verify. quantify. **≍ERAF**⊁®

Dot XS-Autoclavable Version



Functional Specifications

RF air protocol	EPC Global Class1Gen 2; ISO18000-6C
Operational frequency	UHF 902-928 MHz (US); 866-868 MHz (EU)
IC type	Alien Higgs-3
Memory configuration	96-EPC bits; 512-bit user memory
Functionality	Read / write (user programmed)
Memory – expected read / write cycles	100,000 cycles at 77°F (25°C)
Data retention	Up to 50 years ¹
Warranty (limited)	1 year
Material	Ceramic
Color	Black ³
Weight	0.012 oz (0.34 g)

Performance Characteristics

Read range on metal (2W ERP) ²	Up to 5 ft (1.5 m)
Polarization	Linear



 $^{^{2}\,}$ Actual read range may vary based upon use case and attachment methods.

³To prevent adverse reaction with glue during autoclave, delivered tags that use a glue attachment method on the instruments will not be coated with an external layer of paint. To ensure the best results for the solution, it is advisable to use the glue provided by Xerafy.



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Environmental and Industry Compliance

Compression strength	Packaging dependent
IP classification	IP68
Standard compliancy	RoHS (EU Directive 2011/65/EU) , CE (EU version)
Operational temperature (MIL STD 810-F)	-40°F to +185°F (-40°C to +85°C)
Application temperature (MIL STD 810-F)	-40°F to +302°F (-40°C to +150°C)
Humidity	
Operational humidity Storage humidity	5%-95% non-condensing 5%-95% non-condensing

Cleaning and Disinfection Process (ANSI/AAMI ST79)

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L'hemical	sterilization	tor decont	amination

Liquid chemical sterilants include glutaraldehyde, hydrogen peroxide, hydrogen peroxide-peracetic Pass acid combinations, sodium hypochlorite, and peracetic acid.

Thermal (hot water) disinfection

- Washer-sanitizers, washer-decontaminators, utensil washers, and cart washers reduce microbial contamination by means of cleaning agents, hot water, rinsing, and drying.
- Pasteurization equipment provides cleaning and high-level disinfection at water temperatures of 65°C to 77°C (150°F to 170°F) for a contact time of at least 30 minutes.
- Washer-disinfectors provide a cycle of cleaning, rinsing, disinfection, and drying at temperatures that are usually higher than those of washer-sanitizers

Thermal sterilization for decontamination

Saturated steam can be used to decontaminate devices capable of withstanding high temperatures [121°C to 135°C [250°F to 275°F]] and pressures (16 to 35 psig). Washer-sterilizers provide cleaning and rinsing followed by exposure to saturated steam at temperatures of 121°C to 135°C (250°F to 275°F).

Pass

Pass

Ultrasonic cleaner 3KHz for 30 min

Disinfection by light

Pass

C wave ultraviolet and wavelength range is from 200nrn to 275nrn

Pass

Detergent enzyme cleaner

Pass Pass

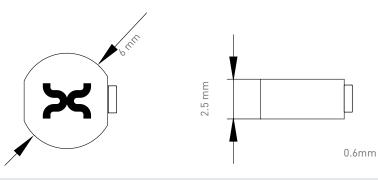
Autoclave sterilization 134 °C and 0.6 Mpa for more than 1000 cycles

Application and Installation

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Application	Surgical instruments
Applicable surface	Metal
Mounting methods	Glue
Glue	Autoclavable , meets USP Class VI and ISO 10993-5 cytotoxicity requirement

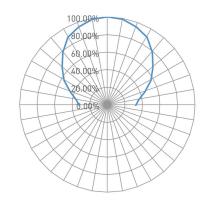


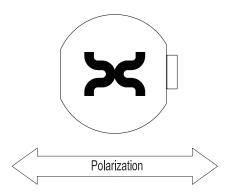
Product Dimensions



Dimensions (mm)	ø 6 x 2.5
tolerance	+/- 0.2
Dimensions (in)	ø 0.24 x 0.1
tolerance	+/- 0.008

Radiation Pattern and Polarization







Order information

X4102-US040-H3	Autoclavable Dot XS US (Painted)
X4102-EU040-H3	Autoclavable Dot XS EU (Painted)
X4102-US080-H3	Autoclavable Dot XS US (Unpainted)
X4102-EU080-H3	Autoclavable Dot XS EU (Unpainted)