**STALLION**

*Smarter... Faster... Higher...*
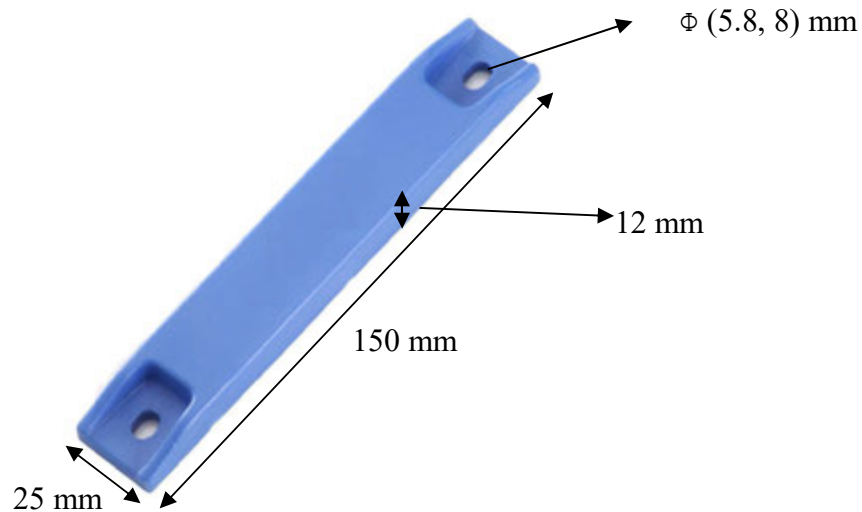
# M-Crown Tag
# (Global)

## FEATURES

- M-Crown is a frequency independent tag and operates effectively with read range of over 15m 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.

## APPLICATIONS

- Due to global frequency tuning and high read range, M-Crown can be effectively used in asset tracking, Ware house management, Containers and Railway Coaches identification in any part of the world irrespective of frequency used in country.
- Factory automation, Automotive & Security purpose.

| | | |
|---|---|---|
| **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 50 years | |
| | Write endurance 100.000 cycles | |
| | | |
| **Mechanical:** | Dimension | 150 x 25 x 12 mm |
| | Material | ABS |
| | Colour | Blue |
| | Weight | 25.8 g |
| | | |
| **Electrical:** | Operating Frequency | 860-960 MHz |
| | Operating mode | Passive (battery-less transponder) |
| | | |
| **Ingress Protection:** | IP67 | |
| | | |
| **Thermal:** | Storage Temp. | -40°C to +85°C |
| | Operating Temp. | -40°C to +85°C |
| | | |
| **Part Number:** | 315V2 | |
| **Options:** | Available with: | |
| | Other IC type on request | |
| | Other plastic material and colours e.g. PC/ABS | |
| | Adhesive backing for easy mounting | |

## Dimension

Φ (5.8, 8) mm

12 mm

150 mm

25 mm

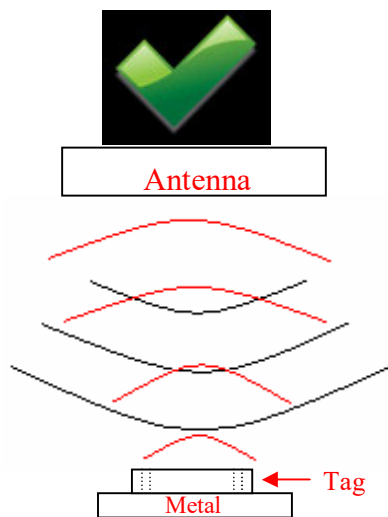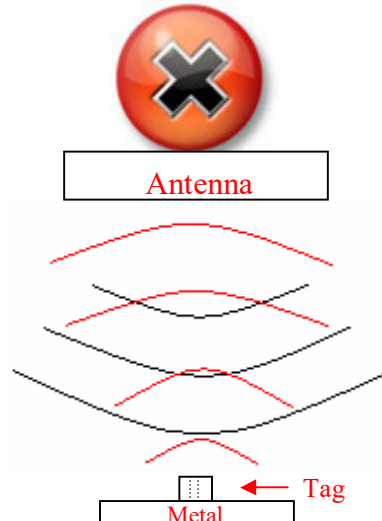## Tag Placement

