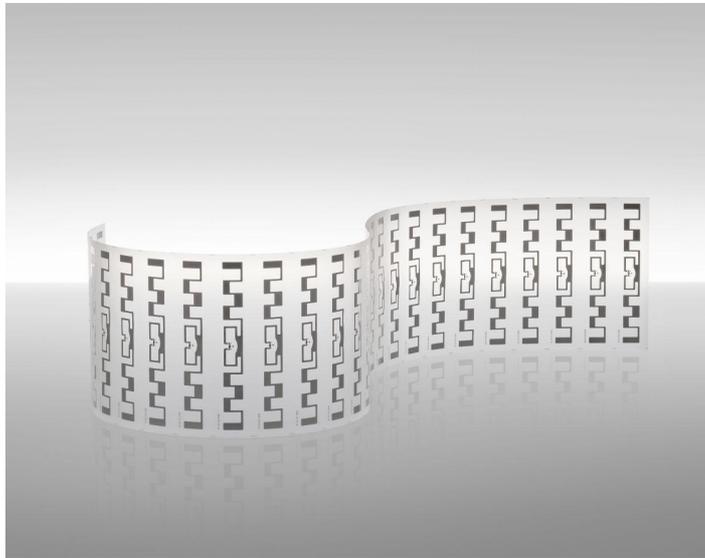


AD Squarewave U9XM



High Performance and Extended Memory Capacity for Smarter Logistics

The AD Squarewave U9XM inlays from Avery Dennison Smartrac are a perfect fit for logistics and supply chain applications that demand exceptional reliability and data capacity. Powered by the NXP UCODE 9xm IC, these inlays deliver superior RF performance across a wide range of materials, combined with large integrated memory and robust data-handling features. The result is reliable, high-performance tracking in even the most challenging logistics environments.

Key Features:

Extended Memory Capacity for logistics

NXP UCODE 9xm IC:
 256-bit of EPC memory
 624-bit user memory
 96-bit unique factory-locked TID number
 48-bit unique serial number (factory-encoded into TID)

Advanced features like self-adjust, memory safeguard, and brand identifier ensure peak performance, data protection, and brand integrity.

Like all RFID products from Avery Dennison, AD Squarewave U9XM 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

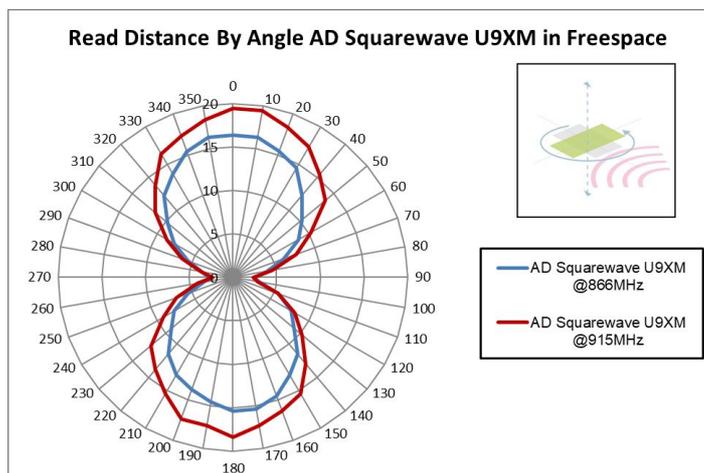
Frequency Band	UHF 860 - 960 MHz
Chip / Chip Attachment Technology	NXP UCODE 9xm / Direct chip attach
Antenna Dimensions	93 x 11 mm / 3.67 x 0.43 in
International Standard	ISO 18000-63 EPC class 1 Gen 2
Industry Segments	Logistics
Applications	Supply Chain Management Inventory and Logistics
RoHS	EU Directive 2011/65/EU and Directive (EU) 2015/863
REACH	Regulation (EC) No. 1907/2006

Technical features

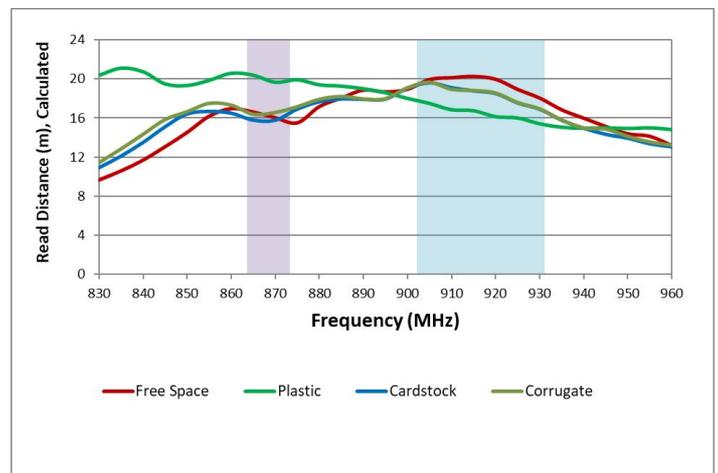
Chip / Chip Attachment Technology	NXP UCODE 9xm / Direct chip attach (DCA)	
EPC and User Memory	256-bit and 624-bit	
TID Memory	96-bit / 48-bit unique serial number	
Product Code	IL-614068	IL-614066
Delivery Format	Dry inlay	RIF Wet inlay
Die-Cut Dimensions	-	96 x 14 mm / 3.78 x 0.55 in
Die-Cut Corner Radius	-	1.59 mm / 0.06 in
Inlay Substrate	PET	PET
Face Sheet	-	PET Clear
Adhesive	-	RA-5
Total Thickness (over chip and release liner)	7.20 mils / 183 microns	11.37 mils / 289 microns
Standard Pitch	22.225 mm / 0.875 in	22.225 mm / 0.875 in
Web Width	101.6 mm / 4 in	101.6 mm / 4 in
Core Size	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	20,000 pcs/reel	20,000 pcs/reel
Size of Roll	Max OD 330.2 mm	Max OD 330.2 mm
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.

Find more label solutions at
rfid.averydennison.com



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