

AnT UHF tag has particular characteristics making it compatible with uses in and on metal.

Thanks to its ultra small size (10 x 2,5 x 2,5 mm) the AnT UHF tag is very easily integrated in small metal equipment, such as industrial hand tools.

AnT UHF tag provides reliable and comfortable identification with a read range up to 1m with [AT-07 UHF Tablet](#).

Key features

- Small size
- Identification in, on and off metal assets
- Durable IP68 rating

Applications

Identification and traceability of industrial small type dimensions tools or requesting a discreet identification space on or in metallic materials: industrial manufacturing, handling, maintenance, equipment goods, security, counterfeiting...

Functional specifications

Type	UHF
Frequency	902-928 MHz (US); 866-868 MHz (EU)
Air interface protocol	ISO 18000-6C EPC Class1 Gen2
IC Type	Alien Higg-3
Memory	EPC 96 bits. User 512 bits. TID 64 bits
Data retention	50 years
Write Cycles	100 000 at 25°C
Functionalities	Read/write
Read range	On Metal: Up to 1 m with AT-07 UHF Tablet Off Metal: Up to 5 cm with AT-07 UHF Tablet
Read Rate	400 tags per second for 96-EPC bit numb

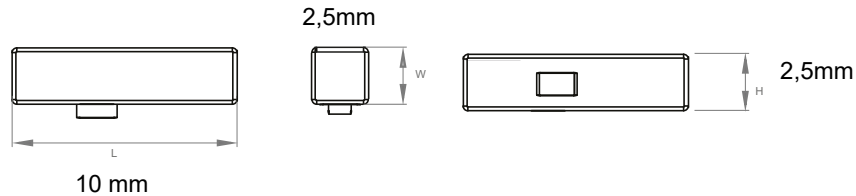
Physical specifications

Dimensions / Weight	10 x 2,5 x 2,5 mm / 0,24g
Tag Material	Ceramic
Mounting Method	Gluing / Adhesive / Resin
Applicable surface	On/in/off metal
Color	Black

Environmental and industry compliance

IP classification	IP68
Storage Temperature	-40°C to 150°C
Operating Temperature	-40°C to 85°C
Resistance	Water, Cleaning products, vibrations

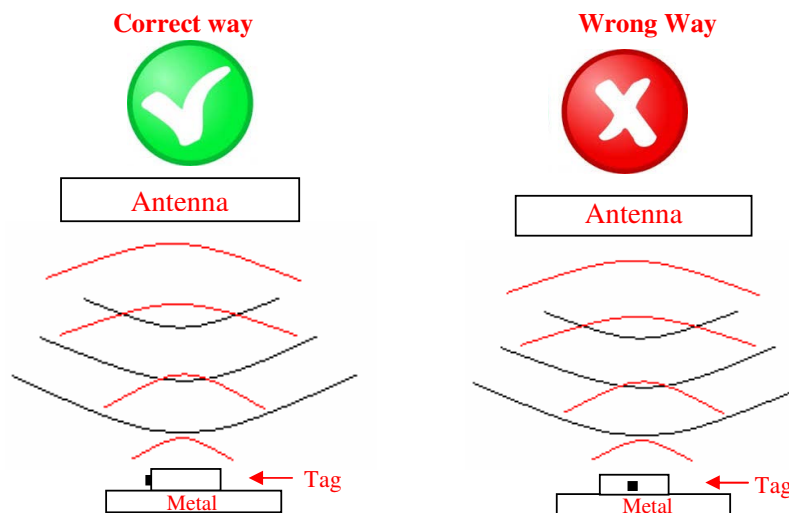
Dimensions



Tag Placement

- Tag can be easily attached through adhesive tape at back.
- Place the tag in such a way that most of its bottom area comes in direct contact with metal.
- If the tag is to be placed/embed in metal then ensure that the tag should be surrounded by metallic surface to get optimum read range.
- Ensure that there is no hindrance between the tag and the reader antenna.

Reader antenna should be parallel to the dotted line as shown in above figure:



Radiation Pattern

