

AD-457 U9 FCC

Overview

Frequency Band

UHF 902 - 928 MHz

Chip

NXP UCODE 9

IC Attachment Technology

Direct Chip Attach

Tag Dimensions

64 x 6 mm / 2.52 x 0.24 in
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

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-457u9 inlays from Avery Dennison are an excellent option for tagging items that cannot be RFID-enabled with traditional inlay designs.

Equipped with a UCODE 9 chip from NXP, the Gen2 UHF RFID labels are perfectly suited for tagging smaller items, particularly in the retail segment. The tag features a slim, 64 x 6 mm die cut footprint and can achieve read distances up to 2.5 meters when applied to non-RF friendly surfaces such as metal or liquid filled containers.

AD-457u9 is recommended for a variety of applications and use cases such as cosmetics, food & beverages, personal care and electronics. The tag is pliable, and conforms well to curved surfaces such as bottles and jars.

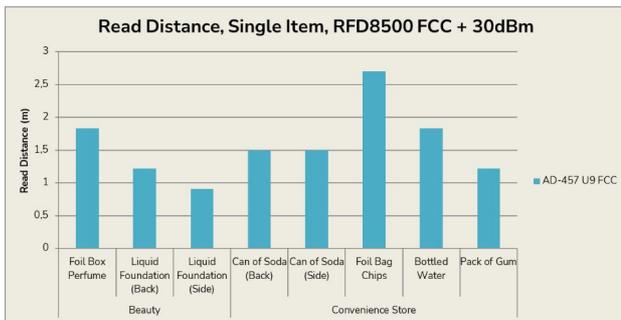
The product's UCODE 9 chip features 96-bit of EPC memory and 96-bit unique factory-locked TID number. A 48-bit unique serial number is factory-encoded into the TID. The sole delivery format is label.

Like all RFID products from Avery Dennison, AD-457u9 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.

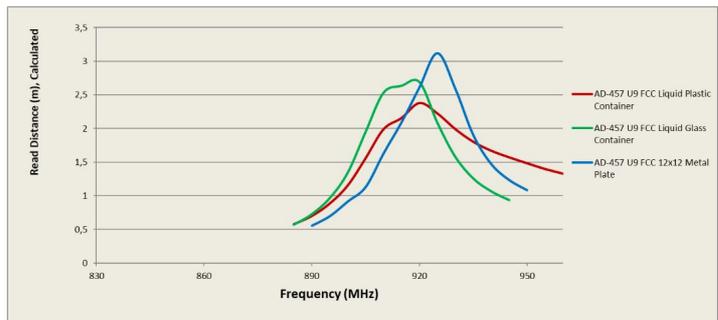
Technical features

Chip	NXP UCODE 9	
EPC and User Memory	96-bit and n/a	
TID Memory	96-bit / 48-bit unique serial number	
Product Code	IL-609920 / 3009545	IL-609917 / 3009541
Delivery Format	Label	Label
Die-Cut Dimension	64 x 6 mm / 2.52 x 0.24 in	64 x 18 mm / 2.52 x 0.71 in
Inlay Substrate	PET	PET
Face Sheet	2 mil White PET	2 mil White PET
Total Thickness	37 - 39 mils / 932 - 983 microns	37 - 39 mils / 932 - 983 microns
Standard Pitch	25.4 mm / 1 in	25.4 mm / 1 in
Web Width	68.6 mm / 2.7 in	68.6 mm / 2.7 in
Core Size	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	1300 pcs / reel	1300 pcs / reel
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F	
On-Metal	Metal	

Orientation sensitivity



Read range



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

Contact information

rfid.averydennison.com/contact
+1-678-617-2359

Connect with us on:



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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.

