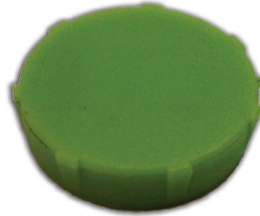


Nano Wedge

P/N: X1123-US101-H3 / X1123-EU101-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 13.1 ft (4 m)
Polarization	Linear

Physical Specifications

Material	Engineering grade nylon polymer
Mounting system	Plug in, epoxy (optional)
Color	Green

Environmental and Industry Compliance

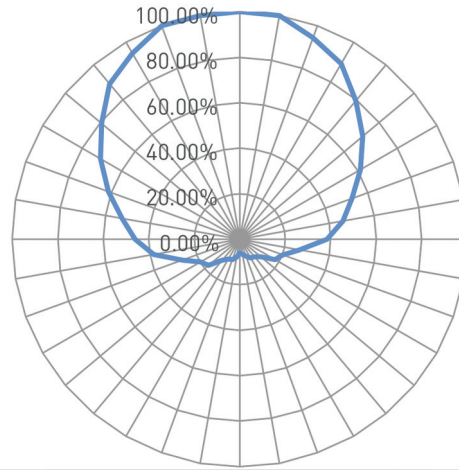
RoHS	EU Directive 2002/95/EC
ATEX	ATEX Compliant
MIL-STD	MIL-STD-810F



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



Operational and Environmental Specifications

Operational temperature

Cold	-22°F (-30°C)
Dry heat	+185°F (+85°C)
Thermal shock	-22°F to 185°F (-30°C to +85°C); cycled

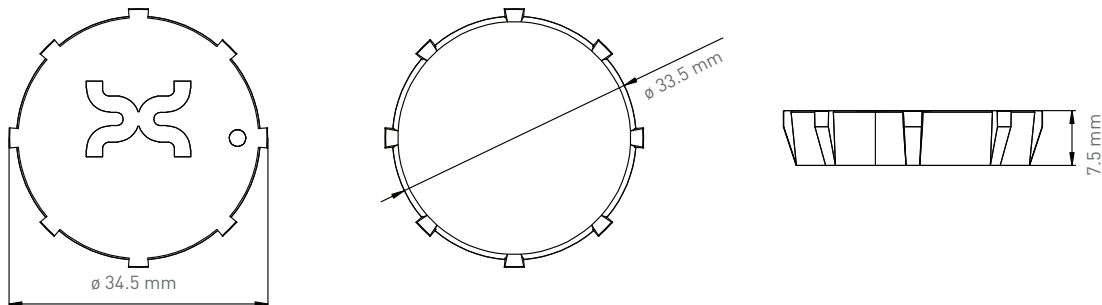
Application temperature

Cold	-22°F (-30°C)
Dry heat	+302°F (+150°C)

Humidity

Operational humidity	5%-95% non-condensing
Storage humidity	5%-95% non-condensing

Product Dimensions and Weight



Dimensions (mm)

ø 34.5 x 7.5

tolerance

ø 34.5(+/-0.2) x 7.5(+/-0.15)

Dimensions (in)

ø 1.4 x 0.3

tolerance

ø 1.4(+/-0.008) x 0.3(+/-0.006)

Weight

0.35 oz (10 g)

Cylindrical Socket Dimensions for Flush-mounting

Cylindrical socket dimensions / tolerance (mm)

ø 34(+/- 0.2) x 7.8(+/- 0.2)

Cylindrical socket dimensions / tolerance (in)

ø 1.34(+/- 0.008) x 0.31(+/- 0.008)