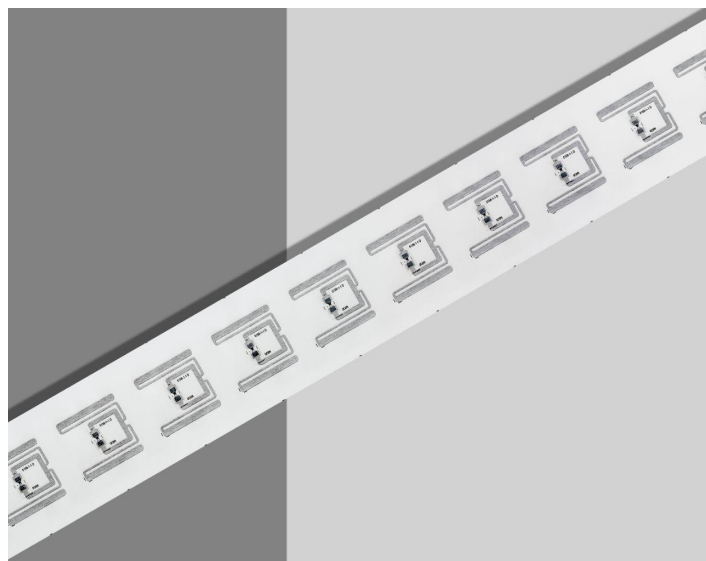# AD Crunch™ M830

High performance inlay for item level tagging

AD Crunch M830 inlays from Avery Dennison have been developed for item-level tagging in fresh food applications. These inlays deliver exceptional performance and inventory accuracy. AD Crunch M830's compact antenna footprint was designed to fit into the market's 1.2 x 1.2in common label size.

Featuring the impinj M830 IC, this inlay is equipped with 128-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. The improved readability of the new IC offers reliable reading of small tags at high volume and speed which supports the global IoT deployments. AD Crunch M830 is offered in dry, wet and pressure sensitive label formats.

Like all RFID products from Avery Dennison, AD Crunch M830 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, especially in the retail environment. The RFID Lab at Auburn University has awarded Avery Dennison its first comprehensive and significant ARC accreditation for quality.

Overview

Frequency Band	UHF 860 - 960 MHz
Chip / Chip Attachment Technology	Impinj M830 / Strap Attach
Antenna Dimensions	28 x 28 mm / 1.1 x 1.1 in
International Standard	ISO/IEC 18000-63 Type C
Industry Segments	Food
Applications	Bakery and Deli Label Food Supply Chain Management Asset Tracking
RoHS	EU Directive 2011/65/EU and Directive (EU) 2015/863
REACH	Regulation (EC) No. 1907/2006
FDA Compliance	21 CFR 175.105*

*The product codes represented in this document may be used on the exterior of food packaging where the adhesive is separated from the food by a functional barrier in accordance with 21 C.F.R. § 175.105. It is the customer's responsibility to determine whether an appropriate functional barrier is present based on the customer's intended manner of use of the products.

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Technical features

Chip / Chip Attachment Technology	Impinj M830 / Strap Attach		
EPC and User Memory	128-bit EPC and 0-bit User Memory		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	IL-614812	IL-614813	IL-614814
Delivery Format	Dry Inlay +	Wet Inlay	Label
Die-Cut Dimensions	-	30.5 x 30.5 mm / 1.2 x 1.2 in	30.5 x 30.5 mm / 1.2 x 1.2 in
Die-Cut Corner Radius	-	3 mm / 0.118 in	3 mm / 0.118 in
Inlay Substrate	PET Clear	PET Clear	PET Clear
Face Sheet	-		DT Facestock
Adhesive	-	All Temperature Permanent	All Temperature Permanent
Total Thickness (over chip and release liner)	8.91 - 10.89 mils / 226.31 - 276.61 microns	9.99 - 12.21 mils / 253.75 - 310.13 microns	12.06 - 14.74 mils / 306.32 - 374.40 microns
Standard Pitch	38.1 mm / 1.5 in	38.1 mm / 1.5 in	38.1 mm / 1.5 in
Web Width	35 mm / 1.38 in	35 mm / 1.38 in	35 mm / 1.38 in
Core Size	76 mm / 3 in	34.93 mm / 1.38 in	76 mm / 3 in
Quantity / Reel	TBD pcs/reel	TBD pcs/reel	TBD pcs/reel
Size of Roll	MAX OD: 15"	MAX OD: 12"	MAX OD: 8"
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F		
On-Metal	Non metal		

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