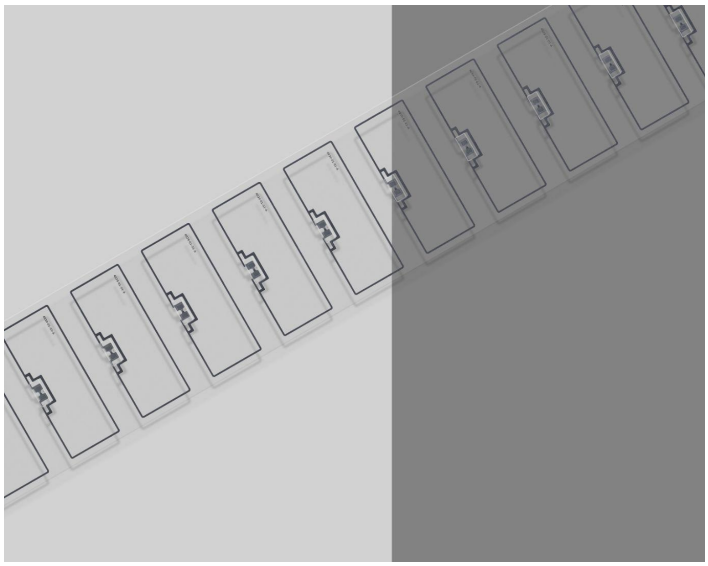
AD Charge M830



Boost Inventory Accuracy on Protein with RFID Inlays

Improve item-level tracking and inventory accuracy with Avery Dennison's AD Charge M830 inlays. These inlays enhance supply chain visibility across various food applications. Designed for high-density environments, the 68 x 26.4 mm antenna footprint allows conversion to various label sizes.

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 Charge M830 is offered in dry, wet and pressure sensitive label formats.

Like all RFID products from Avery Dennison, AD Charge 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	Impinj M830 endpoint IC with Gen2X
Chip Attachment Technology	Strap Attach
Antenna Dimensions	68 x 26.4 mm / 2.68 x 1.04 in
International Standard	ISO/IEC 18000-63 Type C
Industry Segments	Food
Applications	Protein and Deli Label Food Supply Chain Management Inventory Tracking
RoHS	EU Directive 2011/65/EU and Directive (EU) 2015/863
REACH	Regulation (EC) No. 1907/2006
Patent	Patent Pending
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.

AVERY DENNISON

Technical features

Chip / Chip Attachment Technology	Impinj M830 endpoint IC with Gen2X / 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-613862	IL-613865	IL-613860
Delivery Format	Dry Inlay +	Wet Inlay	Label
Die-Cut Dimensions	-	71 x 29.4 mm / 2.8 x 1.16 in	71 x 29.4 mm / 2.8 x 1.16 in
Die-Cut Corner Radius	-	1.59 mm / 0.063 in	1.59 mm / 0.063 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)	9.09 - 11.11 mils / 230.89 - 282.19microns	9.72 - 11.88 mils / 246.89 - 301.75 microns	11.97 - 14.63 mils / 304.04 - 371.60 microns
Standard Pitch	38.1 mm / 1.5 in	38.1 mm / 1.5 in	38.1 mm / 1.5 in
Web Width	74 mm / 2.91 in	74 mm / 2.91 in	74 mm / 2.91 in
Core Size	76 mm / 3 in	76 mm / 3 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		

*Part # sold as is

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rfid.averydennison.com

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