AD Minidose U8

Overview

Frequency Band
UHF 860 - 960 MHz

Chip
NXP UCODE 8

Antenna Dimensions
12 x 22 mm / 0.47 x 0.87 in

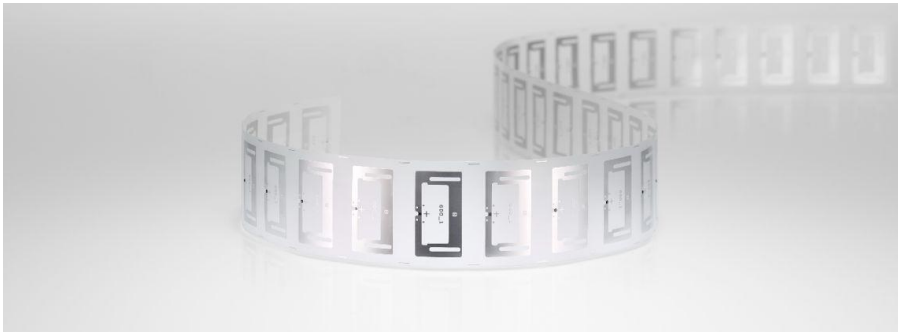
International Standard
ISO/IEC 18000-63, EPC Gen 2 V2

Industry Segments
Healthcare
Apparel
Beauty and Personal Care

Applications
Pharma and Healthcare
Package Tracking
Fashion Jewelry and Sunglasses

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

REACH
Regulation (EC) No. 1907/2006



Shrinks pharma tag size

AD Minidose U8 inlays and tags are designed for the unique identification of a wide range of smaller products. Specifically, Minidose U8 provides excellent performance when tagging the smaller-sized items used in pharmaceutical and healthcare applications, including syringes, plastic and glass vials, and many varied packaging formats.

These inlays and tags, equipped with NXP's UCODE® 8 IC and a small form factor antenna (12 x 22mm), are a globally available design with excellent broadband performance in the 860-930 MHz frequency range. They provide high read reliability and enhanced performance, even when small tagged items are densely packed in close proximity.

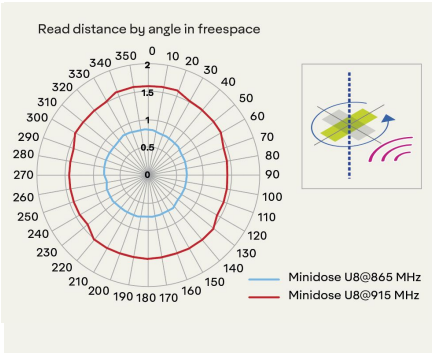
Minidose U8 is approved for use in healthcare applications by Auburn University's RFID Lab. It is the first and smallest inlay in the market which complies with ARC Category S for pharmaceutical applications. The product is available with the NXP UCODE 8 chip, which has 128-bit EPC memory and is compatible with the global GS1 UHF Gen2v2 standard, standardized by ISO/IEC as 18000-63.

Avery Dennison Smartrac's 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.

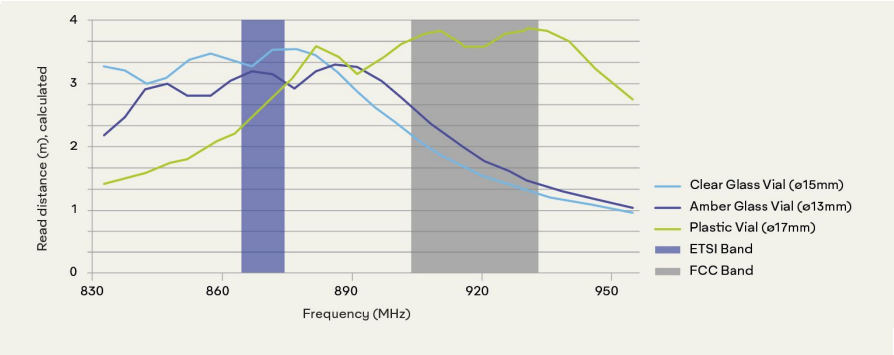
Technical features

Chip	NXP UCODE8	
EPC and User Memory	128-bit	
TID Memory	96-bit / 48-bit unique serial number	
Product Code	3008007 / IL-604002	3007987 / IL-603984
Delivery Format	Dry inlay +	Wet inlay +
Die-Cut Dimension	–	14 x 24 mm / 0.55 x 0.94 in
Inlay Substrate	PET	PET
Face Sheet	Clear PET 12	Clear PET 12
Standard Pitch	27 mm / 1.06 in	27 mm / 1.06 in
Web Width	27 mm / 1.06 in	27 mm / 1.06 in
Core Size	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	5,000 pcs/reel	5,000 pcs/reel
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F	40 °C to 85 °C / -40 °F to 185 °F
Certificate	ARC Specification Guide	

Orientation sensitivity



Read range



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

Contact information
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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.