

## Dot On XS

STANDARD

HIGH TEMPERATURE

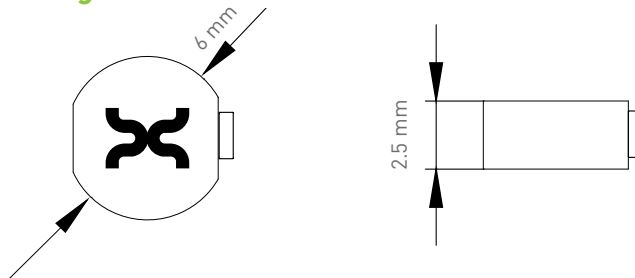
### Functional Specifications

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-bit EPC; 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 <sup>1</sup>
Warranty (limited)	1 year

### Environmental and Industry Compliance

RoHS&REACH	EU Directive 2011/65/EU, EC1907/2006
CE	Yes
ATEX/IECEX	Certified

### Product Dimensions and Weight



Dimensions (mm)	∅ 6 x 2.5
tolerance	+/- 0.2
Dimensions (in)	∅ 0.24 x 0.1
tolerance	+/- 0.008
Weight	0.016 oz (0.44 g)



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**Performance Characteristics**

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

**Physical Specifications**

Material	Ceramic
Mounting system	Epoxy, injection mould
Paint color	Black
Logo color	Grey

**Operational and Environmental Specifications**

Shock (drop)	3 ft (1 m) to concrete/granite up to 200 cycles
Vibration	MIL-STD-810G
Compression strength	Packaging dependent
IP classification	IP 68
Humidity	
Operational humidity	5%-95% non-condensing
Storage humidity	5%-95% non-condensing
Operational temperature	
Cold	-40°F (-40°C)
Dry heat	+185°F (+85°C)
Thermal shock	-22°F to 185°F (-30°C to +85°C); cycled

**STANDARD VERSION**

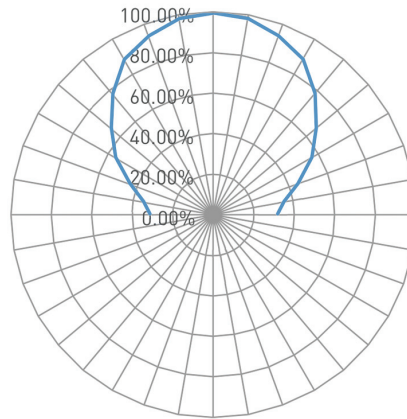
Application temperature	
Cold	-40°F (-40°C)
Dry heat (Long term, hours/days)	+302°F (+150°C)
Dry heat (Short term, minutes)	+428°F (+220°C)

**HIGH TEMPERATURE VERSION**

Application temperature*	
Cold	-40°F (-40°C)
Dry heat (Long term, hours/days)	+428°F (+220°C)
Dry heat (Short term, hours)	+482°F (+250°C) 6 hours
Peak temperature	+716°F (+380°C) less than 10 seconds

\*The tag performance in high temperature application depends on tag mounting method and environmental conditions.

## Radiation Pattern



On metal

## Order information

X4102-US000-H3	Dot On US Standard Version
X4102-EU000-H3	Dot On EU Standard Version
X4102-US050-H3	Dot On US High Temperature Version
X4102-EU050-H3	Dot On EU High Temperature Version

## Dot XS

**AUTOCLAVABLE**

For more information on Dot XS autoclavable version, please download [here](#) or contact us at [sales@xerafy.com](mailto:sales@xerafy.com)