SOLTRONIC
THE RFID COMPANY

Product Data Sheet

AD Web U9 Pure™

Overview

Frequency Band
UHF 860 - 960 MHz

Chip Attachment Technology
Direct Chip Attach

Chip
NXP UCODE 9

Antenna Dimensions
50 x 30 mm / 1.97 x 1.18 in

International Standard
ISO 18000-63, EPC Class 1 Gen 2

Industry Segments
Apparel
Logistics

Applications
Supply Chain Management
Home Essentials
Brand Protection

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 (Repulpability) and Part II (Recyclability)

Optimized size and shape for apparel applications

AD Web U9 Pure™ inlays are designed for the unique identification of items such as apparel and home essentials. They are suitable especially for item-level retail, logistics and supply chain applications.

AD Web U9 Pure™ inlays are compact and ideally shaped inlays for apparel hangtags providing reliable readability, and excellent performance even when stacked in close proximity. AD Web U9 Pure™ tags and inlays designed for high performance in retail and apparel applications. Retailers and brand owners can deploy the AD Web Pure™ tags for apparel globally, as they comply with frequency regulations set up in the US (FCC), EU (ETSI) and Asia.

Avery Dennison inlays 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, especially in the retail environment.

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.

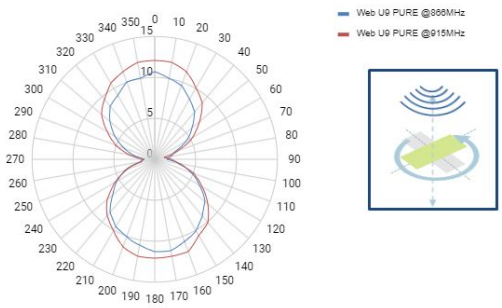
Product Data Sheet

Technical features

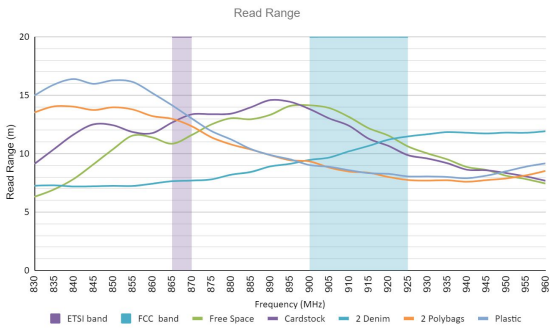
Chip	NXP UCODE 9		
Chip Attachment Technology	Direct Chip Attach		
EPC and User Memory	96-bit and 0		
TID Memory	96-bit / 48-bit unique serial number		
Product Code*	IL-609637	IL-609644	IL-609645
Delivery Format	Dry inlay	Wet inlay	Label
Die-Cut Dimension	-	54 x 33 mm / 2.13 x 1.30 in	54 x 33 mm / 2.13 x 1.30 in
Inlay Substrate**	40# Paper	40# Paper	40# Paper
Face Sheet	-	-	Mid-gloss paper
Overall Thickness (excluding IC and siliconized paper)	73 µm	93 µm	163 µm
Standard Pitch	36 mm / 1.42 in	36 mm / 1.42 in	36 mm / 1.42 in
Web Width	60 mm / 2.36 in	60 mm / 2.36 in	60 mm / 2.36 in
Core Size	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	17,000 pcs/reel 68,000 pcs/box	5,000 pcs/reel 10,000 pcs/box	3,000 pcs/reel 9,000 pcs/reel
Operating Temperature Certificate	-40 °C to 85 °C / -40 °F to 185 °F		
	ARC Specification Guide		

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

Orientation sensitivity



Read range



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

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recyclable
passes WMU standard
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PAPER TAG
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REACH COMPLIANCE
RoHS