AD-553 U8

Overview

Frequency Band
UHF 860 - 960 MHz

Chip
NXP UCODE 8

Antenna Dimensions
38 x 76 mm / 1.50 x 2.99 in

International Standard
ISO/IEC 18000-63 Type C

Industry Segments
Aviation

Applications
Baggage Tracking

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

REACH
Regulation (EC) No. 1907/2006

The aviation asset tracking solution

AD-553u8 inlays from Avery Dennison is a top choice for tagging aviation baggage in accordance with IATA Resolution 753. The product provides excellent broadband (860-960 MHz) read range performance across multiple regions including Europe, Asia-Pacific and the Americas.

The 38 x 76mm design exhibits long distance read capture from all directions, regardless of tag-to-reader alignment and meets category performance requirements for Spec U under Auburn University's ARC testing program.

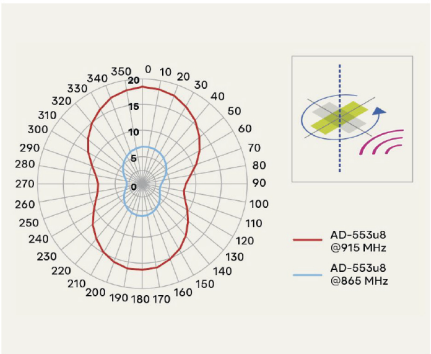
AD-553u8's UCODE 8 chip from NXP features 128-bit of EPC memory and a 96-bit unique factory-locked TID number. A 48-bit unique serial number is factory-encoded into the TID. Available delivery formats include both dry inlay and wet inlay.

Like all RFID products from Avery Dennison, AD-553u8 inlays are manufactured according to the industry's highest quality standards, as confirmed by the RFID Lab at Auburn University: The inspection body awarded Avery Dennison its first comprehensive and significant ARC accreditation for quality.

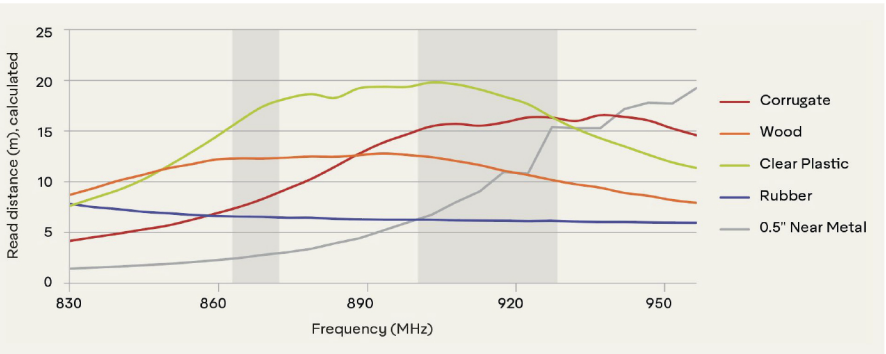
Technical features

Chip	NXP UCODE 8	
EPC and User Memory	128-bit and n/a	
TID Memory	96-bit / 48-bit unique serial number	
Product Code	RF602234 / IL-604494	RF602236 / IL-605627
Delivery Format	Dry inlay	Wet inlay
Die-Cut Dimension	–	41 x 79 mm / 1.62 x 3.12 in
Inlay Substrate	40# Paper	40# Paper
Total Thickness	11.5 - 13.5 mils / 292 - 343 microns	13.9 - 15.9 mils / 353 - 404 microns
Standard Pitch	95.25 mm / 3.75 in	95.25 mm / 3.75 in
Web Width	45 mm / 1.772 in	45 mm / 1.772 in
Core Size	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	7,861 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
On-Metal	Non metal	Non metal
Certificates	ARC Specification Guide	

Orientation sensitivity



Read range



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