AD Dogbone U9XM

High-Performance and extended memory capacity in demanding applications for Automotive, Supply Chain & Industrial Applications

AD Dogbone U9XM inlays from Avery Dennison Smartrac are ideal for industrial, automotive, and supply chain applications that require the Dogbone's superior RF performance on a variety of materials, combined with large integrated memory and robust data features for use in demanding environments.

Key Features:

Extended Memory Capacity

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 functionality to optimize performance and data integrity such as self adjust feature, memory safeguard to help protect critical data and brand identifier.

Quality & Environmental Compliance: Compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management standards.

Overview

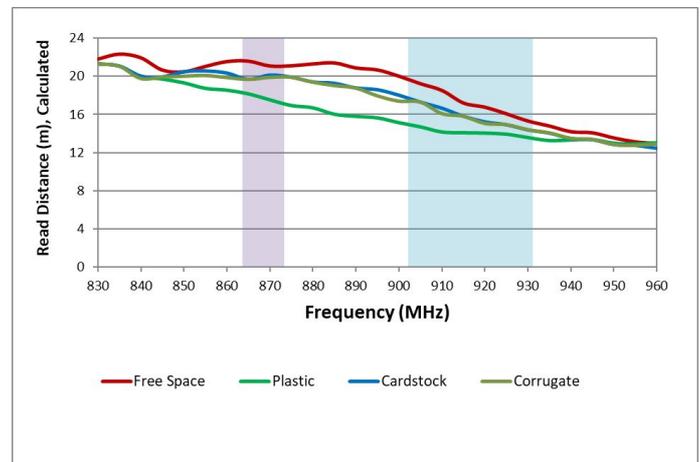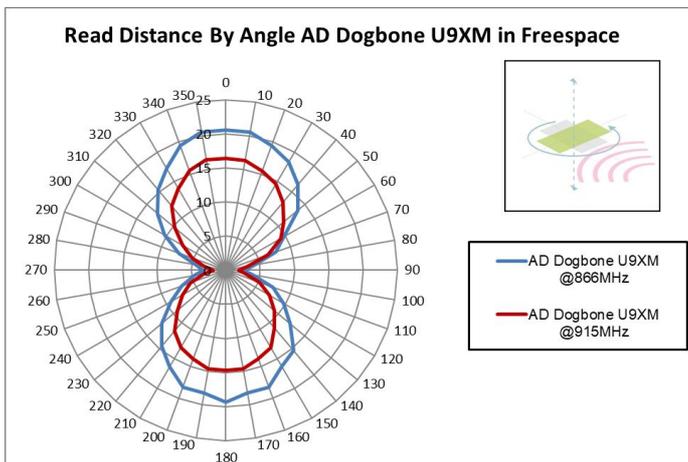|	
Frequency Band	UHF 860 - 960 MHz
Chip / Chip Attachment Technology	NXP UCODE 9xm / Direct chip attach
Antenna Dimensions	94 x 24 mm / 3.7 x 0.95 in
International Standard	ISO 18000-63 EPC class 1 Gen 2
Industry Segments	Automotive Industry Logistics
Applications	RTI Automobile Tracking Inventory
RoHS	EU Directive 2011/65/EU and Directive (EU) 2015/863
REACH	Regulation (EC) No. 1907/2006

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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-614105	IL-614104
Delivery Format	Dry inlay	Wet inlay
Die-Cut Dimensions	-	97 x 27 mm / 3.82 x 1.06 in
Die-Cut Corner Radius	-	3 mm / 0.11 in
Inlay Substrate	PET	PET
Face Sheet	-	-
Adhesive	-	RA-2
Total Thickness (over chip and release liner)	4.72441 mils / 120 microns	4.72441 mils / 120 microns
Standard Pitch	30 mm / 1.81 in	30 mm / 1.81 in
Web Width	100 mm / 3.94 in	100 mm / 3.94 in
Core Size	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	10,000 pcs/reel	5,000 pcs/reel
Size of Roll	Max OD 15"	Max OD 12"
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F	
On-Metal	Non metal	
ARC Certificates	NA	

*Other product codes available upon request.

Orientation sensitivity

Read Distance By Angle AD Dogbone U9XM in Freespace

— AD Dogbone U9XM @866MHz
— AD Dogbone U9XM @915MHz

Read range

— Free Space — Plastic — Cardstock — Corrugate

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

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