verify. quantify. **≍∈ref** ≥ °

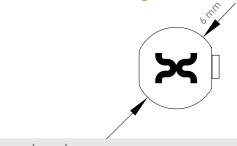
Dot On XS

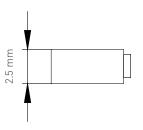
STANDARD	HIGH TEMPERATURE
Functional Specifications	
RF air protocol	EPC Class 1 Gen 2; ISO18000-6C
Operating frequency	UHF 902-928 MHz (US); 866-868 MHz (EU)
IC type	Alien Higgs-3
Memory configuration	96-bit EPC; 512-bit user memory; 64-bit TID
Functionality	Read / write (user programmed)
Memory – expected read / write cycles	100,000 cycles at 77°F (25°C)
Data retention	Up to 50 years ¹
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)	ø 6 x 2.5
tolerance	+/- 0.2
Dimensions (in)	ø 0.24 x 0.1
tolerance	+/- 0.008
Weight	0.016 oz (0.44 g)





Dot-On XS

STANDARD

HIGH TEMPERATURE



Performance Characteristics

Read range on metal (2W ERP) ²	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 Storage humidity	5%-95% non-condensing 5%-95% non-condensing
Operational temperature Cold Dry heat Thermal shock	-40°F (-400°C) +185°F (+85°C) -22°F to 185°F (-30°C to +85°C); cycled
STANDARD VERSION	
Application temperature Cold Dry heat (Long term, hours/days) Dry heat (Short term, minutes)	-40°F (-40°C) +302°F (+150°C) +428°F (+220°C)

HIGH TEMPERATURE VERSION

Application temperature*

Cold $-40^{\circ}F(-40^{\circ}C)$ Dry heat (Long term, hours/days) $+428^{\circ}F(+220^{\circ}C)$

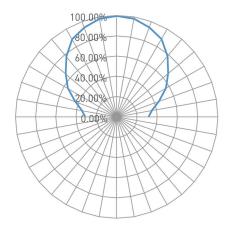
Dry heat (Short term, hours) +482°F (+250°C) 6 hours

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 <u>here</u> or contact us at sales@xerafy.com

Datasheet: 11.11.15