AD-23x U9 Slim

Overview

Frequency Band
UHF 860 - 960 MHz

Chip
NXP UCODE 9

IC Attachment Technology
Strap Attach

Antenna Dimensions
70 x 10.5 mm / 2.756 x 0.413 in

International Standard
ISO/IEC 18000-63 Type C

Industry Segments
Apparel
Industrial Applications

Applications
Brand Protection
Supply Chain Management
Home Essentials

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

Fit for a wide variety of RFID tagging applications

AD-23x U9 Slim inlays from Avery Dennison provide maximum performance on a given footprint of 73 x 13.5 mm. Leveraging the capabilities of NXP's UCODE 9 chip, the Gen2 UHF RFID inlays are suitable for a wide variety of RFID tagging applications, including supply chain, inventory and logistics, apparel and home essentials.
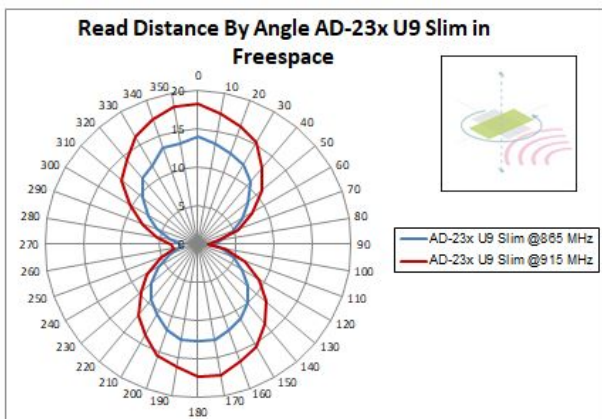
AD-23x U9 Slim inlays feature 96-bit of EPC memory and a 96-bit unique factory locked TID number. A 48-bit unique serial number is factory-encoded into the TID. Delivery formats include dry, wet and pressure sensitive label.

Like all RFID products from Avery Dennison, AD-23x U9 Slim 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.
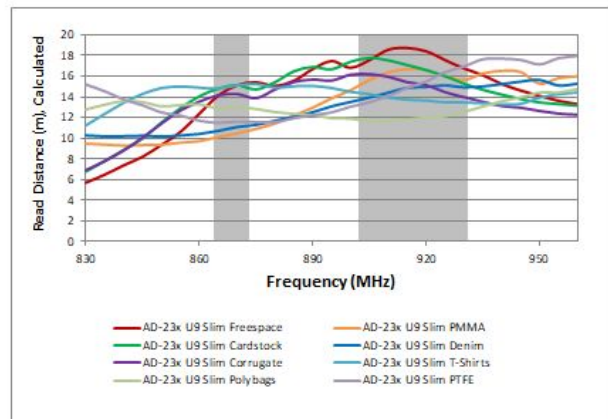
Technical features

Chip / 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	IL-601588	IL-610590	IL-610592
Delivery Format	Dry inlay +	Wet inlay	Label
Die-Cut Dimension	-	73 x 13.5 mm / 2.874 x 0.532 in	73 x 13.5 mm / 2.874 x 0.532 in
Inlay Substrate	40# Paper	40# Paper	40# Paper
Face Sheet	-	-	TT2C (FASSON®) Bright White
Total Thickness	11.5 - 13.5 mils / 292-343 microns	12.7 - 14.7 mils / 323-374 microns	16.2 – 18.2 mils / 411.48 - 462.28 microns
Standard Pitch	15.88 mm / 0.625 in	15.88 mm / 0.625 in	19.05 mm / 0.75 in
Web Width	82.55 mm / 3.25 in	82.55 mm / 3.25 in	82.55 mm / 3.25 in
Core Size	76.2 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	TBD pcs/reel	TBD pcs/reel	TBD pcs/reel
Size of Roll	MAX OD: 15.5"	MAX OD: 13"	MAX OD: 8"
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F		
On-Metal	Non metal		
Certificate	ARC: Spec N, Spec Q, Spec M, Spec G, Spec F, Spec L, Spec J, Spec I, Spec K, Spec W1, Spec W2, Spec W3, Spec W4, Spec W5, Spec W6, and Spec Y		

Orientation Sensitivity

Read Range

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

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