

AD-456u8 ETSI

Overview

Frequency Band

UHF 860 - 960 MHz

Chip

NXP UCODE 8

Antenna Dimensions

64 x 6 mm / 2.52 x 0.24 in

International Standard

ISO/IEC 18000-63 Type C

Industry Segments

Beauty and Personal Care
Food

Applications

On-Metal Asset Tracking
Brand Protection
Food Item-Level Retail

RoHs

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



Robust and versatile labels for hard to read surfaces

Available in both FCC and ETSI versions, AD-456u8 inlays from Avery Dennison are an excellent option for tagging items that cannot be RFID-enabled with traditional inlay designs.

Equipped with a UCODE 8 chip from NXP, the Gen2 UHF RFID labels are perfectly suited for applications related to manufacturing, computers and electronics, and miscellaneous consumer goods, including beverages such as bottled water, juices, and soft drinks in aluminum cans. AD-456u8 inlays are robust, high performing and incredibly versatile solutions for tagging hard to read surfaces.

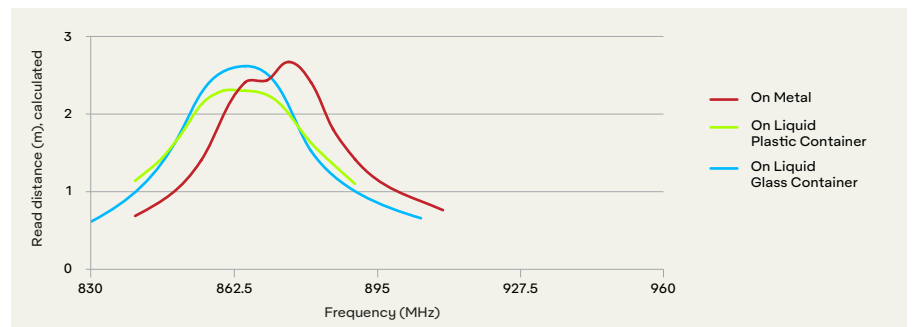
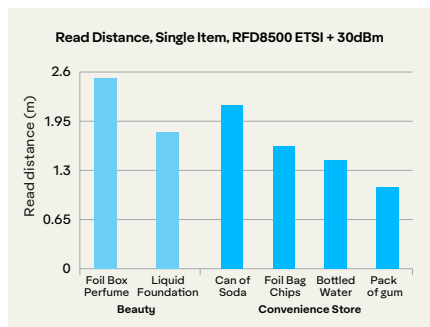
The product's UCODE 8 chip features 128-bit of EPC memory and 96-bit unique factory-locked TID number. A 48-bit unique serial number is factory-encoded into the TID. The sole delivery format is label / sticker.

Like all RFID products from Avery Dennison, AD-456u8 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	RF100574
Delivery Format	Label / sticker
Die-cut Dimension	64 x 6 mm / 2.52 x 0.24 in
Inlay Substrate	PET
Face Sheet	2 mil White PET
Total Thickness	37 - 39 mils / 932 - 983 microns
Standard Pitch	25.4 mm / 1 in
Web Width	68.6 mm / 2.7 in
Core Size	76 mm / 3 in
Quantity / Reel	1300 pcs / reel
Operating Temperature	-40 °C to 85 °C -40 °F to 185 °F
On-Metal	Metal

Read range



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

Contact information

rfid.averydennison.com/contact

North America: +1-866-903-7343 (toll free US)

International: +1-678-617-2359

RoHS

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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.



