

AD Frog 3D[®] M830

Overview

Frequency Band

UHF 860 - 960 MHz

Chip Attachment Technology

Direct Chip Attach

Chip

Impinj M830

Antenna Dimensions

68 x 68 mm / 2.68 x 2.68 in

International Standard

ISO 18000-63, EPC Class 1 Gen 2

Industry Segments

Logistics

Applications

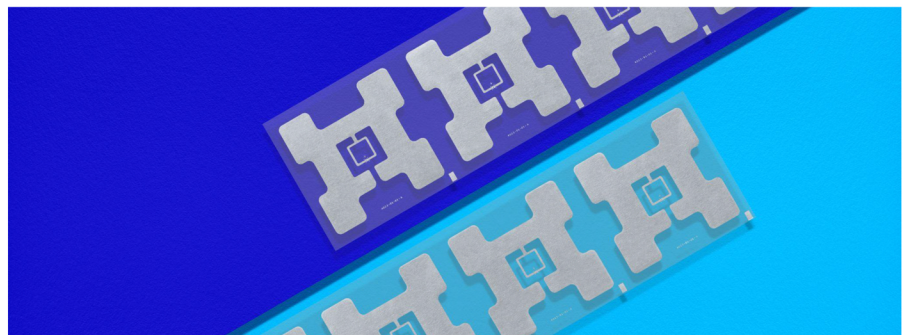
Asset Tracking
Package tracking

RoHS

EU Directive 2011/65/EC and
Directive (EU) 2015/863

REACH

Regulation (EC) No. 1907/2006



High-performance product for supply chain and logistics applications

Our AD Frog 3D[®] inlays and tags are designed for pallet and case level applications, offering high performance in supply chain management and logistics. Pallet tracking enables real-time monitoring for optimizing pallet utilization and reducing loss, while case-level tracking offers improved visibility for inventory management and order fulfillment.

AD Frog 3D[®] products have a small, True3D form factor with complete orientation insensitivity, providing consistent performance even on challenging materials. High-performance AD Frog 3D[®] inlays deliver excellent read range and are compatible with the Impinj M830.

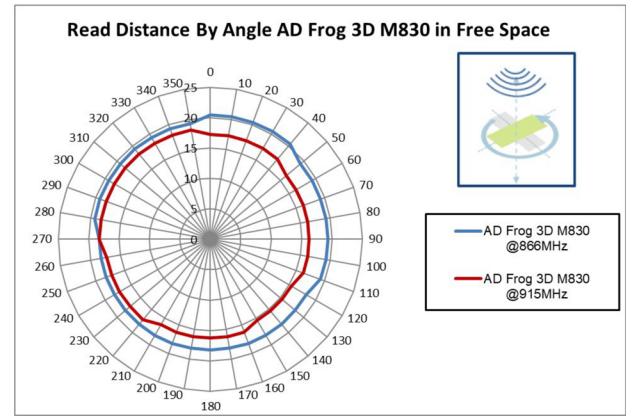
AD Frog 3D[®] tags and inlays are produced using leading-edge inlay assembly technologies. Monitoring every step in the production process, from the antenna to the final assembly of the inlay, guarantees optimal quality products.

Our inlays and tags 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, enhancing RFID usage for difficult-to-tag materials.

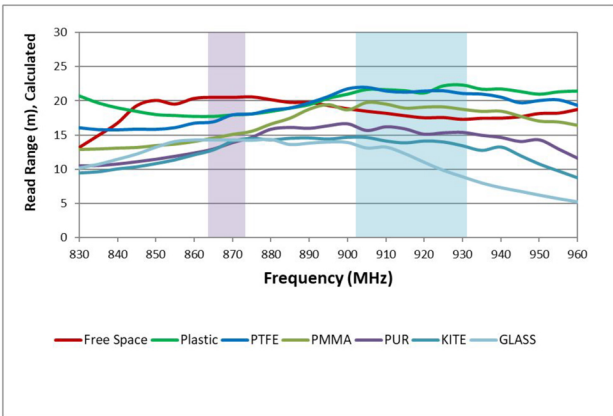
Technical features

Chip	Impinj M830		
Chip attachment technology	Direct chip attach (DCA)		
EPC and User Memory	128-bit EPC		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	IL-612051	IL-612052	IL-612049
Delivery Format	Dry Inlay	Wet Inlay	Label
Die-Cut Dimension	-	76.2 x 76.2 mm / 3 x 3 in	76.2 x 76.2 mm / 3 x 3 in
Inlay Substrate	PET	PET	PET
Face Sheet	-	-	Opaque Matt Paper 79
Total Thickness	183 µm	264 µm	353 µm
Standard Pitch	80 mm / 3.15 in	80 mm / 3.15 in	80 mm / 3.15 in
Web Width	80 mm / 3.15 in	80 mm / 3.15 in	80 mm / 3.15 in
Core Size	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	5,000 pcs/reel 5,000 pcs/box	5,000 pcs/reel 5,000 pcs/box	5,000 pcs/reel 5,000 pcs/box
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F		

Orientation sensitivity



Read range



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



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Warranty: Please refer to Avery Dennison standard terms and conditions: [rfid.averydennison.com/termsandconditions](https://www.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.

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