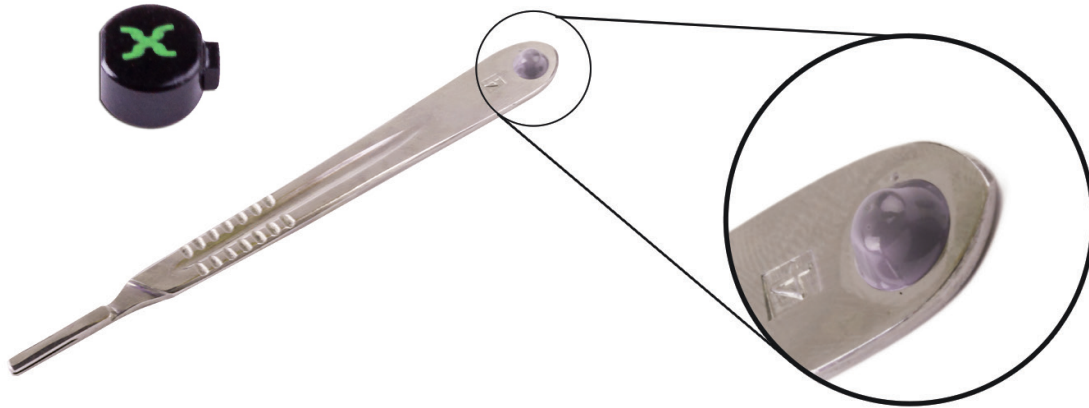


Dot XXS-Autoclavable Version



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
Read rate	400 tags per second for 96-EPC bit
Warranty (limited)	1 year
Material	Ceramic ³
Weight	0.006 oz (0.16 g)

Performance Characteristics

Read range on metal [2W ERP] ²	Up to 1.6 ft (0.5 m)
Polarization	Linear



¹ The chip data retention is based on chip operating under general environment conditions.

² Actual read range may vary based upon use case and attachment methods

³ To prevent adverse reaction with glue during autoclave, all autoclavable tags are not coated with an external layer of paint

Environmental and Industry Compliance

FDA class	Class I
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	5%-95% non-condensing
Storage humidity	5%-95% non-condensing

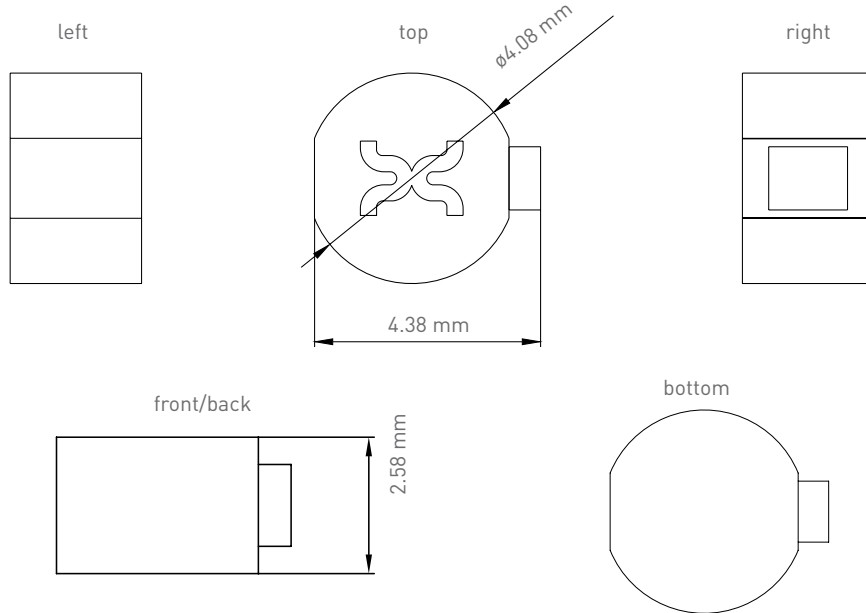
Cleaning and Disinfection Process (ANSI/AAMI ST79)

Chemical sterilization for decontamination Liquid chemical sterilants include glutaraldehyde, hydrogen peroxide, hydrogen peroxide-peracetic acid combinations, sodium hypochlorite, and peracetic acid.	Pass
Thermal (hot water) disinfection <ul style="list-style-type: none"> 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 	Pass
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
Ultrasonic cleaner 3KHz for 30 min	Pass
Disinfection by light C wave ultraviolet and wavelength range is from 200nm to 275nm	Pass
Detergent enzyme cleaner	Pass
Autoclave sterilization 134 °C and 0.6 Mpa for more than 1000 cycles	Pass

Application and Installation

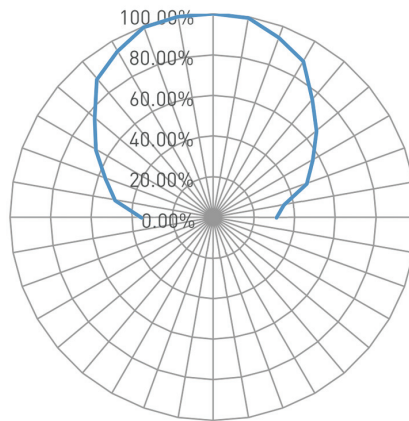
Application	Surgical instruments
Applicable surface	Metal
Mounting methods	Glue, embedded

Product Dimensions



Dimensions (mm)	∅ 4.08 x 2.58
tolerance	+/- 0.2
Dimensions (in)	∅ 0.16 x 0.10
tolerance	+/- 0.008

Radiation Pattern and Polarization



Order information

X4302-US040-H3	Autoclavable Dot XXS US
X4302-EU040-H3	Autoclavable Dot XXS EU