



## M-Crown Tag

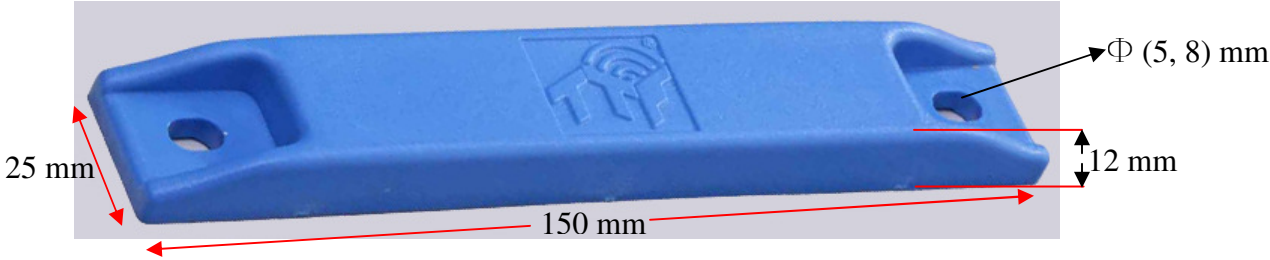
### FEATURES

- 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 (up to 8-10m, reader dependant).

### APPLICATIONS

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

<b>Chip Type:</b>	<b>Alien Higgs 3 EPC Class 1 Gen 2</b>	
	EPC 96 bit extendable up to 480 bits	
	User Memory 512 bit	
	Data retention of 10 years	
	Write endurance 100.000 cycles	
<b>Mechanical:</b>	Dimension	150 x 25 x 12 mm
	Material	ABS
	Colour	Blue
	Weight	26 gm.
<b>Electrical:</b>	Operating Frequency	865-869MHz, (902-928MHz also available on request)
	Operating mode	Passive (battery-less transponder)
<b>Ingress Protection:</b>	IP67	
<b>Thermal:</b>	Storage Temp.	-25°C to +70°C
	Operating Temp.	-25°C to +70°C
	Transport Conditions	-40°C to +70°C
<b>Part Number:</b>	31V01	
<b>Options:</b>	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		



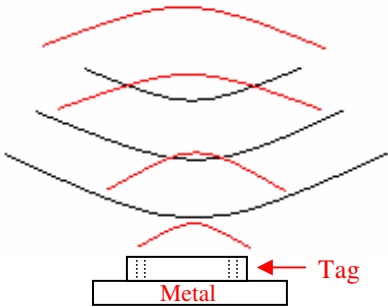
Tag Placement

- ✚ M-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



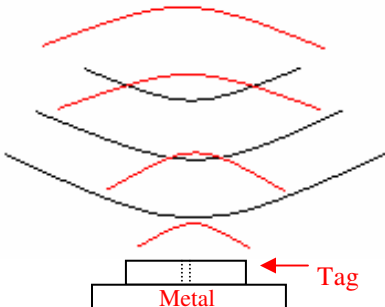
Antenna



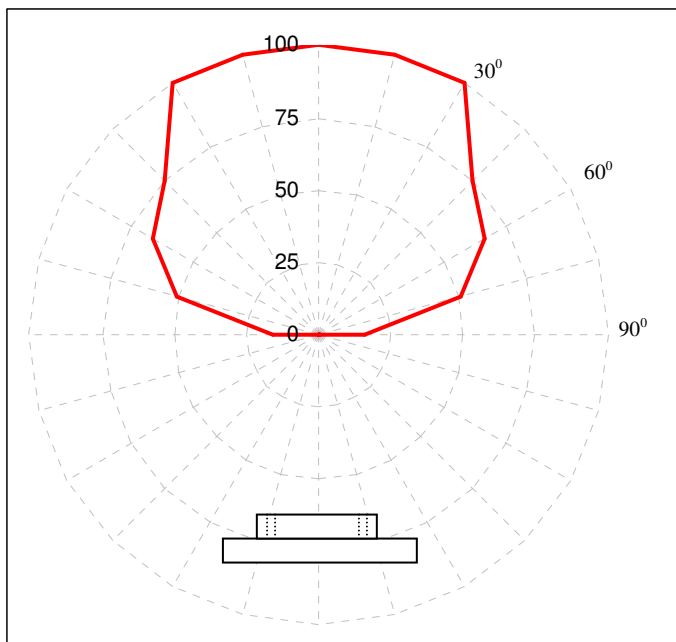
Wrong way



Antenna



- ✚ 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.
- ✚ 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.