

AD G7 U9XM

Robust Windshield Tag with Expanded Memory for MLFF and Automotive Applications



AD G7 U9XM is an inlay engineered specifically for automotive applications, delivering reliable performance on non-metallic solar films commonly used on passenger car windshields. Optimized for toll payment systems—including MLFF tolling, a Multi-Lane Free-Flow electronic toll collection system—as well as vehicle identification and tracking, it provides consistent, accurate reads even in demanding traffic environments.

Designed for external application, the AD G7 U9XM is built to endure harsh outdoor conditions, including UV exposure, rain, and temperature fluctuations, while its anti-tamper fragile antenna adds an extra layer of security against unauthorized removal.

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)

Overview

Frequency Band	UHF 860 - 960 MHz
Chip / Chip Attachment Technology	NXP UCODE 9xm / Direct chip attach
Antenna Dimensions	100 x 19.5 mm / 3.94 x 0.77 in
International Standard	ISO 18000-63, EPC Class 1 Gen 2
Industry Segments	Automotive
Applications	Vehicle tracking MLFF tolling payment
RoHS	EU Directive 2011/65/EU and Directive (EU) 2015/863
REACH	Regulation (EC) No. 1907/2006

Suitable for installation on either vehicle or motorcycle windshields, the AD G7 U9xm delivers a robust, secure, and future-ready solution for modern automotive tolling and tracking systems.

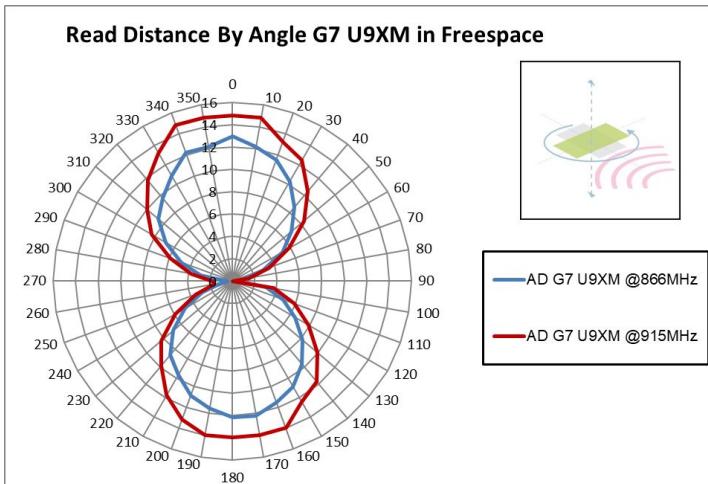
Quality & Environmental Compliance: Compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management standards.

Technical features

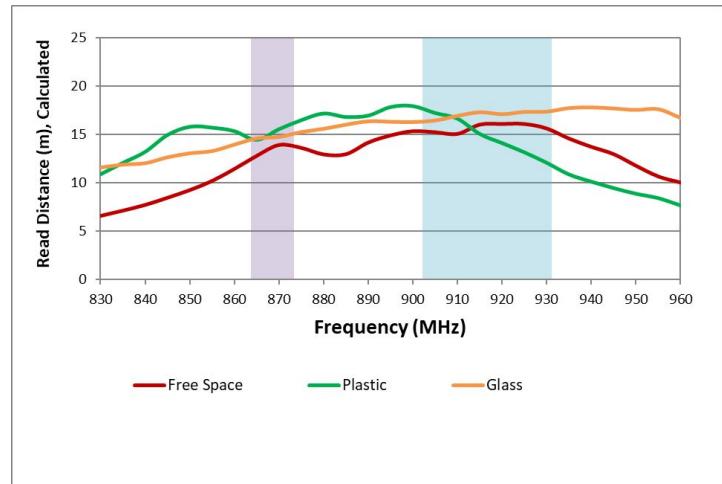
Chip / Chip Attachment Technology	NXP UCODE 9xm / Direct Chip Attach
EPC and User Memory	256-bit and 624-bit
TID Memory	96-bit / 48-bit unique serial number
Product Code	IL-612434
Delivery Format	Wet inlay
Die-Cut Dimensions	106 x 26 mm / 4.17 x 1.02 in
Die-Cut Corner Radius	3 mm / 0.12 inch
Inlay Substrate	Clear PET 100
Face Sheet	-
Adhesive	RA-37
Total Thickness (over chip and release liner)	12.95 mils / 329 microns
Standard Pitch	39 mm / 1.535 in
Web Width	112 mm / 4.409 in
Core Size	76 mm / 3 in
Quantity / Reel	2,500 pcs/reel
Size of Roll	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 range



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