AD-456u8 ETSI Large Die Cut

Overview

Frequency Band

UHF 860 - 960 MHz

Chip

NXP UCODE 8

Antenna Dimensions

64 x 18 mm / 2.52 x 0.71 in

International Standard

ISO/IEC 18000-63 Type C

Industry Segments

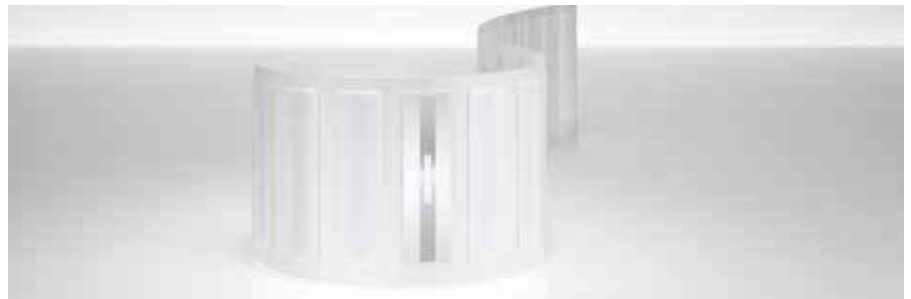
Beauty and Personal Care
Food

Applications

On-Metal Asset Tracking
Brand Protection
Food Item-Level Retail

RoHs

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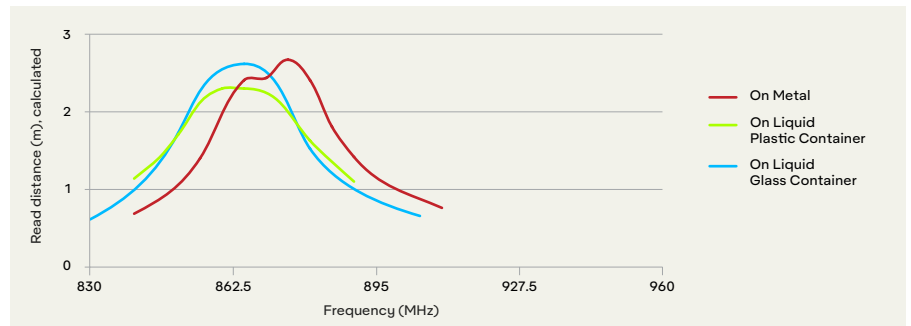
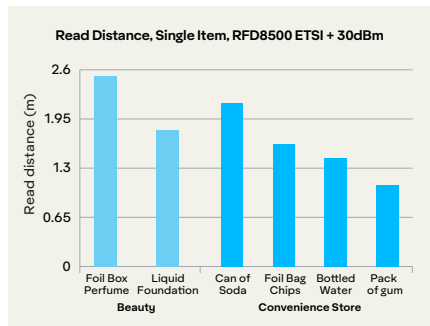
The product's UCODE 8 chip features 128-bit of EPC memory and 96-bit unique factory-locked TID number. A 48-bit unique serial number is factory-encoded into the TID. The sole delivery format is label / sticker.

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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	RF100577
Delivery Format	Label / sticker
Die-cut Dimension	64 x 18 mm / 2.52 x 0.71 in
Inlay Substrate	PET
Face Sheet	2 mil White PET
Total Thickness	37 - 39 mils / 932 - 983 microns
Standard Pitch	25.4 mm / 1.0 in
Web Width	68.6 mm / 2.7 in
Core Size	76 mm / 3 in
Quantity / Reel	1600 pcs / reel
Operating Temperature	-40 °C to 85 °C -40 °F to 185 °F
On-Metal	Metal

Read range



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AD-456u8 ETSI Tamper-Evident

Overview

Frequency Band

UHF 860 - 960 MHz

Chip

NXP UCODE 8

Antenna Dimensions

64 x 6 mm / 2.52 x 0.24 in

International Standard

ISO/IEC 18000-63 Type C

Industry Segments

Beauty and Personal Care
Food

Applications

On-Metal Asset Tracking
Brand Protection
Food Item-Level Retail

RoHs

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



Robust and versatile labels for hard to read surfaces

Available in both FCC and ETSI versions, AD-456u8 inlays from Avery Dennison are an excellent option for tagging items that cannot be RFID-enabled with traditional inlay designs.

Equipped with a UCODE 8 chip from NXP, the Gen2 UHF RFID labels are hence perfectly suited for applications related to manufacturing, computers and electronics, and miscellaneous consumer goods, including beverages such as bottled water, juices, and soft drinks in aluminum cans. AD-456u8 inlays are robust, high performing and incredibly versatile solutions for tagging hard to read surfaces.

