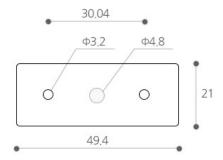
## (((-))) AX'Tag<sub>Transporter</sub>







## **AX'Tag Transporter L II HF**Former reference: AXTAG Biscuit HF

AX'Tag Transporter L HF is the high frequency tag of our Tramsporter range. This tag is meant for on/off metal identification. This IP68 tag is able to withstand strong constraints: it is resistant to high temperatures up to 150°C for more than 2 hours and to chemical and electrical stresses.

### **Key features**

- Powerful high frequency tag
- Identification on and off metal assets
- Harsh environments

## **Applications**

Industry, engine identification, maintenance

## **Functional specifications**

| Туре                   | HF (13.56 MHz)  |
|------------------------|---|
| Air interface protocol | ISO 18000-3<br>ISO15693   |
| IC Type                | ICODE SLI-X   |
| Memory                 | TOTAL 1.024 bits<br>32 blocks, 32 bits per block<br>UID 64 bits |
| Applicable surface     | On/Off metal  |
| Reads range            | 0,1m (on metal)<br>0,05m (off metal)                            |
| Data retention         | 50 years  |
| Write cycle            | 100.000 cycles  |

## **Physical specifications**

| Dimensions, weigth | 49 x 12 x 3.1mm, 6,7g |
|--------------------|-----------------------|
| Tag material       | Antenna: FR4          |

## **Environmental and industry compliance**

| IP classification     | IP68           |
|-----------------------|----------------|
| Storage Temperature   | -40°C to 150°C |
| Operating Temperature | -40°C to 85°C  |

V3.1 Non-contractual datasheet

# (((-))) AX'Tag<sub>Transporter</sub>



## **Durability**

| Test methods         | Descriptions  | Pass/fail |
|----------------------|---|-----------|
| 150°C, 6 hours       | Stored in convection oven at 150C, 6hrs   | Pass      |
| -45<>85°C, 50 cycles | Stored in temperature shock chamber for 50 cycles  – One cycle includes 30 min. at-45C, 30 min, transition, 30min. at 85C and 30min. transition | Pass      |
| 85°C/ 85%            | St ored in humidity chamber at 85C/85%RH for 24hours  | Pass      |
| Boling water, 6 hrs  | Immmersed in boiling water for 6 hours  | Pass      |

## Ingression

| IP Class | IP68 | 1.5 meter deep immersion, 1hr |
|----------|------|-------------------------------|
|----------|------|-------------------------------|

## **Mechanical stress**

| Test methods         | Descriptions   | Pass/fail |
|----------------------|--|-----------|
| Iron ball fall test  | Free fall of 1kg iron ball from 1.5meters height on any side of tag - 50 times | Pass      |
| Vibration            | IEC60068-2-6/64  | Pass      |
| Drop&topple          | IEC60068-2-31  | Pass      |
| Shock (acceleration) | IEC60068-2-22  | Pass      |
| Pressure             | 50 Bar on any side of tag, 50 times  | Pass      |

## **Chemical stress**

| Test methods | Descriptions   | Pass/fail |
|--------------|--|-----------|
| Alkali       | NaOH (10%, pH13)   Immersed 24 hrs.                              | Pass      |
| Acid         | Sulfuric acid (10%, pH2)   Immersed 24 hrs.                      | Pass      |
| Petroleum    | Gasoline, Diesel, Kerosene, lubricating oil   Immersed 24 hrs    | Pass      |
| Alcohol      | Gasoline, Diesel, Kerosene, lubricating oil  <br>Immersed 24 hrs | Pass      |
| Surfactant   | Solvent for metal tool oils   Immersed 24 hrs                    | Pass      |
| Salt water   | IEC60068-2-11  | Pass      |

## **Electrical stress**

| ESD IEC61000-4-2 (LEVEL4 – 8KV) Pass |  |
|--------------------------------------|--|
|--------------------------------------|--|