



M-Shield Tag

FEATURES

- Operates effectively with a very good read range, especially when attached to metal.
- Rugged construction for high durability
- Can be attached by screws with the help of two holes.
- Can also be provided with Adhesive tape for easy attachment.
- Flexible Read/Write Range (upto 8-10m, reader dependant).

APPLICATIONS

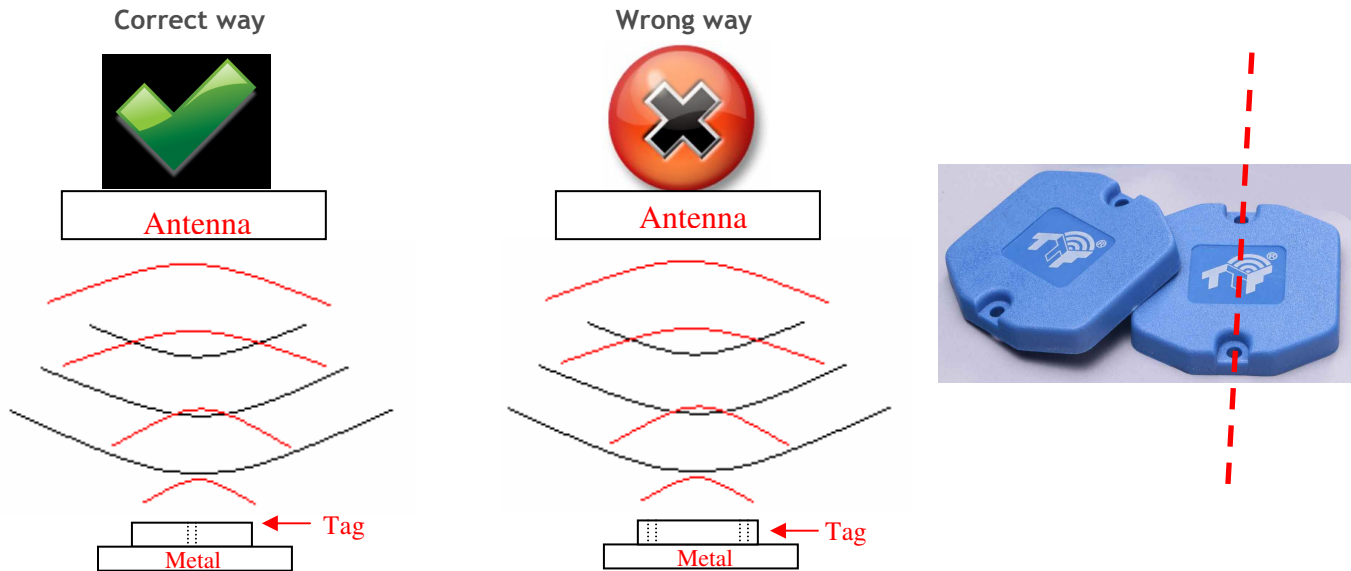
- Used in asset tracking applications such as Equipment, Parts, Containers, railway and warehousing solutions.
- Factory automation, Automotive & Security purpose.

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|----------------------------|---|--|
| Chip Type: | Alien Higgs 3 EPC Class 1 Gen 2 | |
| | EPC 96 bit extendable up to 480 bits | |
| | User Memory 512 bit | |
| | Data retention of 10 years | |
| | Write endurance 100.000 cycles | |
| Mechanical: | Dimension | 53 x 53 x 10 mm |
| | Material | ABS |
| | Colour | Blue |
| | Weight | 23 gm. |
| Electrical: | Operating Frequency | 865-869MHz, (902-928MHz also available on request) |
| | Operating mode | Passive (battery-less transponder) |
| Ingress Protection: | IP67 | |
| Thermal: | Storage Temp. | -25°C to +70°C |
| | Operating Temp. | -25°C to +70°C |
| | Transport Conditions | -40°C to +70°C |
| Part Number: | 31Y01 | |
| Options: | Available with: | |
| | Other IC type and Frequency on request | |
| | Other plastic material and colours e.g. PC/ABS | |
| | Adhesive backing for easy mounting (indoor application) | |
| | Available for non-metallic application | |

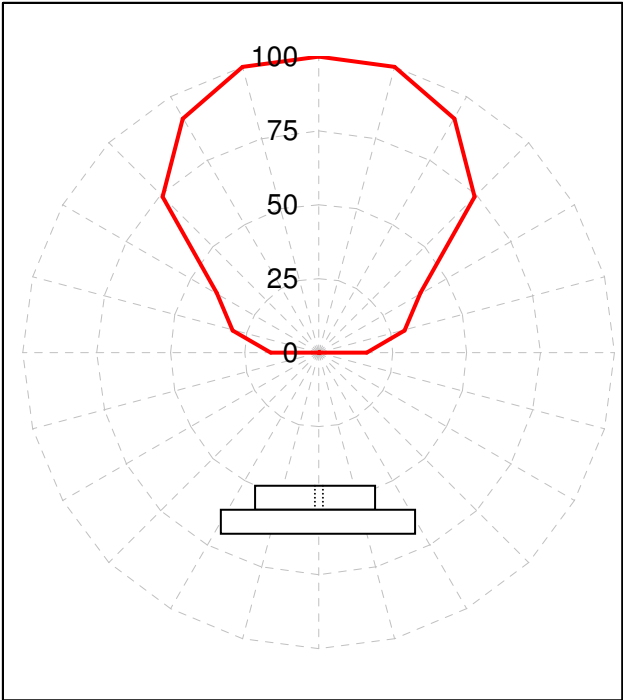


Tag Placement

- M-Shield is polarized perpendicular to TTF logo.
- Place the tag in such a way that most of its bottom area comes in direct contact with metal.
- Ensure that there is no hindrance between the tag and the reader antenna.
- Reader antenna should be perpendicular to the axis of tag hole as shown in below figure:



- Tag can be attached either through screw M4/ Rivets / Adhesive tape.
- The distance between hole to hole is 45.9 mm.
- Attachment through adhesive should be used only for indoor application



Estimated Radiation pattern of tag when placed along its axis.

Read range (in percent) at various angle.