

Slim Trak



Functional Specifications

| | |
|---------------------------------------|---|
| RF air protocol | EPC Class 1 Gen 2; ISO18000-6C |
| Operating frequency | UHF 860-930 MHz (Global) |
| 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 |

Performance Characteristics

| | |
|--|----------------------|
| Read range on-metal (2W ERP) ² | Up to 6.5 ft (2 m) |
| Read range off-metal (2W ERP) ² | Up to 4.9 ft (1.5 m) |
| Polarization | Linear |

Physical Specifications

| | |
|-----------------|--|
| Material | FR4 |
| Mounting system | Adhesive (TESA 51972), epoxy (optional) |
| Color | Surface printing: Gray / Logo: Gloss white |

Environmental and Industry Compliance

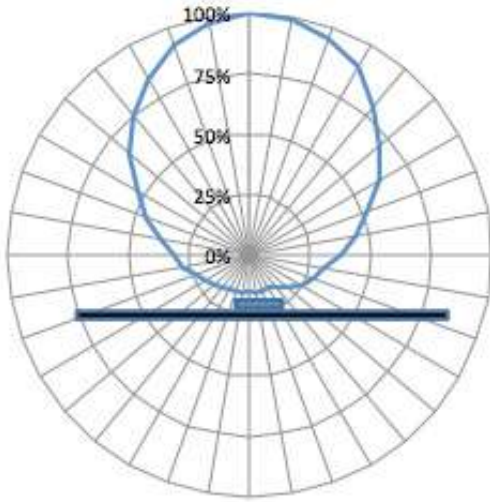
| | |
|------|-------------------------|
| RoHS | EU Directive 2002/95/EC |
| CE | Approved |



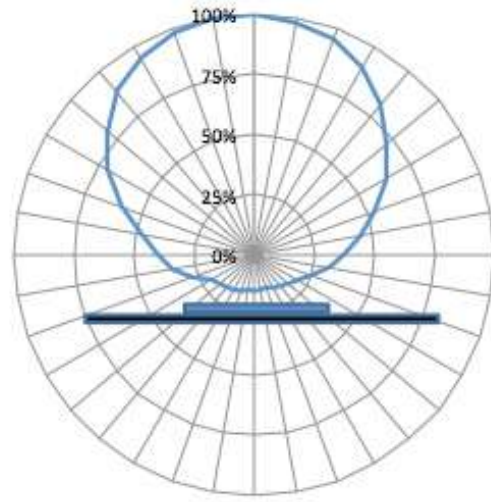
¹ The chip data retention is based on chip operating under general environment conditions.

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

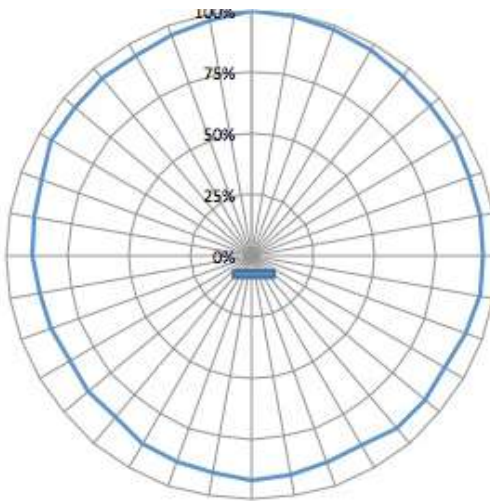
On metal - Horizontal



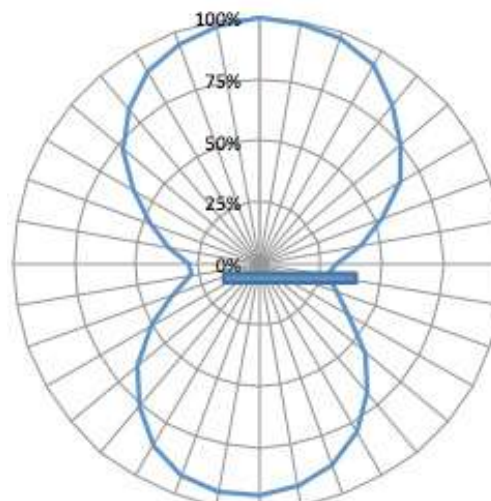
On metal - Vertical



Off metal - Horizontal



Off metal - Vertical



Operational and Environmental Specifications

Operational temperature

| | |
|--|---|
| Cold | -40°F (-40°C) |
| Dry heat (Long term, days/weeks/years) | +185°F (+85°C) |
| Thermal shock | -40°F to 185°F (-40°C to +85°C); cycled |

Application temperature

| | |
|--------------------------------------|-----------------|
| Cold | -40°F (-40°C) |
| Dry heat (Short term, minutes/hours) | +302°F (+150°C) |

Humidity

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

Shock and Vibration

MIL-STD-810F

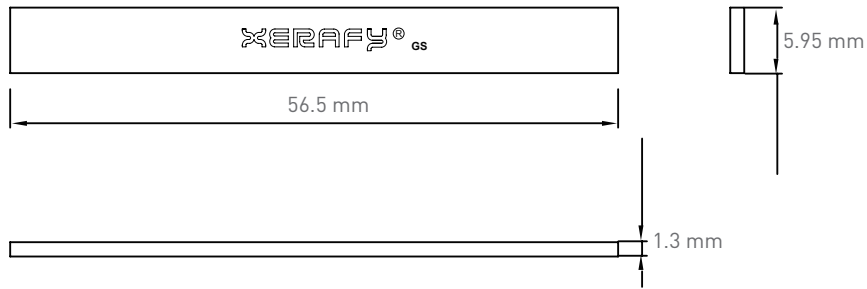
Impact

2kg from 1m

IP classification

IP68

Product Dimensions and Weight



| | |
|-----------------|-----------------------|
| Dimensions (mm) | 56.5 x 5.95 x 1.3 |
| Tolerance | +/- 0.15 |
| Dimensions (in) | 2.22 x 0.234 x 0.0512 |
| Tolerance | +/- 0.006 |
| Weight | 0.035 oz (1 g) |

Order information

| | |
|----------------|-----------|
| X0320-GL001-H3 | Slim Trak |
|----------------|-----------|