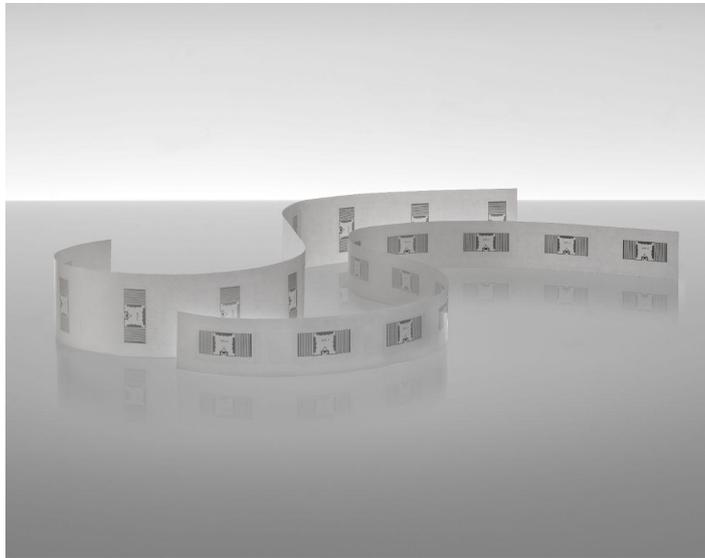


AD Shelter Steri



Overview

Frequency Band	UHF 860 - 960 MHz
Chip / Chip Attachment Technology	Kiloway KX2005X-S
Antenna Dimensions	12.5 x 30 mm / 0.49 x 1.18 in (NEL) 30 x 12.5 mm / 1.18 x 0.49 in (WEL)
International Standard	ISO 18000-63, EPC Class 1 Gen 2
Industry Segments	Healthcare
Applications	Item Level Inventory Accuracy Brand Protection
RoHS	EU Directive 2011/65/EU and Directive (EU) 2015/863
REACH	Regulation (EC) No. 1907/2006

Withstands the harshest sterilization — Autoclave, EtO, and Gamma-resistant RFID

AD Shelter KX2005X-S Steri is a sterilization-proof RFID tag engineered to maintain full performance and resist damage from major sterilization methods: gamma radiation (On drug tagging - glass and PP containers), autoclave, and EtO (ethylene oxide).

The product has been evaluated for compatibility with common sterilization methods used in medical and healthcare applications. The following sterilization techniques were tested under standard, validated conditions:

- **Autoclave (Steam Sterilization)**
Tested using saturated steam at 121°C under controlled pressure and exposure time representative of typical medical sterilization cycles.
- **Ethylene Oxide (EtO) Sterilization**
Assessed under standard EtO sterilization parameters, including controlled temperature, gas concentration, humidity, and aeration conditions.
- **Gamma Radiation**
Evaluated using Cobalt-60 as the radiation source, within the standard industrial sterilization dose range.

Designed and tested on Class 2 substrates: PP, Glass Vial, PP Panel, and Glass Panel.

All sterilization tests were conducted under validated laboratory conditions to ensure material integrity and performance consistency after sterilization.