The product's UCODE 8 chip features 128-bit of EPC memory and 96-bit unique factory-locked TID number. A 48-bit unique serial number is factory-encoded into the TID. The sole delivery format is Pressure Sensitive Label.

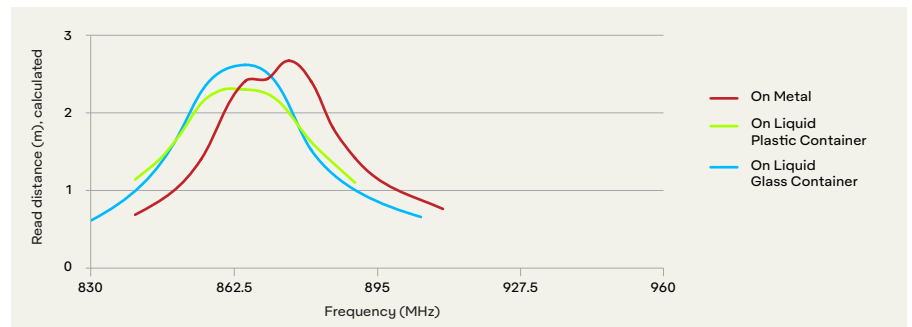
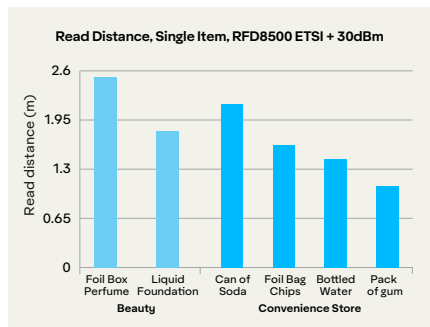
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A tamper-evident security label construction designed to provide visible evidence of tampering when label removal is attempted. A thin layer of paper (47# Tamper Resistant Litho) left behind on the surface of the tagged product will indicate the label had been removed. In addition, the removed tag will be absent of adhesive, preventing it from being re-applied or attached to another product. This product helps to protect against incidents of fraud and theft.

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	RF100593
Delivery Format	Label / sticker
Die-cut Dimension	64 x 6 mm / 2.52 x 0.24 in
Inlay Substrate	PET
Face Sheet	2 mil White PET
Inlay Liner Material	40# SCK
Security Material	47# Tamper Resistant Litho
Total Thickness	39.3 - 41.3 mils / 998 - 1049 microns
Standard Pitch	25.4 mm / 1 in
Web Width	68.6 mm / 2.7 in
Core Size	76 mm / 3 in
Quantity / Reel	1,549 pcs / reel
Operating Temperature	-40 °C to 85 °C -40 °F to 185 °F
On-Metal	Metal

