



M-Crown Tag

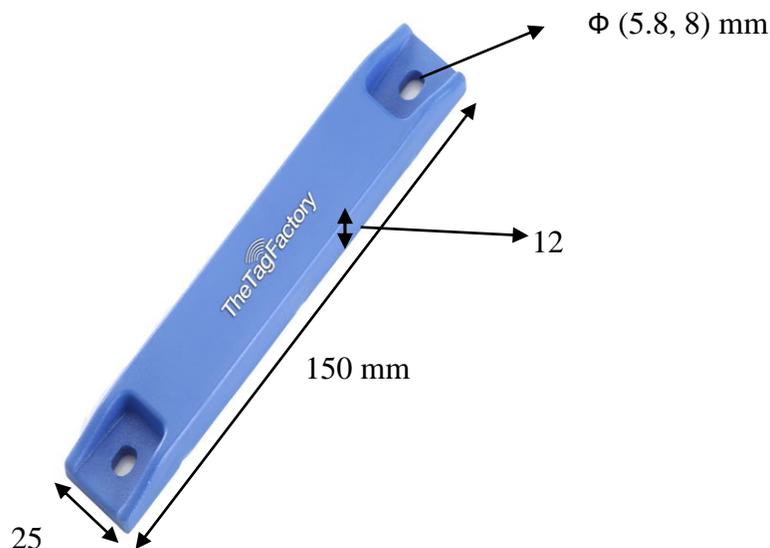
FEATURES

- M-Crown Tag is ATEX approved and thus can be used in potentially explosive atmosphere.
- The tag operates effectively with a read range of over 15m when attached to metal substrates.
- Rugged construction for high durability.
- It can be attached by screws with the help of two holes.
- It can also be provided with Adhesive tape for easy attachment.

APPLICATIONS

- 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 96 bit extendable up to 128 bits	
	User Memory 512 bit	
	Data retention of 50 years	
	Write Endurance of 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.	-20°C to +70°C
	Operating Temp.	-20°C to +70°C
Part Number:	315V1-Ex04	
Atex Marking details:	 II 1 G, Ex ia IIC T5 Ga	
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: ± 1 mm, Width: ± 0.5 mm and Thickness: ± 0.3 mm

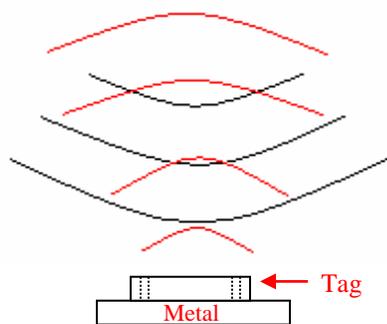
Tag Placement

- ✚ 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 the figure below:

Correct way



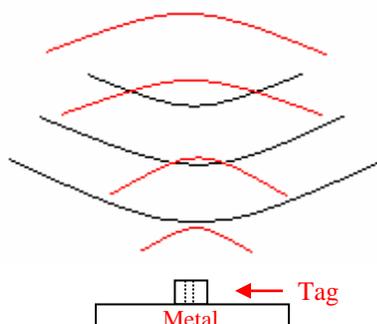
Antenna



Wrong way



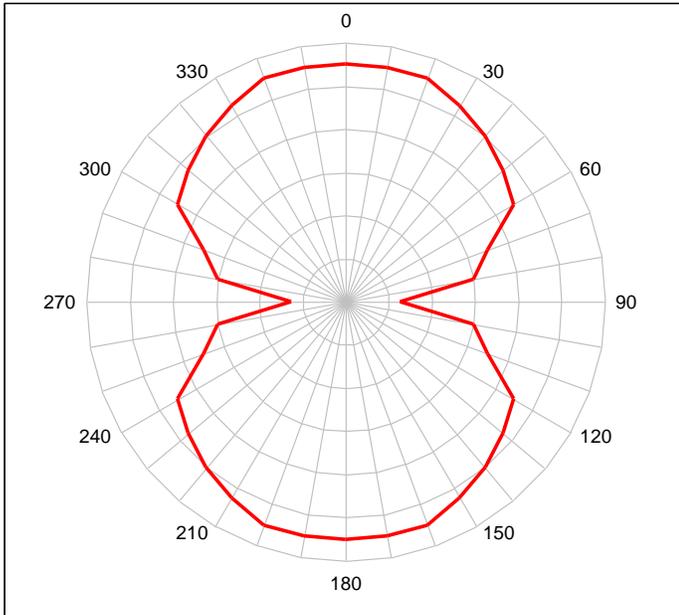
Antenna



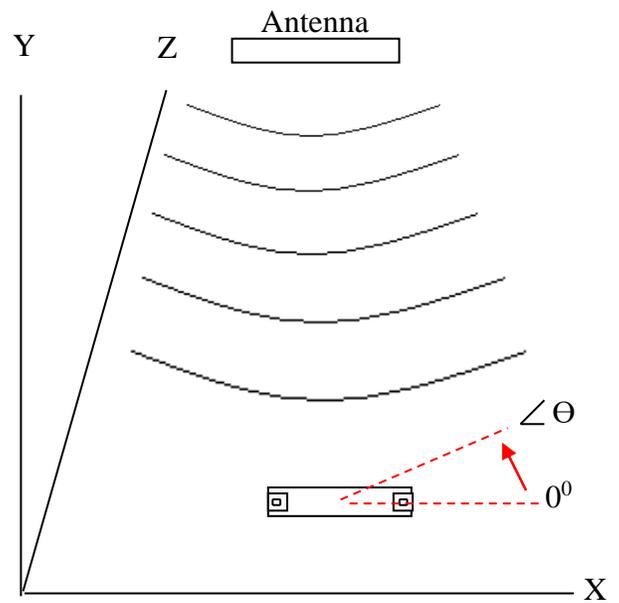
- ✚ Tag can be attached either through screw M5/ Rivets / Adhesive tape.
- ✚ The distance between hole to hole is 126.5mm. Elliptical shape of hole provides flexible attachment of tag.

M-Crown Tag Angular Sensitivity

(Relative Read Range vs. Orientation)



Read range (in percent) at various angle.



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