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

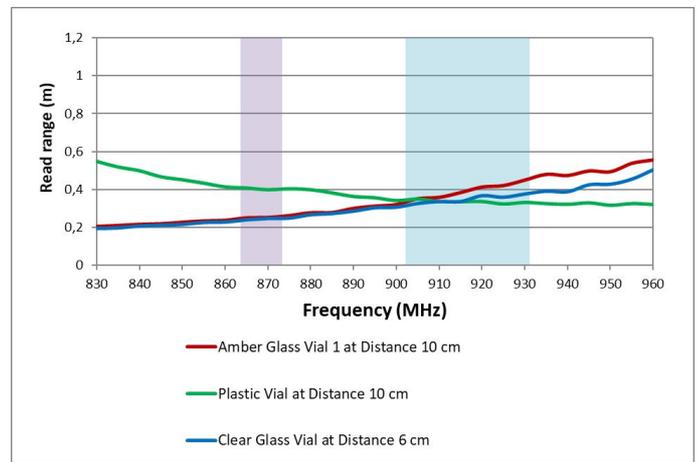
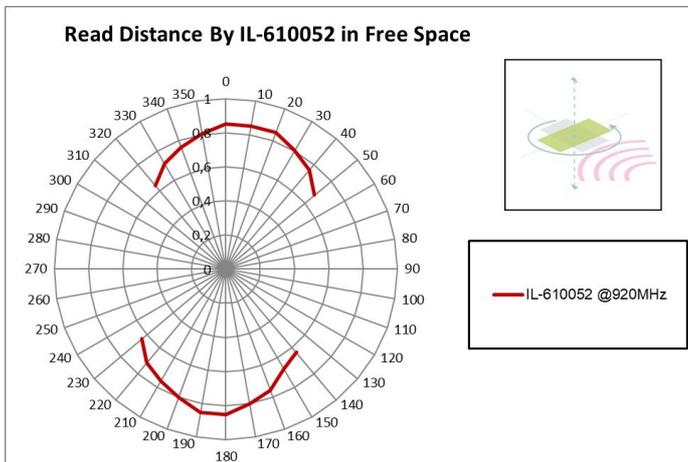
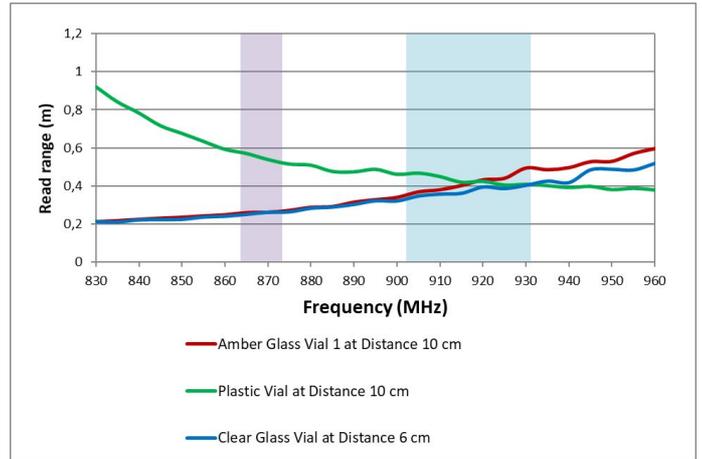
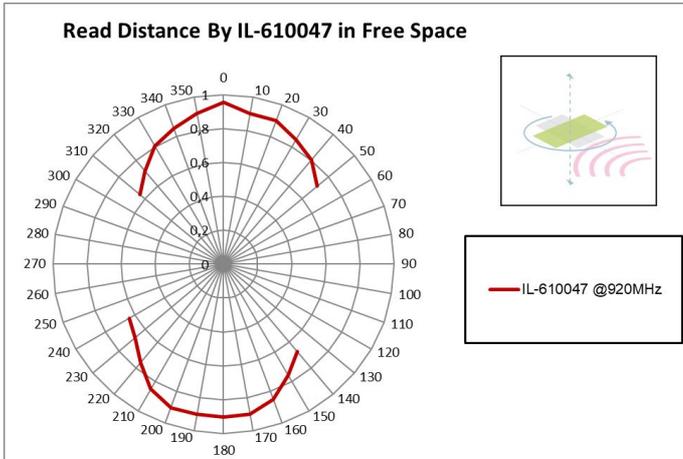
Technical features

Chip / Chip Attachment Technology	Kiloway KX2005X-S	
EPC and User Memory	96 ~128 -bit EPC	
TID Memory	96-bit / 48-bit unique serial number	
Product Code	IL-610047 (NEL)	IL-610052 (WEL)
Delivery Format	Label	Label
Die-Cut Dimensions	18 x 51.1 mm / 0.7x 2.0 in	33 x 51.1 mm / 1.3 x 2.0 in
Die-Cut Corner Radius	3 mm / 0.11 in	3 mm / 0.11 in
Inlay Substrate	PET	PET
Face Sheet	Clear PET	Clear PET
Adhesive	Acrylic adhesive PSA	Acrylic adhesive PSA
Total Thickness (over chip and release liner)	9.84 mils / 250 microns	9.84 mils / 250 microns
Standard Pitch	54.1 mm / 2.13 in	54.1 mm / 2.13 in
Web Width	25 mm / 0.98 in	40 mm / 1.87 in
Core Size	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	3,000 pcs/reel	3,000 pcs/reel
Size of Roll	Max OD 8"	Max OD 8"
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



Designed for the following substrates: PP, Glass Vial, PP Panel, and Glass Panel. Not optimized for free air or carton tagging.

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

Find more label solutions at
rfid.averydennison.com



#MakingPossible

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