

Pico Plus-Autoclavable Version



Functional Specifications

RF air protocol	EPC Class 1 Gen 2; ISO18000-6C
Operating frequency	UHF 902-928 MHz (US); 866-868 MHz (EU)
IC type	Alien Higgs-3
Memory configuration	96-EPC bits; 512-bit user memory; 64-bit TID
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
Mounting system	High performance adhesive
Color	Charcoal

Performance Characteristics

Read range on metal (2W ERP) ²	Up to 10 ft (3 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 antenna power.

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

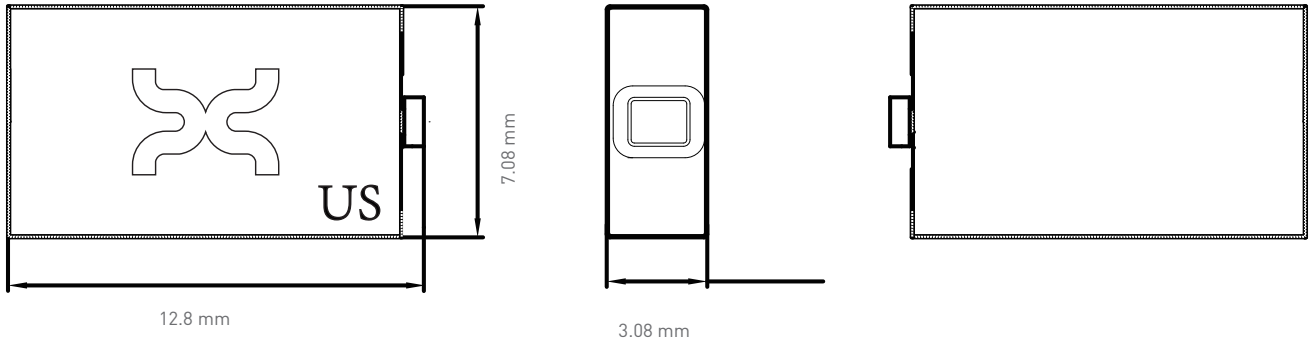
Cleaning and Disinfection Process (ANSI/AAMI ST79)

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

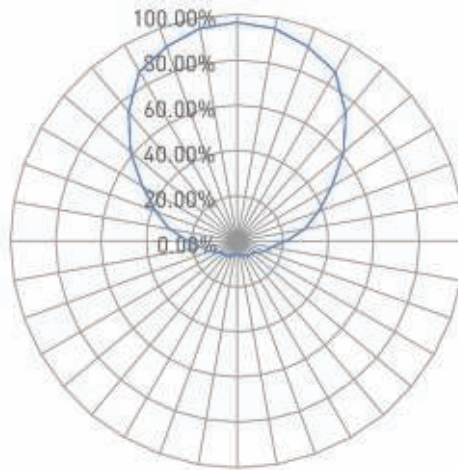
Application	Surgical devices, plastic handle
Applicable surface	Metal, plastic
Mounting methods	Glue, injection mould
Glue	Autoclavable , meets USP Class VI and ISO 10993-5 cytotoxicity requirement

Product Dimensions



Dimensions/tolerance (mm)	12.8 (+/-0.3) x 7.08 (+/-0.3) x 3.08 (+/-0.2)
Dimensions/tolerance (in)	0.50 (+/-0.011) x 0.28 (+/-0.011) x 0.12 (+/-0.008)
Weight	0.05 oz (1.4 g)

Radiation Pattern and Polarization



Order information

X3110-US040-H3	Pico Plus US Autoclavable Version
X3110-EU040-H3	Pico Plus EU Autoclavable Version