

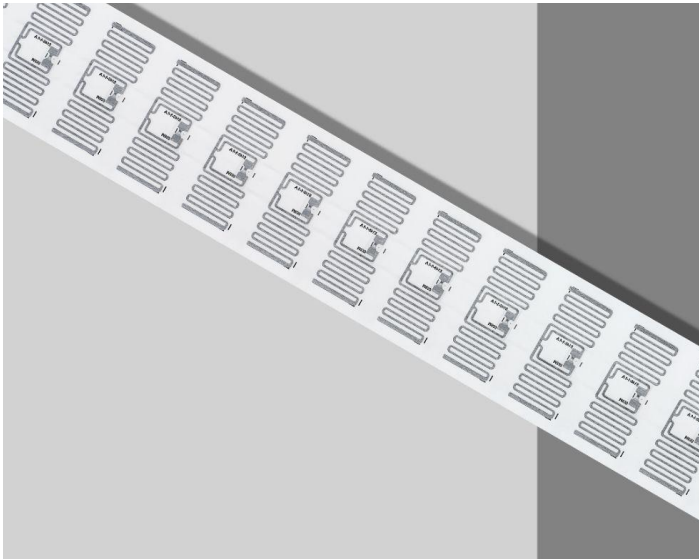
AD Bolt M830

Unleashing exceptional performance across diverse applications

AD Bolt M830 inlays from Avery Dennison Smartrac offer superior performance across various RFID tagging applications. These include supply chain, inventory and logistics, apparel, and general retail. The apparel design is particularly effective for retailers, providing consistent high read rates with a small label footprint, while performing significantly well on fabric, denim, plastic and cardstock materials.

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 Bolt M830 carries a 42.5 x 17mm (1.67 x 0.67in) antenna footprint and is offered in dry, wet and pressure sensitive label format.

Like all RFID products from Avery Dennison, AD Bolt 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

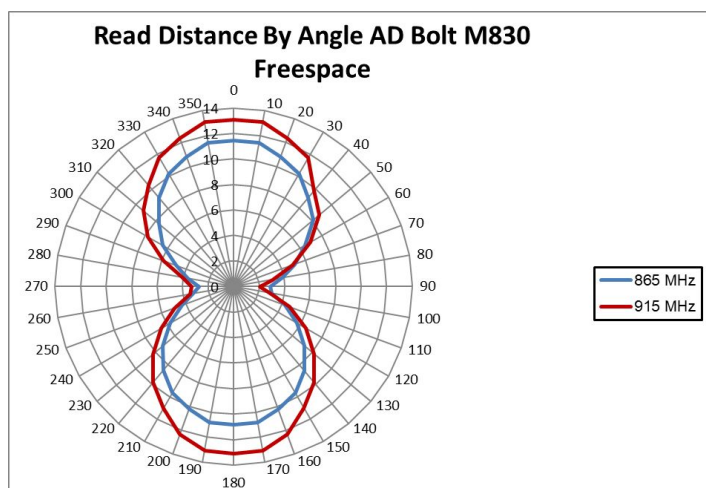
Frequency Band	UHF 860 - 960 MHz
Chip / Chip Attachment Technology	Impinj M830 / Strap Attach
Antenna Dimensions	42.5 x 17 mm / 1.67 x 0.67 in
International Standard	ISO/IEC 18000-63 Type C
Industry Segments	Apparel General Retail
Applications	Brand Protection Supply Chain Management Inventory and Logistics
RoHS	EU Directive 2011/65/EU and Directive (EU) 2015/863
REACH	Regulation (EC) No. 1907/2006

Technical features

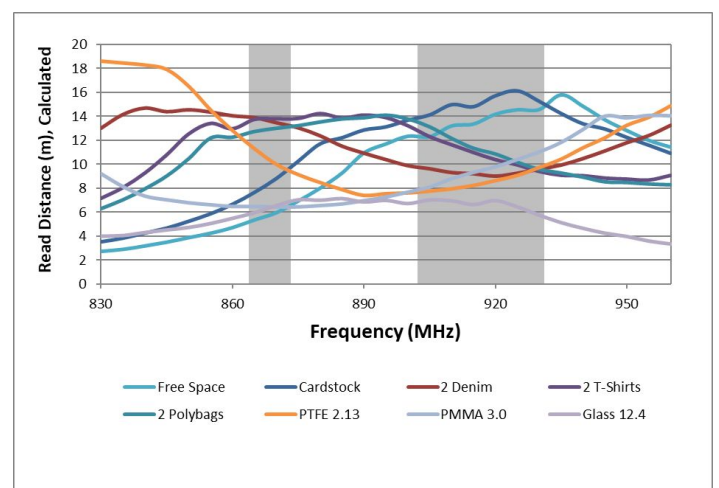
Chip / Chip Attachment Technology	Impinj M830 / Strap Attach			
EPC and User Memory	128-bit EPC and 0-bit User Memory			
TID Memory	96-bit / 48-bit unique serial number			
Product Code	IL-612685	IL-612687	IL-612689	IL-615632
Delivery Format	RIF Dry Inlay	Wet Inlay	Label	Label
Die-Cut Dimensions	-	44.5 x 19.05 mm / 1.75 x 0.75 in	44.5 x 19.05 mm / 1.75 x 0.75 in	44.5 x 19.05 mm / 1.75 x 0.75 in
Die-Cut Corner Radius	-	1.59 mm / 0.063 in	1.59 mm / 0.063 in	1.59 mm / 0.063 in
Inlay Substrate	40# Paper	40# Paper	40# Paper	40# Paper
Top Layer Group	TMBL-100061	-	TMBL-100117	TMBL-100091
Top Layer Description	PET Clear	-	Paper 3PT Matte FSC	Paper 70um Midgloss FSC
Adhesive Group	-	ADH-100049	ADH-100005	ADH-100005
Functional Adhesive Description	-	General purpose permanent, acrylic based adhesive. The adhesive is an all temperature adhesive developed to provide high initial tack and excellent adhesion to wide variety of substrates	General purpose permanent, acrylic based adhesive. Good adhesion to all generally used substrates such as paper, board and plastics	General purpose permanent, acrylic based adhesive. Good adhesion to all generally used substrates such as paper, board and plastics
Total Thickness (over chip and release liner)	11.5 - 13.5 mils / 292 - 343 microns	12.7 - 14.7 mils / 322 - 373 microns	16.2 - 18.2 mils / 411 - 462 microns	13.5 - 16.5 mils / 342 - 418 microns
Standard Pitch	25.4 mm / 1.0 in	25.4 mm / 1.0 in	25.4 mm / 1.0 in	25.4 mm / 1.0 in
Web Width	50.8 mm / 2.0 in	50.8 mm / 2.0 in	50.8 mm / 2.0 in	50.8 mm / 2.0 in
Core Size	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	TBD pcs/reel	TBD pcs/reel	TBD pcs/reel	TBD pcs/reel
Size of Roll	MAX OD: 15.5"	MAX OD: 13"	MAX OD: 8"	MAX OD: 9"
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F			
On-Metal	Non metal			
Certificate	ARC Specification Guide			

*Other product codes available upon request.

Orientation sensitivity



Read range



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



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rfid.averydennison.com



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