Avery Dennison
Smartrac
Product Data Sheet

AD-23x U9

Overview

Frequency Band
UHF 860 - 960 MHz

Chip
NXP UCODE 9

Antenna Dimensions
70 x 14.5 mm / 2.76 x 0.57 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 inlays from Avery Dennison provide maximum performance on a given footprint of 70 x 14.5 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.
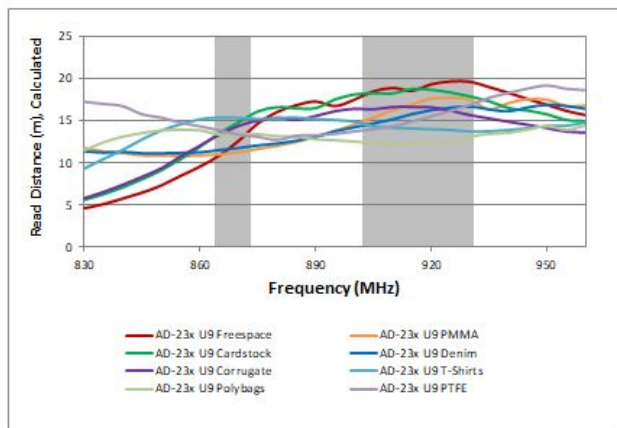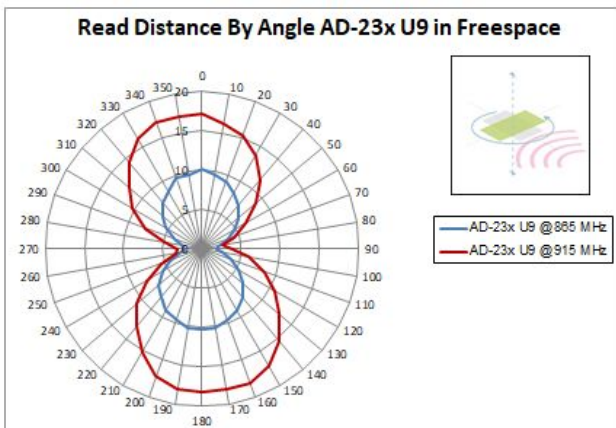
AD-23x U9 inlays feature 96-bit of EPC memory and a 96-bit unique factory locked TID number. A 48-bit unique serial number is factory-encoded into the TID. Delivery formats include dry, wet and pressure sensitive label.

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

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rfid.averydennison.com

Technical features

Chip	NXP UCODE 9		
EPC and User Memory	96-bit and n/a		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	RF602327 / IL-607121	RF602328 / IL-605267	RF101055 / IL-605489
Delivery Format	Dry inlay	Wet inlay	Label
Die-Cut Dimension	-	76 x 20 mm / 3.0 x 0.8 in	76 x 20 mm / 3.0 x 0.8 in
Inlay Substrate	40# Paper	40# Paper	40# Paper
Face Sheet	-	-	TT2C (FASSON®) Bright White
Total Thickness	11–14 mils / 279–356 microns	12–15 mils / 304–381 microns	16–18 mils / 412–463 microns
Standard Pitch	38.1 mm / 1.5 in	38.1 mm / 1.5 in	38.1 mm / 1.5 in
Web Width	82.5 mm / 3.25 in	82.5 mm / 3.25 in	82.5 mm / 3.25 in
Core Size	76.2 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	12,390 pcs/reel (13" max OD)	11,377 pcs/reel (13" max OD)	3,154 pcs/reel (8" max OD)
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, and Spec W6		

Technical features

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

Contact information

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