

AD-183 U9

Overview

Frequency Band

UHF 860 - 960 MHz

Chip

NXP UCODE 9

Antenna Dimensions

Ø 26 mm / 1.02 in

International Standard

ISO/IEC 18000-63 Type C

Industry Segments

Apparel
Beauty and Personal Care

Applications

Home Essentials
Personal Care Products
Asset Tracking

RoHS

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

REACH

Regulation (EC) No. 1907/2006



High performance item tagging

AD-183 U9 inlays from Avery Dennison are designed for tagging a broad range of retail items, particularly apparel and cosmetics.

Built for the UHF frequency band, the inlays feature a 26 mm diameter antenna with a global design for excellent broadband performance (860-930 MHz) that achieves class-leading read distances on a wide array of surfaces and materials.

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

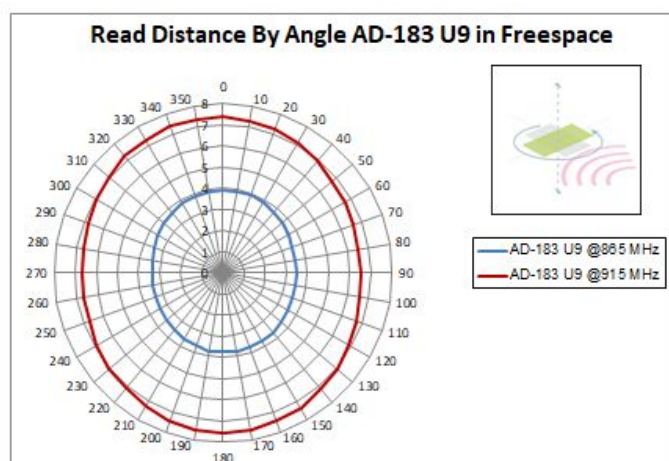
AD-183 U9 inlays are equipped with the UCODE 9 IC from NXP, featuring 96-bits of EPC memory and a 96-bit unique serialized TID Number. Delivery format is dry inlay, wet inlay or paper label.

Like all RFID products from Avery Dennison, AD-183 U9 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.

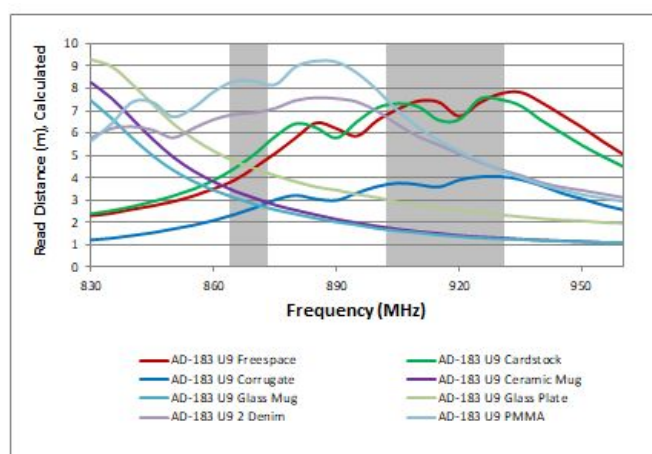
Technical features

Chip	NXP UCODE 9			
EPC and User Memory	96-bit and n/a			
TID Memory	96-bit / 48-bit unique serial number			
Product Code	RF602211 / IL-605984	RF602212 / IL-605630	RF100993 / IL-606134	RF100994 / IL-612867
Delivery Format	Dry Inlay	Wet Inlay	Label	Label
Die-Cut Dimension	–	29.25 mm / 1.152 in	29.25 mm / 1.152 in	29.25 mm / 1.152 in
Inlay Substrate	Opaque PET	Opaque PET	Paper	Opaque PET
PET Overlamine	1.2 mil PET	N/A	N/A	1.2 mil PET
Face Stock	N/A	N/A	TT2C	2 mil White TC PET
Total Thickness	10 - 13 mils / 254 - 330 microns	10 - 13 mils / 254 - 330 microns	16 - 18 mils / 399 - 450 microns	15 - 17 mils / 381 - 432 microns
Standard Pitch	50.8 mm / 2 in	50.8 mm / 2 in	50.8 mm / 2 in	50.8 mm / 2 in
Web Width	36 mm / 1.4 in	36 mm / 1.4 in	36 mm / 1.4 in	36 mm / 1.4 in
Core Size	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	9,958 pcs/reel	3,341 pcs/reel	2,366 pcs/reel	2,500 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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Connect with us on:



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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.