



M-Crown Tag

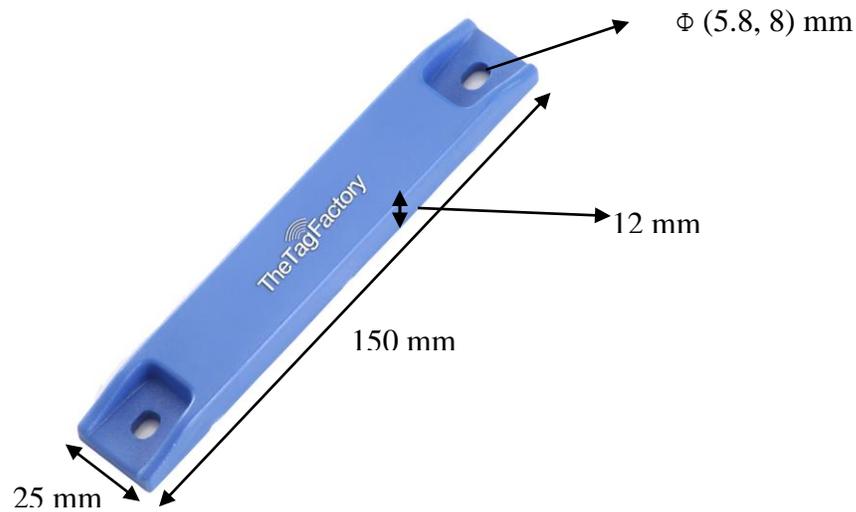
FEATURES

- M-Crown tag 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

- M-Crown can be effectively used in asset tracking, Warehouse management, Containers and Railway Coaches identification
- Factory automation, Automotive & Security purpose.

Chip Type:	Impinj Monza 4QT EPC Class 1 Gen 2	
	EPC Memory: 96 bits extendable up to 128 bits	
	User Memory: 512 bits	
	Data Retention: 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	865-868MHz, (902-928MHz also available on request)
	Operating mode	Passive (battery-less transponder)
Ingress Protection:	IP67	
Thermal:	Storage Temp.	-25°C to +85°C
	Operating Temp.	-25°C to +85°C
Part Number:	315V4	
Options:	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	



Note: Tolerance applicable are **Length:** $\pm 1\text{mm}$, **Width:** $\pm 0.5\text{mm}$ and **Thickness:** $\pm 0.3\text{mm}$

