

AD Solar U9

Overview

Frequency Band

UHF 860 - 960 MHz

Chip

NXP UCODE 9

Chip Attachment Technology

Strap Attach

Antenna Dimensions

70 x 14.5 mm / 2.76 x 0.57 in

International Standard

ISO/IEC 18000-63 Type C

Industry Segments

Agricultural Applications
Industrial Applications

Applications

Supply Chain Management
Inventory

RoHS

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

REACH

Regulation (EC) No. 1907/2006



Fit for a reliable tagging in harsh environments with a lower carbon footprint

AD Solar U9 labels leverage the capabilities of NXP's UCODE 9 chip, and offer excellent performance in demanding environments and on different materials. Labels has been designed for Agricultural and industrial applications and hence their weathering resistance has been tested with a specific testing protocol to simulate outdoor durability up to 12 months. 1000 hours of environmental exposure consisting of long periods of simulated sunlight, high humidity and elevated temperatures did not affect to the RF performance of the labels.

AD Solar U9 provide maximum performance on a given footprint of 70 x 14.5 mm and feature 96-bit of EPC memory as well as a 96-bit unique factory locked TID number. A 48-bit unique serial number is factory-encoded into the TID. Delivery format is pressure sensitive label.

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.

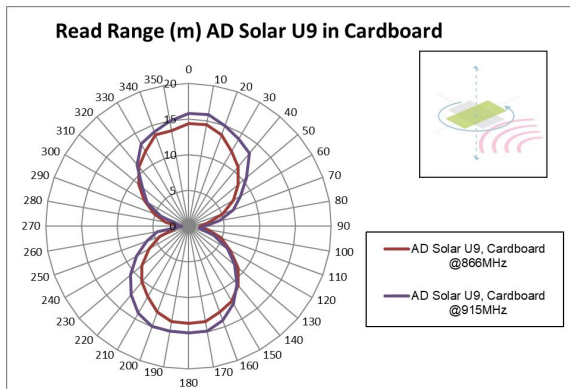
Sustainability ~ 30% recycled PET content

AD Solar U9 is manufactured through a die-cutting process, whereby the antenna is directly adhered on recycled PET. According to a LCA (Life Cycle Analysis) study by an independent institute, this process is providing 70-90% savings in carbon footprint compared to the traditional etching method. At least 30% of the total product weight supplied contains recycled PET content. The white PET antenna substrate is made out of 70% of chemically certified recycled PET, without compromising any performance or reliability compared to the product using virgin PET materials.

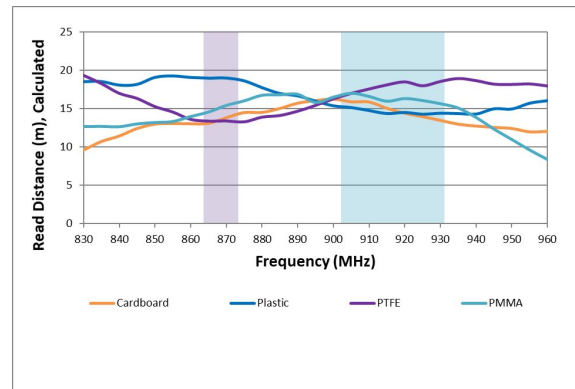
Technical features

Chip	NXP UCODE 9	
Chip Attachment Technology	Strap Attach	
EPC and User Memory	96-bit and n/a	
TID Memory	96-bit / 48-bit unique serial number	
Product Code	3009289 / IL-608785	3009291 / IL-608786
Delivery Format	Label	Label
Die-Cut Dimension	86.36 x 17.68 mm / 3.40 x 0.70 in	86.36 x 17.68 mm / 3.40 x 0.70 in
Inlay Substrate	Opaque PET (70 % Recycled)	Opaque PET (70 % Recycled)
Standard Pitch	22.23 mm / 0.88 in	22.23 mm / 0.88 in
Web Width	89.38 mm / 3.52 in	89.38 mm / 3.52 in
Core Size	76 mm / 3 in	76 mm / 3 in
Minimum delivery yield	99%	100%
Quantity / Reel	16,500 pcs/reel 33,000 pcs/box	17,500 pcs/reel 35,000 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.

