

# AD Squarewave U9

## Overview

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**Frequency Band**

UHF 860 - 960 MHz

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**IC Attachment Technology**

Strap Attach

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**Chip**

NXP UCODE 9

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**Antenna Dimensions**

93 x 11 mm / 3.66 x 0.43 in

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**International Standard**

ISO/IEC 18000-63 Type C

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**Industry Segments**

Logistics

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**Applications**

Supply Chain Management  
Inventory and Logistics

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**RoHS**

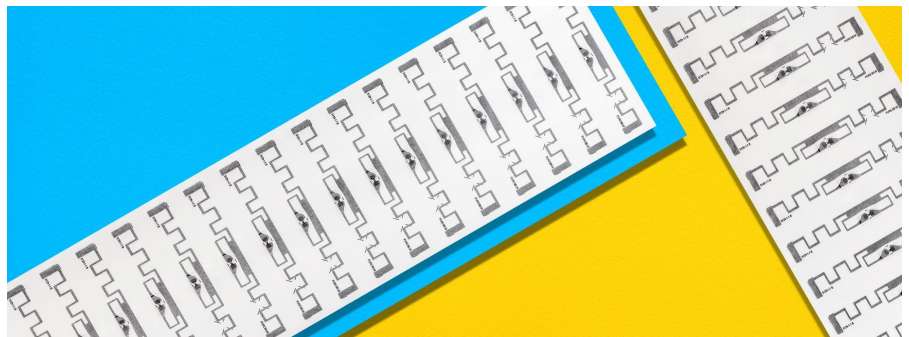
EU Directive 2011/65/EU and  
Directive (EU) 2015/863

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**REACH**

Regulation (EC) No. 1907/2006

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## Ideal for a wide range of items in logistics

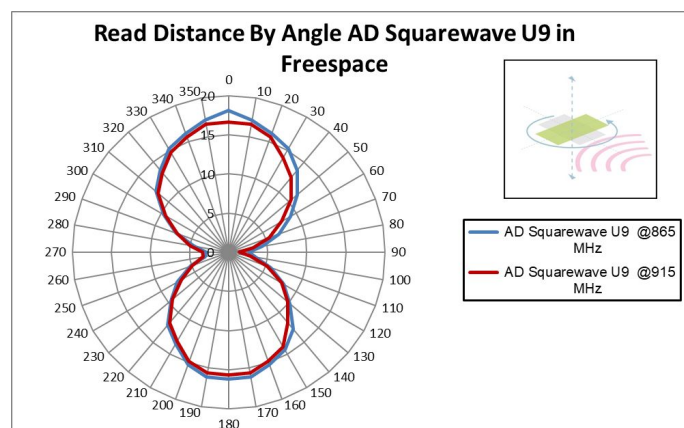
Avery Dennison's AD Squarewave U9 inlays are designed for supply chain, inventory, and logistics. They offer maximum and efficient broadband performance in a small 93 x 11 mm size. Featuring the NXP UCODE 9, they include 96-bit EPC memory, a 96-bit TID, and a unique 48-bit serial number. With a read range of up to 20 meters, they provide reliable performance in various logistics settings. Delivery formats include Dry+ and Wet inlay formats.

Our 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, enhancing RFID usage for difficult-to-tag materials.

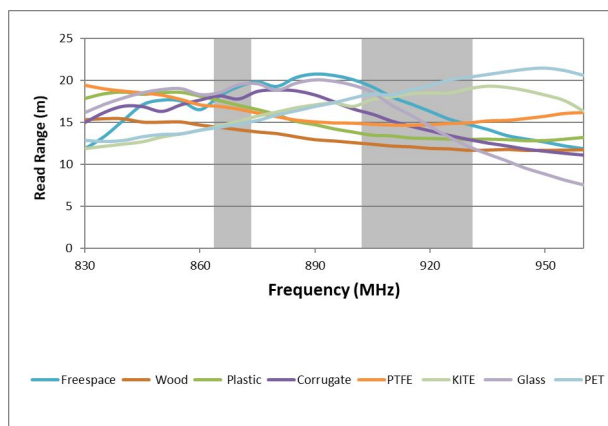
## Technical features

Chip / IC Attachment Technology	NXP UCODE 9 / Strap Attach	
EPC and User Memory	96-bit and n/a	
TID Memory	96-bit / 48-bit unique serial number	
Product Code	RF602945 / IL-610734	RF602947 / IL-610736
Delivery Format	Dry inlay+	Wet inlay
Die-Cut Dimension	–	96 x 14 mm / 3.78 x 0.55 in
Inlay Substrate	50um Opaque PET	50um Opaque PET
Face Sheet	PET	–
Total thickness (with the chip and release liner)	10.3 - 12.3 mils / 262 - 312 microns	11.5 - 13.5 mils / 292 - 343 microns
Standard Pitch	22.2 mm / 0.875 in	22.2 mm / 0.875 in
Web Width	101.6 mm / 4 in	101.6 mm / 4 in
Core Size	76 mm / 3 in	76 mm / 3 in
Inlays per Roll	33,706 pcs/reel	21,240 pcs/reel
Size of Roll	15.5 in MAX OD	13 in MAX OD
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F	
Certificates	N/A	

## 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](http://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.