- M-Crown 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.
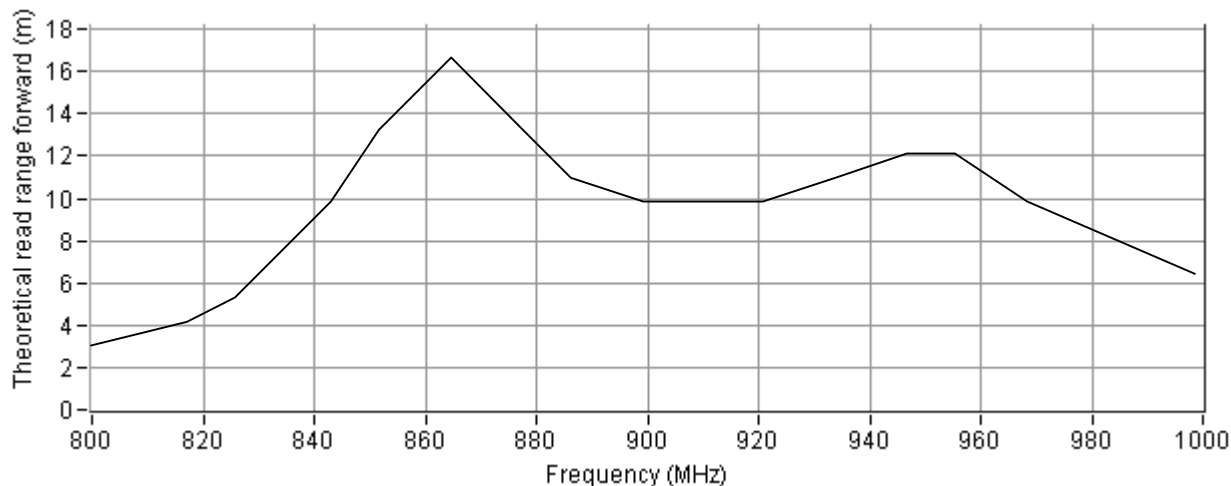- Reader antenna should be parallel to the tag length as shown in below figure:

**Correct way**

Antenna

Tag

Metal

**Wrong way**

Antenna

Tag

Metal

- Tag can be attached either through screw M5/ Rivets / Adhesive tape.
- The distance between hole to hole is 126.5mm. Elliptical shape of hole provides flexible attachment of tag.
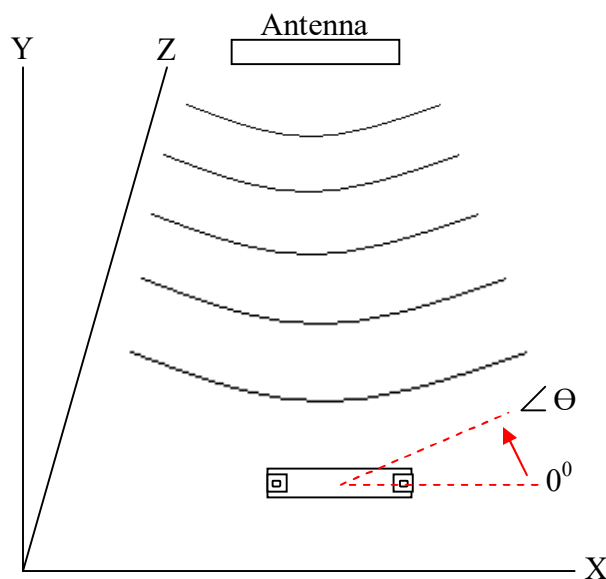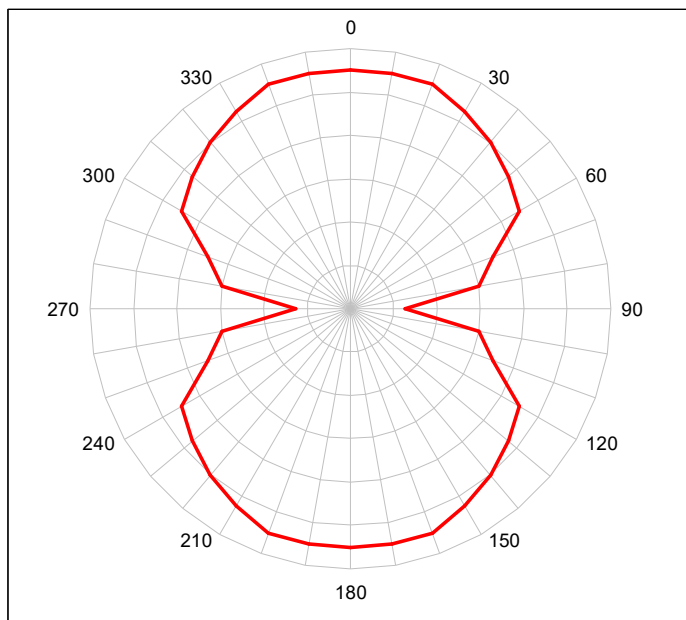
## Frequency v/s Read Range Graph



## Angular Sensitivity

### M-Crown Tag Angular Sensitivity
(Relative Read Range vs. Orientation)





Tag is rotated in the X-Y plane about the z axis