# verify. quantify. ★**ERAF**⊁®

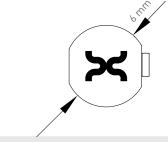
# Dot XS

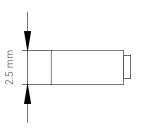
STANDARD	HIGH TEMPERATURE	AUTOCLAVABLE
Functional Specifications		
RF air protocol	EPC Class 1 Ge	en 2; ISO18000-6C
Operating frequency	UHF 902-928 N	1Hz (US); 866-868 MHz (EU)
IC type	Alien Higgs-3	
Memory configuration	96-bit EPC; 512	2-bit user memory; 64-bit TID
Functionality	Read / write (u	ser 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 se	econd for 96-EPC bit number
Warranty (limited)	1 year	

### **Environmental and Industry Compliance**

RoHS	EU Directive 2011/65/EU
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-iN XS

#### **HIGH TEMPERATURE STANDARD**



#### **Performance Characteristics**

Read range in metal (2W ERP) <sup>2</sup>	Up to 3 ft (1 m)
Polarization	Linear

### **Physical Specifications**

Material	Ceramic
Mounting system	Epoxy, embedded
Paint color	White
Logo color	Green

### Operational and Environmental Specifications

operational and Environmental Specifications	
Shock (drop)	3 ft (1 m) to concrete/granite up to 200 cycles
Vibration	MIL-STD-810F
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 (-40°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*	

Application temperature

-40°F (-40°C) Dry heat (Long term, hours/days) +428°F (+220°C)

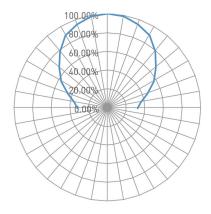
Dry heat (Short term, hours) +482°F (+250°C) 6 hours

Peak temperature +716°F (+380°C) less than 10 seconds

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



#### **Radiation Pattern**



In metal

#### **Order information**

X4202-US000-H3	Dot iN US Standard Version
X4202-EU000-H3	Dot iN EU Standard Version
X4202-US050-H3	Dot iN US High Temperature Version
X4202-EU050-H3	Dot iN US 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



# Dot-On XS

### **STANDARD**

### **HIGH TEMPERATURE**



### **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-810F
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	
A 1' 1' 1 4	

Application temperature\*

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

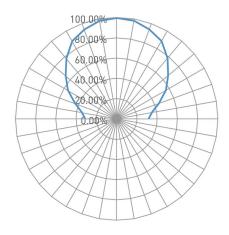
Dry heat (Short term, hours) +482°F (+250°C) 6 hours

Peak temperature +716°F (+380°C) less than 10 seconds

<sup>\*</sup>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**

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