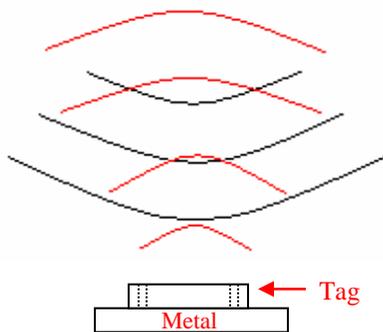
Tag Placement

- 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



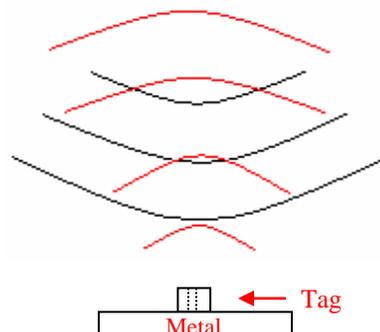
Antenna



Wrong way

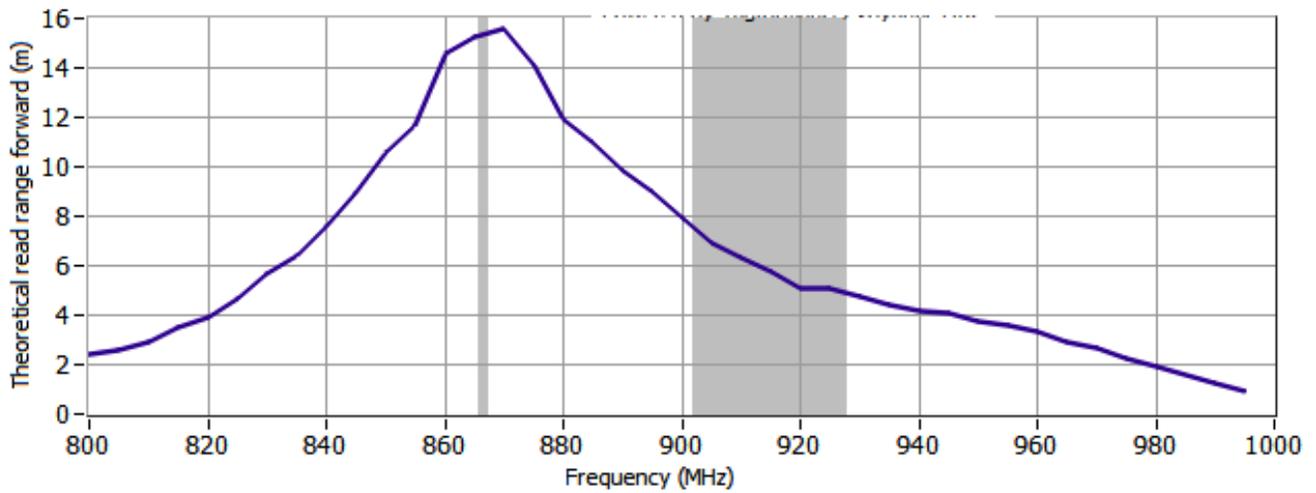


Antenna



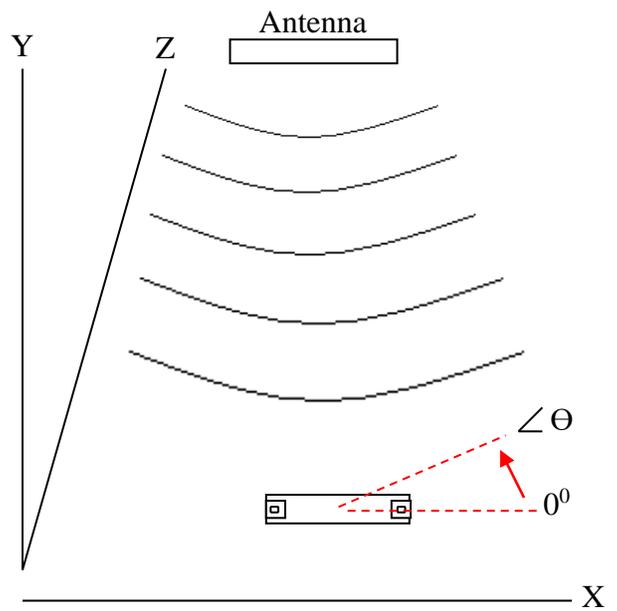
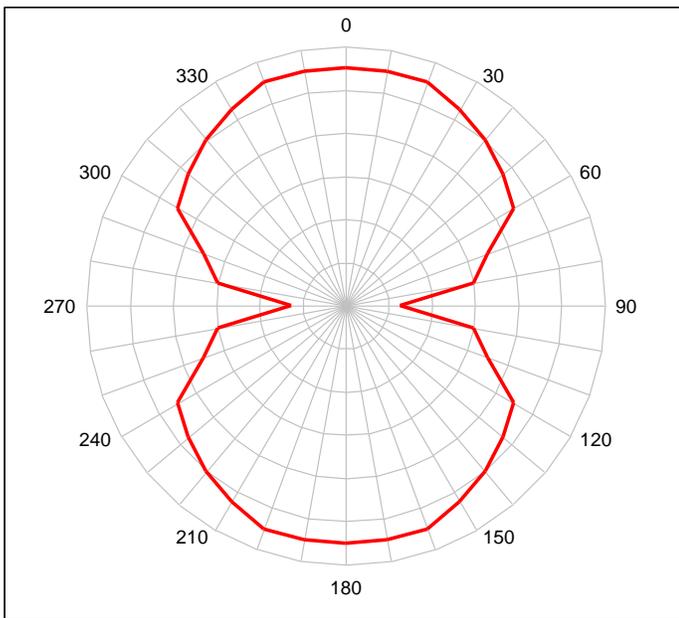
- Tag can be attached either through screw M5/ Rivets / Adhesive tape.
- The distance between hole to hole is 126.5mm. Elliptical shape of hole provides flexible attachment of tag.

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