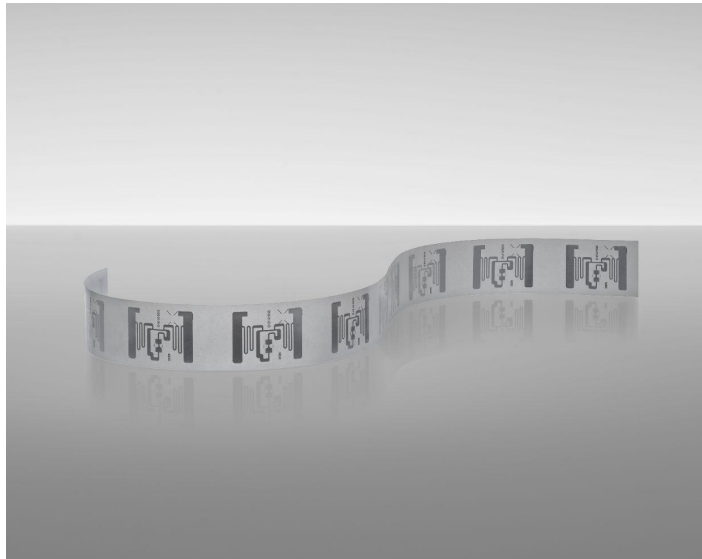


AD Quantum M830 NEL



High-performance offerings in a Narrow Edge Leading (NEL) orientation for retail

The AD Quantum M830 NEL was developed to broaden our high-performance offerings in a Narrow Edge Leading (NEL) orientation, specifically targeting a 29 x 41.4mm footprint. Providing increased application flexibility for retail environments where specific tag orientations are required for high-speed conversion and consistent performance.

Equipped with the next-generation Impinj M830 IC, the inlay delivers market-leading read sensitivity and faster inventory capture. This design has been rigorously validated by the Auburn University RFID Lab, successfully passing an extensive range of performance benchmarks, including ARC Specs Q, W5, W6, L, Y2, R, and I.

By combining the advanced capabilities of the M800 series with a versatile form factor, the AD Quantum M830 NEL ensures reliable item-level visibility and full compliance with the most demanding global retail mandates.

Like all RFID products from Avery Dennison, AD Quantum M830 NEL inlays are manufactured according to the industry's highest quality standards, as confirmed by the RFID Lab at Auburn University: The inspection body awarded Avery Dennison its first comprehensive and significant ARC accreditation for quality.

Overview

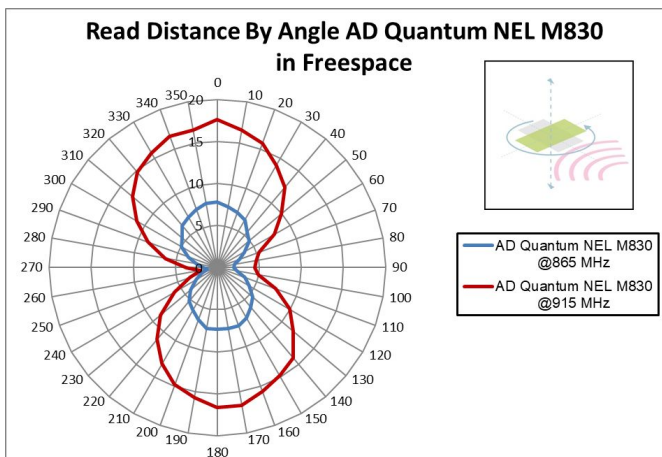
Frequency Band	UHF 860 - 960 MHz
Chip / Chip Attachment Technology	Impinj M830 / Strap Attach
Antenna Dimensions	29 x 41.4 mm / 1.14 x 1.63 in
International Standard	ISO 18000-63, EPC Class 1 Gen 2 (Gen2X enhanced)
Industry Segments	Retail Apparel
Applications	Brand Protection Home Essentials
RoHS	EU Directive 2011/65/EU and Directive (EU) 2015/863
REACH	Regulation (EC) No. 1907/2006

Technical features

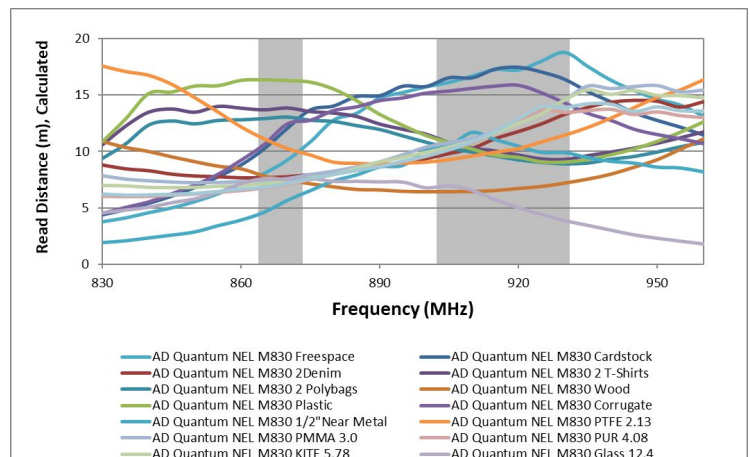
Chip / Chip Attachment Technology	Impinj M830 / Strap Attach		
EPC and User Memory	128-bit EPC		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	IL-613724	IL-613725	IL-613726
Delivery Format	RIF Dry inlay	Wet inlay	Label / sticker
Die-Cut Dimensions	-	33 x 44.45 mm / 1.3 x 1.75 in	33 x 44.45 mm / 1.3 x 1.75 in
Die-Cut Corner Radius	-	1.59 mm / 0.06	-
Inlay Substrate	Paper 40#	Paper 40#	Paper 40#
Face Sheet	-	-	Paper TT2C
Adhesive	-	S4905L	S4905L
Total Thickness (over chip and release liner)	10.6 - 12.6 mils / 269 - 320 microns	11.8 - 13.8 mils / 300 - 350 microns	16.2 - 18.2 mils / 411 - 462 microns
Standard Pitch	63.5 mm / 2.5 in	63.5 mm / 2.5 in	63.5 mm / 2.5 in
Web Width	36.83 mm / 1.45 in	36.83 mm / 1.45 in	36.83 mm / 1.45 in
Core Size	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel			
Size of Roll	Max OD 15 "	Max OD 12"	MAX OD: 8"
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F		
On-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.

Find more label solutions at
rfid.averydennison.com



#MakingPossible

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