

AD Web M830



Item-level tags condensed to the max

The AD Web M830 inlays and tags are designed for the unique identification of items like apparel and electronics, making them ideal for item-level retail, logistics, and supply-chain applications.

These new M830-based inlays from Avery Dennison are compact and perfectly suited for apparel hang tags, offering high read reliability and excellent performance, even when stacked closely. They also provide best-in-class orientation sensitivity with low total applied costs.

AD Web M830 is listed on the approved inlay list by the ARC RFID Research Center of the University of Auburn, complying with categories Q, W5, W6, O, L, Y2, R, and I.

The inlays utilize the Impinj M830 IC, which features 128-bit EPC memory. It is compliant with the global GS1 UHF Gen2v2 standard (ISO/IEC 18000-63).

AD Web M830 inlays are available immediately in dry, wet, and label formats. Avery Dennison's commitment to quality and environmental management (ISO 9001:2015 and ISO 14001:2015 compliant) ensures a reliable, state-of-the-art product that meets diverse application needs, especially in the demanding retail environment.

Overview

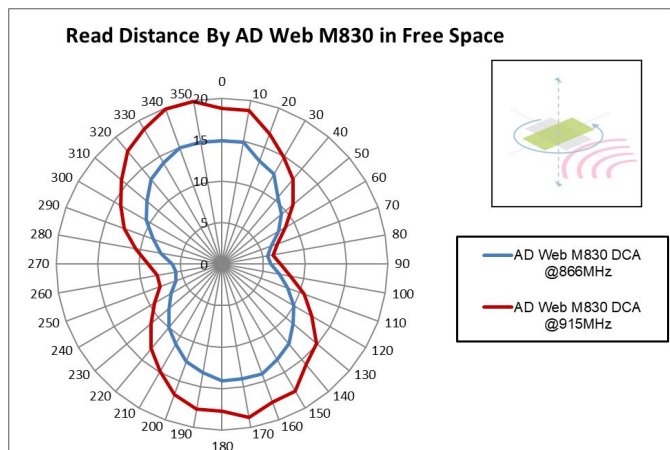
Frequency Band	UHF 860 - 960 MHz
Chip / Chip Attachment Technology	M830 / Direct Chip Attach
Antenna Dimensions	50 x 30 mm / 1.968 x 1.181 in
International Standard	ISO 18000-63, EPC Class 1 Gen 2 (Gen2X enhanced)
Industry Segments	Apparel & General Retail
Applications	Apparel, Retail & Industry
RoHS	EU Directive 2011/65/EU and Directive (EU) 2015/863
REACH	Regulation (EC) No. 1907/2006

Technical features- Direct Chip Attach (DCA)

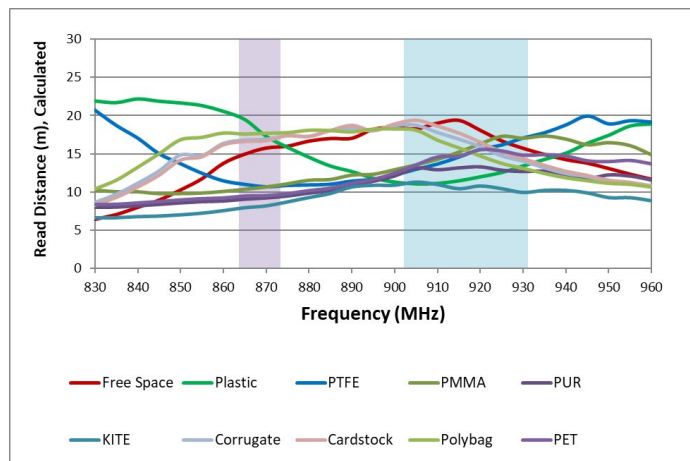
Chip / Chip Attachment Technology	Impinj M830 / Direct Chip Attach		
EPC and User Memory	128-bit		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	IL-614719	IL-614720	IL-614721
Delivery Format	Dry inlay	Wet inlay	Label / sticker
Die-Cut Dimensions	N/A	54 x 33 mm / 2.13 x 1.3 in	54 x 33 mm / 2.13 x 1.3 in
Inlay Substrate	PET Clear	PET Clear	PET Clear
Face Sheet	-	-	Mid Gloss Paper
Adhesive	-	ADH-100005	ADH-100005
Total Thickness (over chip and release liner)	7.08 mils / 180 microns	9.05 mils / 230 microns	111.81 mils / 300 microns
Standard Pitch	36 mm / 1.417 in		
Web Width	60 mm / 2.36 in	60 mm / 2.36 in	60 mm / 2.36 in
Core Size	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	17,000 pcs/reel	15,000 pcs/reel	3,000 pcs/reel
Size of Roll	Max OD 15.5"	Max OD 13"	Max OD 8 "
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F		
On-Metal	Non metal		
ARC Certificates	ARC Specification Guide		

*Other product codes available upon request.

Orientation sensitivity



Read range



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

Functional Adhesive Group and Description

ADH-100005

Water borne acrylic PSA. Good adhesion to all generally used substrates such as paper, board and plastics: RA-5, S4905L(AWS1101), S4905L(SML22403)

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