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
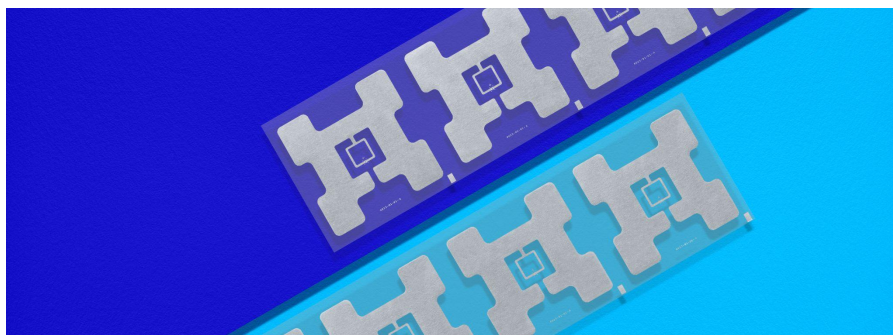Logistics

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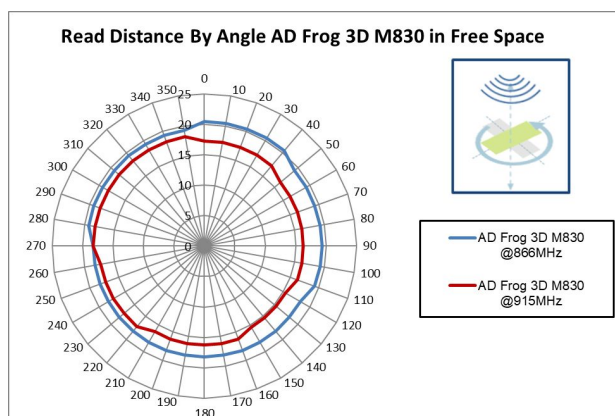
AD Frog 3D® tags and inlays are produced using leading-edge inlay assembly technologies. Monitoring every step in the production process, from the antenna to the final assembly of the inlay, guarantees optimal quality products.

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.
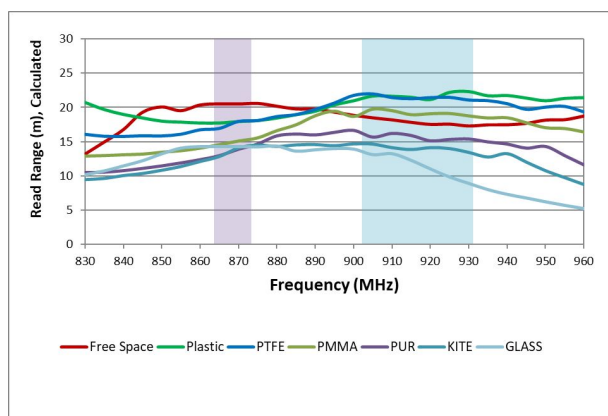
AVERY DENNISON

rfid.averydennison.com

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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