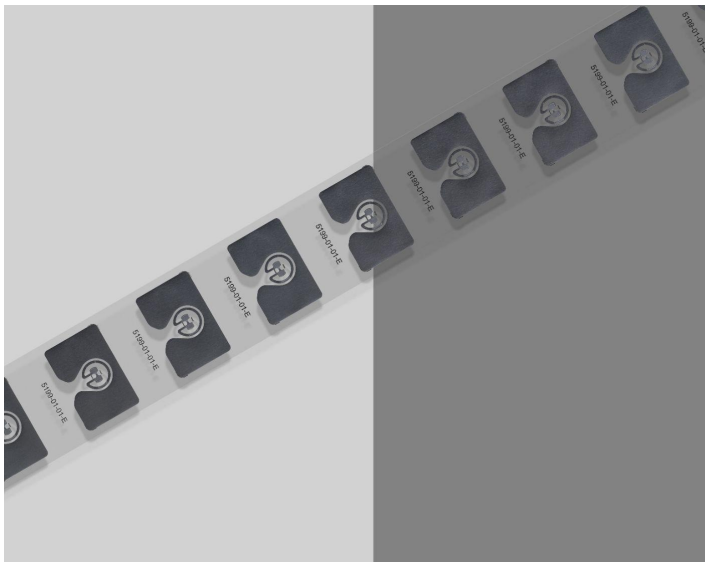
AD Power Mini M830 MR

RFID inlay delivering exceptional item-level tagging and inventory accuracy on protein



Begin improving item level tracking and store inventory counts with AD Power Mini M830 MR inlays from Avery Dennison. AD Power Mini M830 MR was designed to be microwave resistant and maintain excellent performance in high density, protein environments. This inlay carries a 44 x 29 mm antenna footprint, giving it the capability to be converted into the label size that fits your needs.

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 Power Mini M830 MR is offered in a pressure sensitive label format.

Like all RFID products from Avery Dennison, AD Power Mini M830 MR 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	44 x 29 mm / 1.73 x 1.14 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-614898
Delivery Format	Label
Die-Cut Dimensions	47 x 32 mm / 1.85 x 1.26 in
Die-Cut Corner Radius	3 mm / 0.118 in
Inlay Substrate	PET Clear
Face Sheet	DT Facestock
Adhesive	All Temperature Permanent
Total Thickness (over chip and release liner)	12.06 - 14.74 mils / 306.32 - 374.40 microns
Standard Pitch	38.1 mm / 1.5 in
Web Width	50.8 mm / 2 in
Core Size	35 mm / 1.38 in
Quantity / Reel	TBD pcs/reel
Size of Roll	MAX OD: 8”
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F
On-Metal	Non metal

*Part # sold as is

Recommended microwave use parameters

- Label placement on the Top of packaging
- A minimum of 8 ounces of frozen product
- Products to include ground beef, whole muscle steak, whole muscle pork, whole muscle chicken, fish, and sausage
- Packaging material to include foam tray with plastic wrap, vacuum skin tray, vacuum skin roll stock, PET tray, Polypropylene tray and roll stock
- Power setting up to and including 100% power for up to and including 1 minutes on the wattage set forth in the table listed on this page
- A passed test is one that does not arc/spark and does not ignite during microwaving

Avery Dennison will not be liable for i) any misuse of the product ii) any changes or modifications to the product iii) any unforeseen use of the product i. Avery Dennison’s liability shall be limited to the replacement of the product and Avery Dennison shall have no liability for any damages, including any special, indirect or consequential damages.

Microwave Wattage	Maximum Cook Time
950W @ 100% Power	2 minutes
1200W @ 100% Power	1 minute

Microwave Wattage	Maximum Cook Time
950W @ 30% Power	7 minutes/lb.
1200@ @ 30% Power	7 minutes/lb.

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

Find more label solutions at
rfid.averydennison.com

#MakingPossible

© 2026 Avery Dennison Corporation. All rights reserved. The "Making Possible" tagline, Avery Dennison and all other Avery Dennison brands, product names and codes are trademarks of Avery Dennison Corporation. All other brands or product names are trademarks of their respective owners. Fortune 500® is a trademark of Time, Inc. Branding and other information on any samples depicted are fictitious. Any resemblance to actual names is purely coincidental.