



## RF XXS02 AC Tag (Healthcare Version)

**+150°C  
Autoclave**



Product Description	RF XXS02 AC Tag
<b>Electrical Characteristics</b>	
Operating Frequency	UHF 902-928 MHz (US); 866-868 MHz (EU)
Chip type	Alien Higgs-3
RFID Standards	EPCGlobal Class1Gen 2; ISO18000-6C
Read range	Depending on read/write performance of the RFID Reader up to 3 ft (0.9 m)
Memory configuration	96-EPC bits; 512-bit user memory
Memory – expected read / write cycles	100,000 cycles at 77°F (25°C)
Polarization	Linear
Application temperature (MIL STD 810-F)	from -67°F to +302°F (-55°C to +150°C)
Operational temperature (MIL STD 810-F)	from -40°F to +185°F (-40°C to +85°C)
Data preservation	Up to 50 years *
Packaging Protection Class	IP68
FDA class	Class I
Weight	0.004 oz (0.12 g)
RoHs Compliance	YES
Material specifications	Ceramic
Applicable surface	Metal surfaces
<b>Physical Characteristics</b>	
Dimensions: 6.75 x 2.08 x 2.08 (+/- 0.3)mm / 0.26 x 0.08 x 0.08 (+/- 0.012)in	
Article no:	RF XXS02 AC Tag
<b>Typical Applications</b>	
Healthcare & hospital	sample identification
Autoclave cleaning	identification and back tracing
bio/chemistry/forensic/pharmacy/environment	process control, QS & monitoring



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<b>Cleaning and Disinfection Process (ANSI/AAMI ST79)</b>	
<p><b>Chemical sterilization for decontamination</b> Liquid chemical sterilants include glutaraldehyde, hydrogen peroxide, hydrogen peroxide-peracetic acid combinations, sodium hypochlorite, and peracetic acid. <b>Pass</b></p> <p><b>Thermal (hot water) disinfection</b></p> <ul style="list-style-type: none"> <li>• Washer-sanitizers, washer-decontaminators, utensil washers, and cart washers reduce microbial contamination by means of cleaning agents, hot water, rinsing, and drying. <b>Pass</b></li> <li>• 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. <b>Pass</b></li> <li>• Washer-disinfectors provide a cycle of cleaning, rinsing, disinfection, and drying at temperatures that are usually higher than those of washer-sanitizers. <b>Pass</b></li> </ul> <p><b>Thermal sterilization for decontamination</b> 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). <b>Pass</b></p> <p><b>Ultrasonic cleaner</b> 3 KHz for 30 min <b>Pass</b></p> <p><b>Disinfection by light</b> C wave ultraviolet and wavelength range is from 200nm to 275nm <b>Pass</b></p> <p><b>Detergent enzyme cleaner</b> <b>Pass</b></p> <p><b>Autoclave sterilization</b> 134°C and 0,6Mpa for 1000 cycles <b>Pass</b></p>	



### Typical applications (Tag inserted into steel carrier):



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