Read range



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AD-456u8 FCC

Overview

Frequency Band

UHF 860 - 960 MHz

Chip

NXP UCODE 8

Antenna Dimensions

64 x 6 mm / 2.52 x 0.24 in

International Standard

ISO/IEC 18000-63 Type C

Industry Segments

Beauty and Personal Care
Food

Applications

On-Metal Asset Tracking
Brand Protection
Food Item-Level Retail

RoHs

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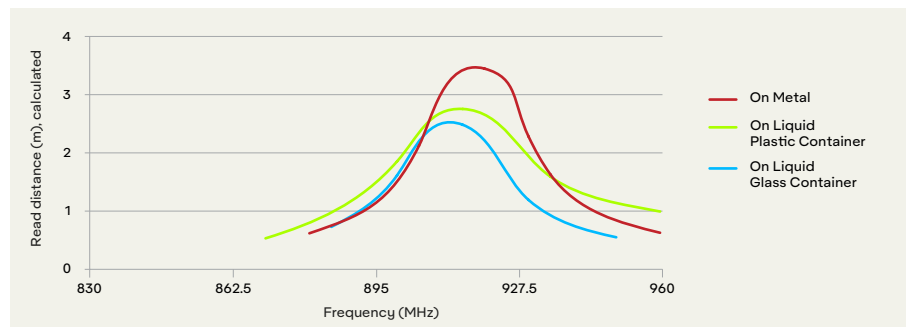
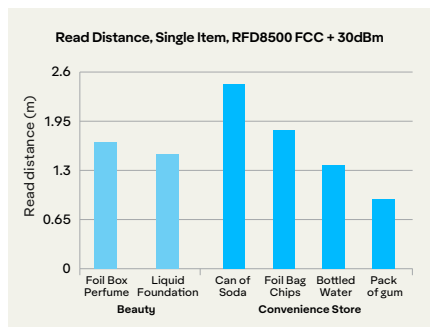
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Technical features

Chip	NXP UCODE 8
EPC and User Memory	128-bit and n/a
TID Memory	96-bit / 48-bit unique serial number
Product Code	RF100575
Delivery Format	Label / sticker
Die-cut Dimension	64 x 6 mm / 2.52 x 0.24 in
Inlay Substrate	PET
Face Sheet	2 mil White PET
Total Thickness	32 - 34 mils / 810 - 861 microns
Standard Pitch	25.4 mm / 1 in
Web Width	68.6 mm / 3 in
Core Size	76 mm / 3 in
Quantity / Reel	1300 pcs / reel
Operating Temperature	-40 °C to 85 °C -40 °F to 185 °F
On-Metal	Metal

Read range



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Overview

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UHF 860 - 960 MHz

Chip

NXP UCODE 8

Antenna Dimensions

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International Standard

ISO/IEC 18000-63 Type C

Industry Segments

Beauty and Personal Care
Food

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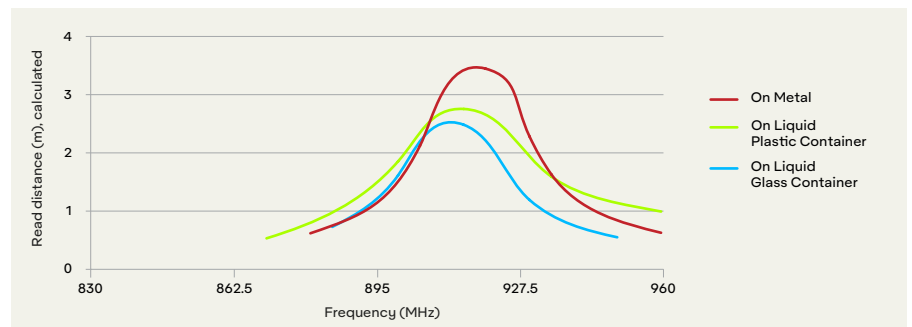
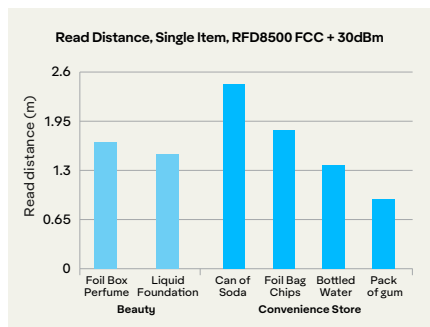
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Technical features

Chip	NXP UCODE 8
EPC and User Memory	128-bit and n/a
TID Memory	96-bit / 48-bit unique serial number
Product Code	RF100599
Delivery Format	Label / sticker
Die-cut Dimension	64 x 18 mm / 2.52 x 0.71 in
Inlay Substrate	PET
Face Sheet	2 mil White PET
Total Thickness	37 - 39 mils / 932 - 983 microns
Standard Pitch	25.4 mm / 1 in
Web Width	68.6 mm / 2.7 in
Core Size	76 mm / 3 in
Quantity / Reel	1300 pcs / reel
Operating Temperature	-40 °C to 85 °C -40 °F to 185 °F
On-Metal	Metal

Read range



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