

AD-190u8

Overview

Frequency Band

UHF 860 - 960 MHz

Chip

NXP UCODE 8

Antenna Dimensions

22 x 12.5 mm / 0.86 x 0.49 in

International Standard

ISO/IEC 18000-63 Type C

Industry Segments

Apparel
Healthcare
Beauty and Personal Care

Applications

Fashion Jewelry and Sunglasses
Pharmaceutical and Healthcare
Personal Care Products

RoHS

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

REACH

Regulation (EC) No. 1907/2006



Exceptional performance across a wide range of dielectrics

AD-190u8 UHF RFID inlays from Avery Dennison are recommended for tagging a wide range of smaller products.

The 22 x 12.5 mm antenna is a global design with excellent broadband performance (860-930 MHz) that can achieve up to 3 meters read distance on popular beauty items such as fashion jewelry and cosmetics, as well as pharmaceuticals.

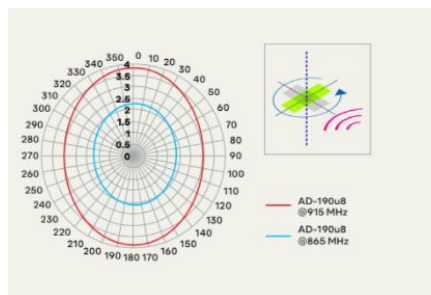
AD-190u8 inlays are equipped with a UCODE 8 ICs from NXP, featuring 128-bit of EPC memory and 48-bit unique serialized TID number. Delivery formats include dry inlay, wet inlay, and SmartFace Label.

Like all RFID products from Avery Dennison, AD-190u8 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.

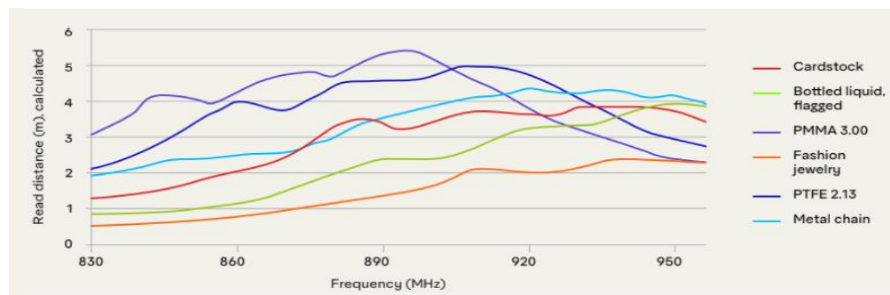
Technical features

Chip	NXP UCODE 8	
EPC and User Memory	128-bit and n/a	
TID Memory	96-bit / 48-bit unique serial number	
Product Code	RF601393	RF601283
Delivery Format	Dry inlay	Wet inlay
Die-Cut Dimension	–	24 x 16 mm / 0.95 x 0.61 in
Inlay Substrate	PET	PET
Total Thickness	10 - 12 mils / 261 - 312 microns	11 - 13 mils / 270 - 320 microns
Standard Pitch	19.05 mm / 0.75 in	19.05 mm / 0.75 in
Web Width	36 mm / 1 in	
Core Size	76 mm / 3 in	
Quantity / Reel	15,000 pcs/reel	13,000 pcs/reel
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F	
On-Metal	Non metal	
Certificates	ARC	

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.