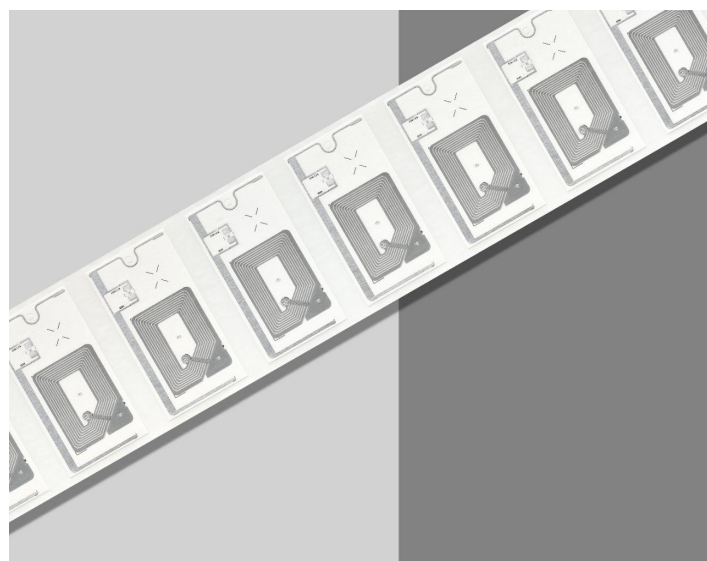# AD Balance M830 Combo

Auburn H2 Compliant Inlay Combining RFID and EAS

AD Balance M830 Combo inlays from Avery Dennison are a unique dual-technology design that incorporates a UHF RFID inlay and an Electronic Article Surveillance (EAS) tag in a single die-cut label. The product hence combines item-level tracking capabilities for a wide range of retail apparel products with a secondary loss prevention functionality. AD Balance M830 Combo is designed to meet Auburn University's H2 overhead read specification.

Featuring the Impinj M830 IC, AD Balance M830 Combo is equipped with 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.

Like all RFID products from Avery Dennison, AD Balance M830 Combo 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	73 x 37.75 mm / 2.87 x 1.49 in
International Standard	ISO/IEC 18000-63 Type C
Industry Segments	Apparel General Retail
Applications	Theft Prevention Supply Chain Management Inventory and Logistics
RoHS	EU Directive 2011/65/EU and Directive (EU) 2015/863
REACH	Regulation (EC) No. 1907/2006

AVERY DENNISON
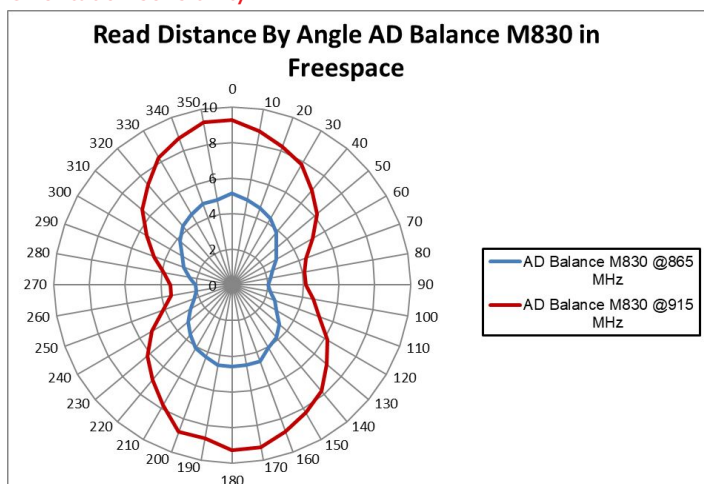
Technical features

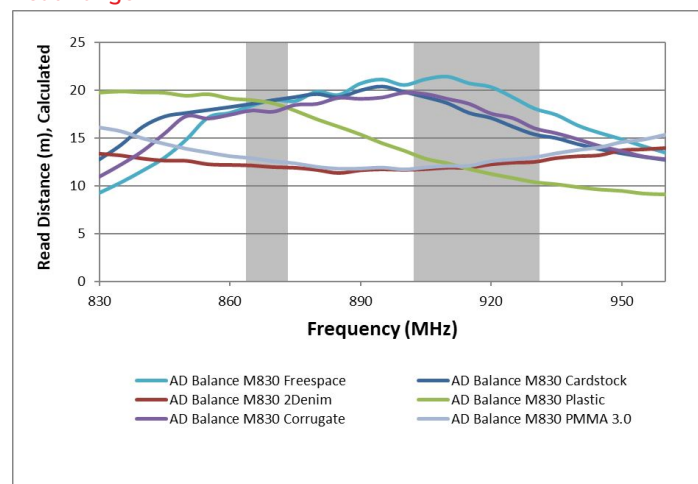|	
Chip / Chip Attachment Technology	Impinj M830 / Strap Attach
EPC and User Memory	128-bit EPC and 0-bit User Memory
TID Memory	96-bit / 48-bit unique serial number
Product Code	IL-611101
Delivery Format	Label
Die-Cut Dimensions	76 x 40 mm / 2.99 x 1.575 in
Die-Cut Corner Radius	.10 mm / 0.004 in
Inlay Substrate	5pt Paper
Face Sheet	N/A
Adhesive	General Purpose Permanent
Total Thickness (over chip and release liner)	14.9 - 18.2 mils / 378 - 462 microns
Standard Pitch	50.8 mm / 2 in
Web Width	81.36 mm / 3.20 in
Core Size	76 mm / 3 in
Quantity / Reel	TBD pcs/reel
Size of Roll	MAX OD: TBD
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.

Technical features - EAS Component

EAS Label	NeDap NT4030/TRANSP/8KR
Size	40 x 30 mm / 1.57 x 1.18 in
Resonance Frequency	8.2 MHz ±5%, Compatible with all 8.2 MHz EAS systems

Orientation sensitivity

Read Distance By Angle AD Balance M830 in Freespace

- AD Balance M830 @865 MHz
- AD Balance M830 @915 MHz

Read range

- AD Balance M830 Freespace
- AD Balance M830 2Denim
- AD Balance M830 Corrugate
- AD Balance M830 Cardstock
- AD Balance M830 Plastic
- AD Balance M830 PMMA 3.0

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

Find more label solutions at
rfid.averydennison.com

#MakingPossible

REACH COMPLIANCE

RoHS

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