

AD Dogbone® U9 Pure™

Overview

Frequency Band

UHF 860 - 960 MHz

Chip Attachment Technology

Direct Chip Attach

Chip

NXP UCODE 9

Antenna Dimensions

94 x 24mm / 3.70 x 0.95 in

International Standard

ISO 18000-63, EPC Class 1 Gen 2

Industry Segments

Industrial Applications
Automotive

Applications

Inventory Management
Supply Chain Management

RoHS

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

REACH

Regulation (EC) No. 1907/2006

End of Life

EU Paper recyclability: PTS-
RH021:97/2012
US Paper Recyclability: SBS-E Part I
(Repulability) and Part II (Recyclability)



Excellent global performance even on difficult-to-tag materials

AD Dogbone® U9 Pure™ inlays are designed for industry and supply-chain applications, offering excellent performance on difficult-to-tag materials e.g. cardboard and plastic, glass and in other demanding, close-coupling environments.

AD Dogbone® U9 Pure™ inlays have a good tolerance to the detuning effects of high dielectric materials and provide effective global performance. They can be easily converted into end-application usage, and are available in dry and wet delivery format. AD Dogbone® U9 Pure™ is equipped with NXP UCODE 9 IC and offers a self adjust feature to maximize product performance in challenging environments.

Avery Dennison inlays and tags 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.

Sustainability - 100% Plastic Free

Pure™ inlays are produced via innovative antenna manufacturing technology where aluminium antenna is made directly on a paper making the products 100% plastic free, and according to an LCA (Life Cycle Analysis) study by an independent institute provide typically 70-90% savings in carbon footprint compared to traditional etching method. The manufacturing process also enables recycling excess materials and reducing the total amount of materials while maintaining the overall performance of the product.

The impact of the Pure™ paper-based inlays and tags in cardboard recycling has been verified by a third-party laboratory in the EU against PTS-RH 021:97/2012. In the US, the hangtag construction is certified by West Michigan University against SBS-E Part I (repulpability) and Part II (recyclability). [How2Recycle®](#) has "pre-qualified*" the RFID construction when applied to a paper hangtag and determined that the structure is eligible for a widely recyclable label.



[rfid.averydennison.com](https://www.rfid.averydennison.com)

*How2Recycle: "Additional components, product application, or other attributes may change the final recyclability of the package. Must be a How2Recycle member and submit a label request to use the label on pack".

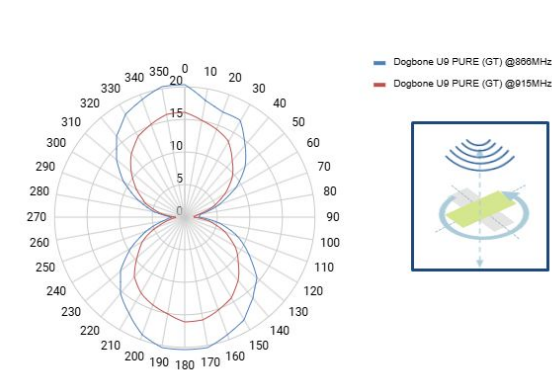
Technical features

Chip	NXP UCODE 9	
Chip Attachment Technology	Direct Chip Attach	
EPC and User Memory	96-bit and 0-bit	
TID Memory	96-bit / 48-bit unique serial number	
Product Code*	IL-610357	IL-612147
Delivery Format	Dry inlay	Wet inlay
Die-Cut Dimension	–	97x27 mm / 3.82x1.10 in
Inlay Substrate**	Paper 64	Paper 64
Face Sheet	–	–
Total Thickness (excluding IC and Interleaf)	77 µm	97 µm
Standard Pitch	30 mm / 1.18 in	30 mm / 1.18 in
Web Width	100 mm / 3.94 in	100 mm / 3.94 in
Core Size	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	10,000 pcs / reel TBD pcs / box	5,000 pcs / reel TBD pcs / box
Operating Temperature	-40°C to 85°C / -40°F to 185°F	
Certificate	N/A	

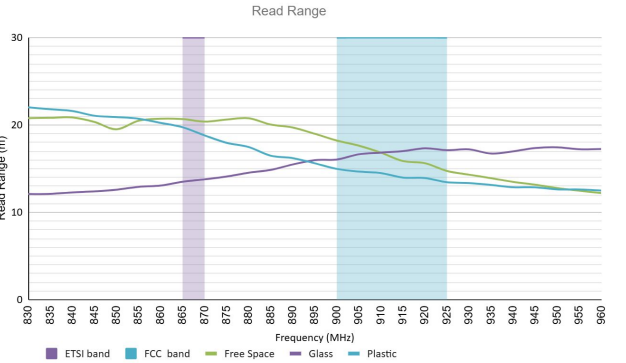
* Other product codes available ** Available also with other papers

Orientation sensitivity

Read Distance on Free Space



Read range



All graphs are indicative: performance in real-life applications may vary.

Contact information
rfid.averydennison.com/contact
+1-678-617-2359

Connect with us on: [in](#) [f](#) [ig](#)



© 2024 Avery Dennison Corp. All rights reserved. 170 Monarch Lane, Miamisburg, OH 45342, USA Third party trademarks and/or trade names used herein are the property of their respective owner(s). Some of the trademarks appear for identification purposes only.
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.