

verify. quantify. 🔀 🖉 🖉



Functional Specifications

RF air protocol	EPC Class 1 Gen 2; IS018000-6C
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
Read rate	400 tags per second for 96-EPC bit number
Warranty (limited)	1 year

Performance Characteristics

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

Physical Specifications

Material	Ceramic
Mounting system	Ероху
Color	White

Environmental and Industry Compliance

RoHS	EU Directive 2002/95/EC
ATEX	ATEX Compliant
Autoclavable	Yes

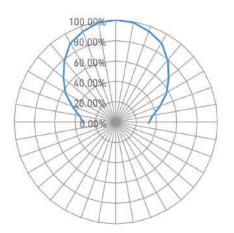


For product inquiries: sales@xerafy.com

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.



Radiation Pattern

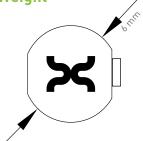


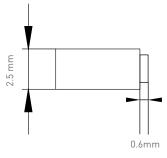
In metal

Operational and Environmental Specifications

Operational temperature Cold Dry heat (Long term, days/weeks/years)	-40°F (-40°C) +185°F (+85°C)
Application temperature Cold Dry heat (Short term, minutes/hours)	-40°F (-40°C) +302°F (+150°C)
Humidity Operational humidity Storage humidity	5%-95% non-condensing 5%-95% non-condensing
Shock (drop)	3 ft (1 m) to concrete/granite up to 200 cycles
Vibration	MIL-STD-810F
IP classification	IP68

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	0.012 oz (0.34 g)

Order information

X4202-US000-H3	Dot iN US
X4202-EU000-H3	Dot iN EU

For product inquiries: sales@xerafy.com

www.xerafy.com