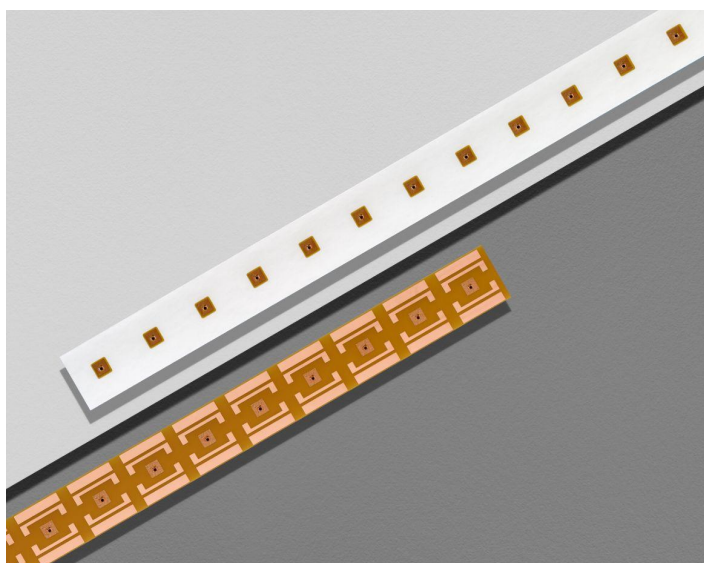


AD Nanoblock ICODE 3



Overview

Frequency Band	HF 13.56 MHz
Chip / Chip Attachment Technology	NXP ICODE 3 / Direct chip attach (DCA)
Antenna Dimensions	4.5 x 4.5 mm / 0.177 x 0.177 in
International Standard	ISO 15693
Industry Segments	Food & Beverage Apparel Pharmaceuticals & Healthcare Beauty General Industry
Applications	NFC Consumer Engagement Product Authentication Brand Protection
RoHS	EU Directive 2011/65/EU and Directive (EU) 2015/863
REACH	Regulation (EC) No. 1907/2006

Tiny, powerful square inlay for use where space is at a premium

AD Nanoblock ICODE 3 is one of the smallest HF/NFC inlays available (antenna size 4.5 x 4.5 mm), designed to deliver exceptional performance in for example general Industry, apparel, pharmaceuticals and healthcare, food and beverage and beauty applications, or any other space-constrained environment. It is ideal for consumer engagement, product authentication and brand protection use-cases.

This ultra-compact inlay features a copper-based design for improved performance and integrates the NXP ICODE 3 chip, offering 2432 bits of user memory. Additionally, it includes a customizable digital originality signature to authenticate tags and protect against cloning, while providing enhanced privacy features to secure user information.

Operating at 13.56MHz, the tag supports long-range reading by both HF-RFID readers and NFC-enabled smartphones, facilitating smooth operations across manufacturing, supply, and usage cycles. Fully compliant with the ISO/IEC 15693 and NFC Forum Type 5 standards, AD Nanoblock ICODE 3 is a reliable and versatile solution for a variety of applications. The tag is currently available as a dry and RIF wet inlay , but can be offered in other delivery formats.

Like all RFID products from Avery Dennison, AD Nanoblock ICODE 3 inlays are compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management, which ensure a reliable and state-of-the-art product that meets a variety of application needs.

Technical features

Chip / Chip Attachment Technology	NXP ICODE 3 / Direct chip attach (DCA)	
EPC and User Memory	2432-bit	
TID Memory	-	
Product Code	IL-613409	IL-613407
Delivery Format	Dry inlay	RIF Wet inlay
Die-Cut Dimensions	N/A	5.5 x 5.5 mm / 0.217 x 0.217 in
Die-Cut Corner Radius	-	1 mm/ 0.039 in
Inlay Substrate	PI Brown 50	PI Brown 50
Face Sheet	-	Clear PET
Adhesive	-	RA-5
Total Thickness (over chip and release liner)	8.26 mils / 210 microns	10.23mils / 260 microns
Standard Pitch	20 mm / 0.78 in	20 mm / 0.78 in
Web Width	20 mm / 0.78 in	20 mm / 0.78 in
Core Size	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	5,000 pcs/reel	5,000 pcs/reel
Size of Roll	Max OD 15"	Max OD 12"
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F	
On-Metal	Non metal	
ARC Certificates	-	

*Other product codes available upon request.

Find more label solutions at
rfid.averydennison.com



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