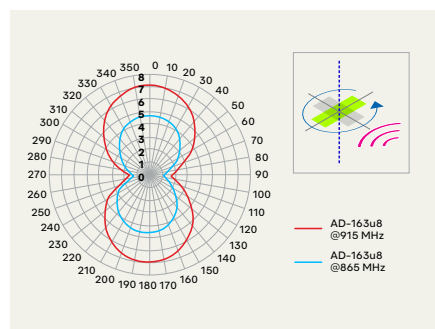
AD-163u8 inlays are equipped with UCODE 8 ICs from NXP, featuring 128-bit of EPC memory and a 48-bit unique serialized TID Number. The IC offers a Self Adjust feature to maximize product performance in challenging environments and has an improved read and write sensitivity and faster encoding speed compared to NXP UCODE 7. Delivery formats include dry, wet and label / sticker.

Like all RFID products from Avery Dennison, AD-163u8 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.

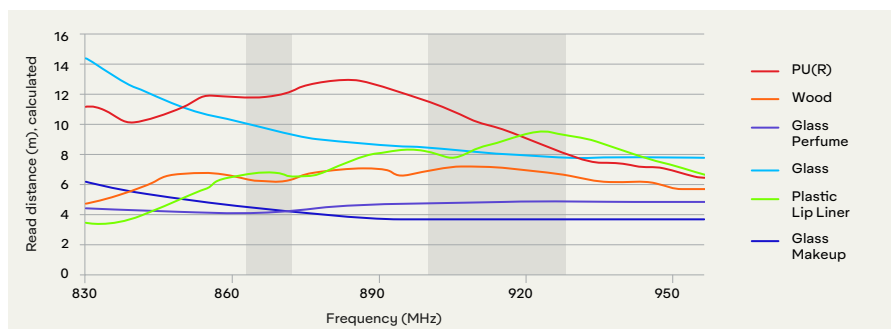
Technical features

Chip	NXP UCODE 8		
EPC and User Memory	128-bit and n/a		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	RF601236	RF601235	RF100479
Delivery Format	Dry inlay	Wet inlay	Label / sticker
Die-cut Dimension	-	64 x 6 mm / 2.52 x 0.24 in	64 x 6 mm / 2.52 x 0.24 in
Inlay Substrate	PET		
Face Sheet	-	-	White BOPP
Total Thickness	6 - 8 mils / 149 - 199 microns	8 - 10 mils / 210 - 260 microns	11 - 13 mils / 268 - 319 microns
Standard Pitch	15.88 mm / 0.625 in	15.88 mm / 0.625 in	25.4 mm / 1 in
Web Width	70.4 mm / 3 in		
Core Size	76 mm / 3 in		
Quantity / Reel	20,000 pcs/reel	20,000 pcs/reel	7,008 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

rfid.averydennison.com/contact

North America: +1-866-903-7343 (toll free US)

International: +1-678-617-2359

RoHS

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Warranty: Please refer to Avery Dennison standard terms and conditions: 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.