

AD Sonic M830

Overview

Frequency Band

UHF 860 - 960 MHz

Chip

Impinj M830

IC Attachment Technology

Direct Chip Attach

Antenna Dimensions

44 x 20 mm / 1.732 x 0.787 in

International Standard

ISO/IEC 18000-63 Type C

Primary Industry Segments

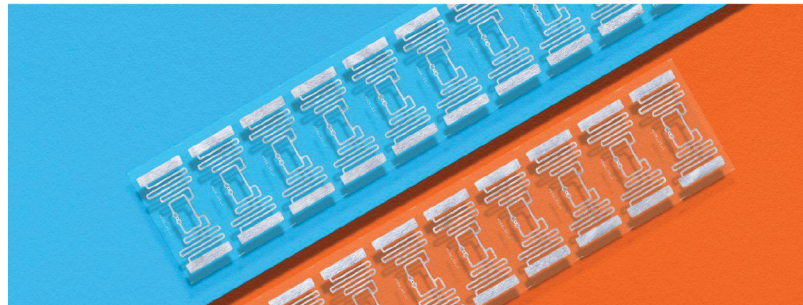
Apparel
General Retail

Secondary Industry Segment

Logistics

RoHS

EU Directive 2011/65/EU and
2015/863 Compliant



Maximum Performance in a compact size

AD Sonic M830 inlays and tags from Avery Dennison are designed to provide outstanding global performance in apparel and general retail environments. Ideal for supply chain, inventory and logistics, these inlays feature a 44 x 20 mm (1.732x.787in) antenna size for ease in converting into end-use applications. Delivery formats include dry, wet, and pressure sensitive labels.

Equipped with the impinj M830 IC, AD Sonic inlays feature a 128-bit of EPC memory and 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.

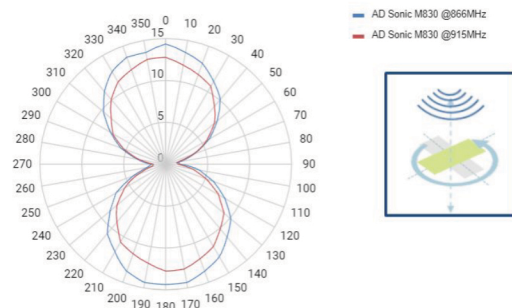
Like all RFID products from Avery Dennison, AD Sonic M830 inlays are compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management, which ensure a reliable and state-of-the-art product that meets a variety of application needs, especially in the retail environment. The RFID Lab at Auburn University has awarded Avery Dennison its first comprehensive and significant ARC accreditation for quality.

Technical features - Direct Chip Attach (DCA)

Chip / IC Attachment Technology	Impinj M830 / Direct Chip Attach		
EPC and User Memory	128-bit and n/a		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	IL-610465	IL-610473	IL-610470
Delivery Format	Dry inlay	Wet inlay	Label
Die-Cut Dimension	-	46 x 22 mm / 1.81 x 0.87 in	46 x 22 mm / 1.81 x 0.867 in
Inlay Substrate	PET	PET	PET
Face Sheet	-	-	Mid-gloss paper
Total Thickness	7.05 mils / 179 microns	7.68 mils / 195 microns	10.23 mils / 260 microns
Standard Pitch	24 mm / 0.945 in	24 mm / 0.945 in	24 mm / 0.945 in
Web Width	52 mm / 2.047 in	52 mm / 2.047 in	52 mm / 2.047 in
Core Size	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	18,000 pcs/reel 90,000 pcs/box	15,000 pcs/reel 30,000 pcs/box	3,200 pcs/reel 6,400 pcs/box
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F		
On-Metal	Non metal		
Certificate	ARC Specification Guide		

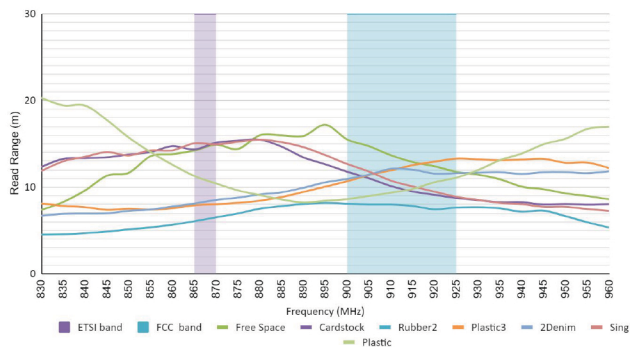
Orientation Sensitivity

Read Distance on Free Space



Read Range

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

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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