




## M-Crown Tag (Global)

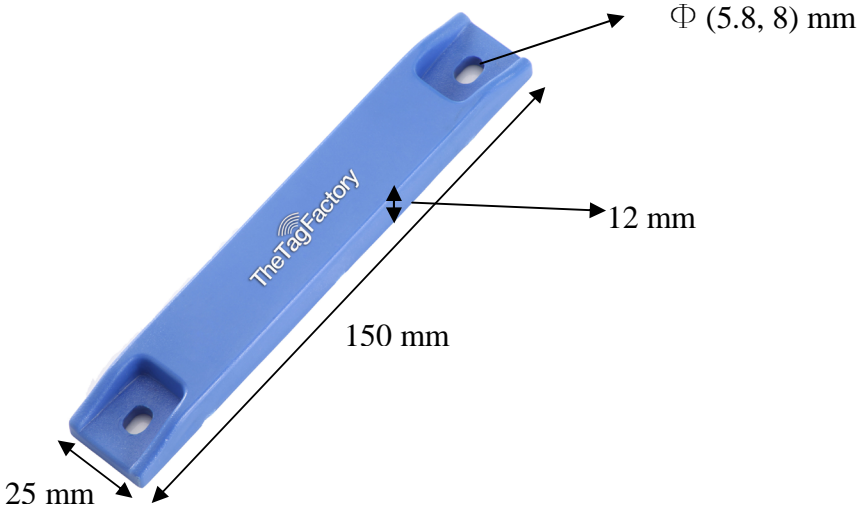
### FEATURES

- M-Crown Tag is ATEX approved and thus can be used in potentially explosive atmosphere
- The tag is frequency independent 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.

<b>Chip Type:</b>	<b>Impinj Monza 4QT EPC Class 1 Gen 2</b>	
	EPC 96 bit extendable up to 128 bits	
	User Memory 512 bit	
	Data retention of 50 years	
	Write endurance 100.000 cycles	
<b>Mechanical:</b>	Dimension	150 x 25 x 12 mm
	Material	ABS
	Colour	Blue
	Weight	25.8 g
<b>Electrical:</b>	Operating Frequency	860-960 MHz
	Operating mode	Passive (battery-less transponder)
<b>Ingress Protection:</b>	IP67	
<b>Thermal:</b>	Storage Temp.	-20°C to +70°C
	Operating Temp.	-20°C to +70°C
<b>Part Number:</b>	315V4-Ex	
<b>Atex Marking details:</b>	 II 1 G, Ex ia IIC T5 Ga	
<b>Options:</b>	Available with:	
	Other IC type on request e.g. Monza 4D, Monza 4E	
	Other plastic material and colours e.g. PC/ABS	
	Adhesive backing for easy mounting	



