



## AX'Tag Transporter L II HF

Former reference : AXTAG Biscuit HF

AX'Tag Transporter L HF is the high frequency tag of our Transporter 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

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

## Physical specifications

Dimensions, weight	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

## 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
Boiling water, 6 hrs	Immersed in boiling water for 6 hours	Pass

## Ingression

IP Class	IP68	1.5 meter deep immersion, 1hr
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## 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   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
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