

AD Defender U9

Dual UHF + EAS

Overview

Frequency Band

UHF 860 - 960 MHz

Chip

NXP UCODE 9

IC Attachment Technology

Strap Attach

Antenna Dimensions

66 x 27 mm / 2.598 x 1.063 in

International Standard

ISO/IEC 18000-63 Type C

Industry Segments

Apparel
Supply Chain
Logistics

Applications

Retail
Supply Chain Management
Theft Prevention

RoHS

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

REACH

Regulation (EC) No. 1907/2006



Combining UHF RFID and EAS

AD Defender U9 inlays from Avery Dennison are a unique dual-technology design that incorporates a UHF RFID inlay and an Electronic Article Surveillance (EAS) tag in a single die-cut label.

The product combines item-level tracking capabilities for a wide range of retail apparel products with a secondary loss prevention functionality and is available in a paper label format.

AD Defender U9 inlays are equipped with the NXP UCODE 9 IC that provides 96-bit EPC memory. TID memory is 96-bit with a 48-bit unique serial number.

Like all RFID products from Avery Dennison, AD Defender U9 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.

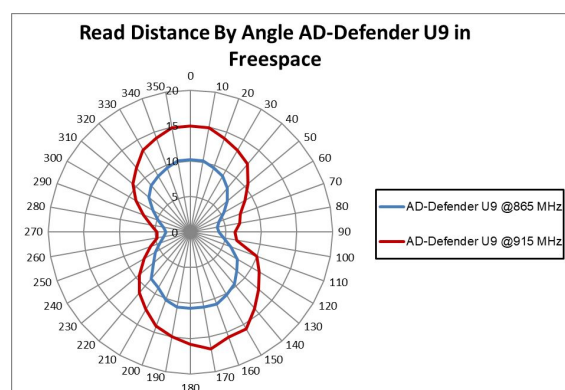
Technical features

Chip / IC Attachment Technology	NXP UCODE 9 / Strap Attach
EPC and User Memory	96-bit EPC
TID Memory	96-bit / 48-bit unique serial number
Product Code	IL-610074
Delivery Format	Label
Die-Cut Dimension	70 x 31 mm / 2.76 x 1.22 in
Inlay Substrate	40# Paper
Face Sheet	TT2C
Total Thickness (over chip & release liner)	17.4 – 19.4 mils / 441.96 – 492.76 microns
Standard Pitch	50.8 mm / 2 in
Web Width	74 mm / 2.91 in
Core Size	76.2 mm / 3 in
Size of Roll	MAX OD: 8"
Quantity / Reel	1,500 pcs/reel
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F
On-Metal	Non-metal

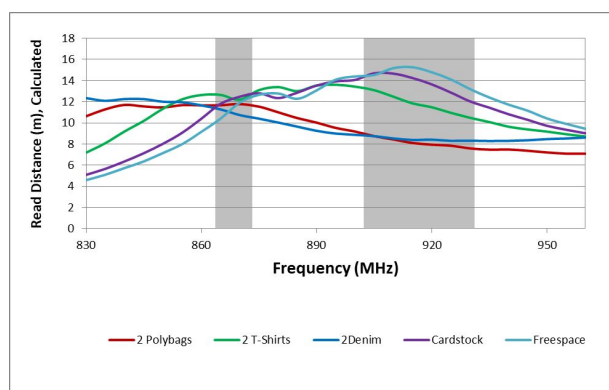
Technical features - EAS Component

EAS Label	NeDap RF NT5023/W/8KR
Size	50 x 23 mm / 1.97 x 0.91 in
Resonance Frequency	8.1 MHz ±4%, Compatible with all 8.2 MHz EAS systems

Orientation sensitivity



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:



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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.