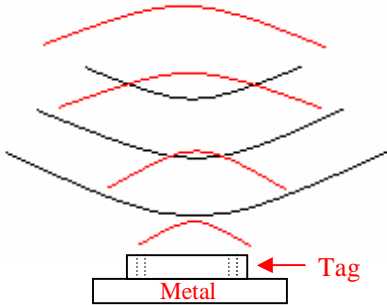
Tag Placement

- ✦ 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



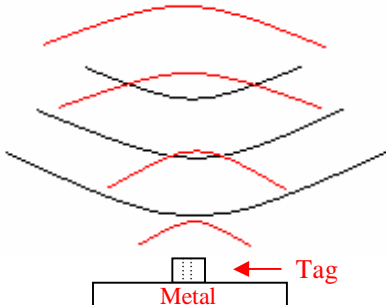
Antenna



Wrong way

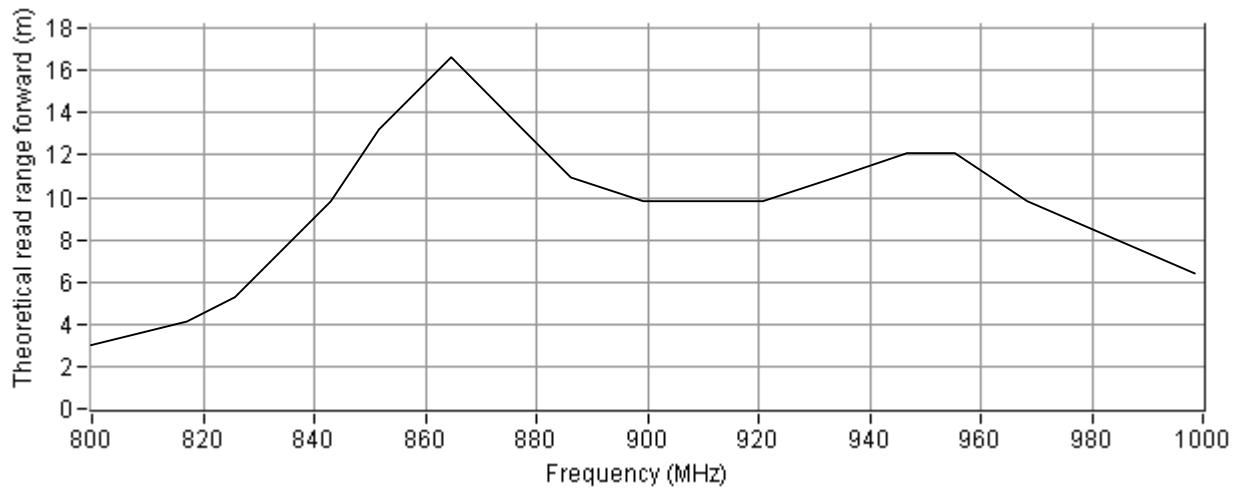


Antenna



- ✦ 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.

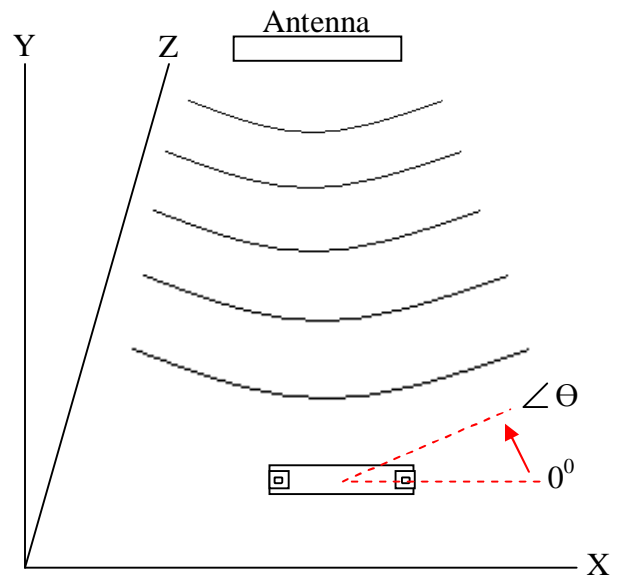
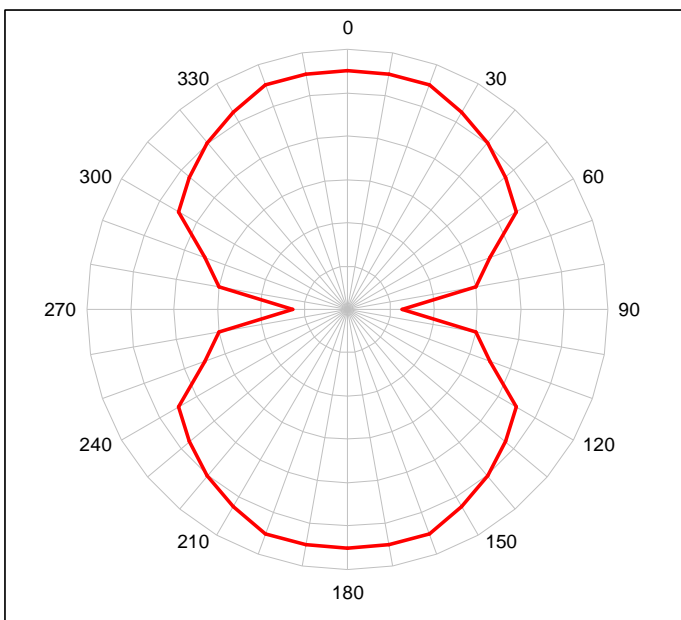
## Frequency v/s Read Range Graph



## Angular Sensitivity

### M-Crown Tag Angular Sensitivity

(Relative Read Range vs. Orientation)



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