

Dot-iN XS

P/N: X4202-US000-H3 / X4202-EU000-H3



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-EPC bits; 512-bit user memory
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	Epoxy
Color	White

Environmental and Industry Compliance

FDA Class	Class II
Global Unique Device Identification Database (GUDID)	Support
RoHS	EU Directive 2002/95/EC
ATEX	ATEX Compliant
Autoclavable	Yes

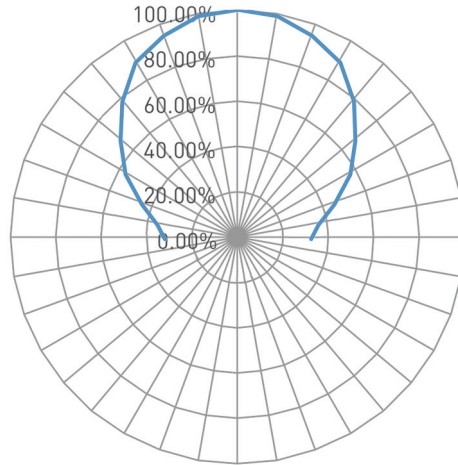


¹ The chip data retention is based on chip operating under general environment conditions.

² Actual read range may vary based upon use case and antenna power.

Radiation Pattern

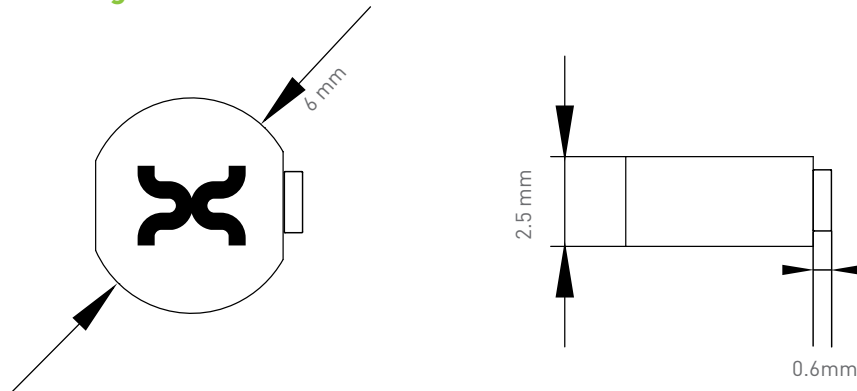
In metal



Operational and Environmental Specifications

Operational temperature	
Cold	-40°F (-40°C)
Dry heat	+185°F (+85°C)
Application temperature	
Cold	-40°F (-40°C)
Dry heat	+302°F (+150°C)
Humidity	
Operational humidity	5%-95% non-condensing
Storage humidity	5%-95% non-condensing
Shock (drop)	3 ft (1 m) to concrete/granite up to 200 cycles
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)