



M-Crown Tag (Global)

FEATURES

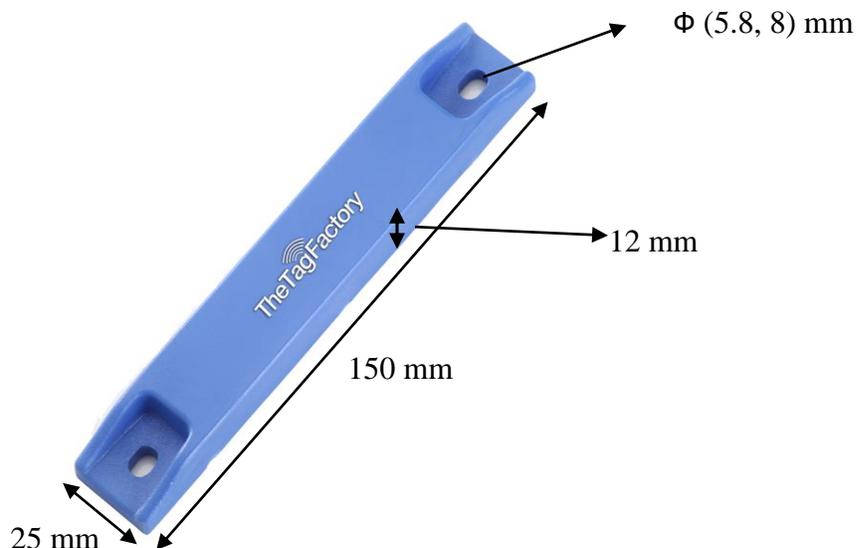
- M-Crown Tag is ATEX approved and thus can be used in potentially explosive atmosphere
- The tag is frequency independent and operates effectively with read range of over 15m when attached to metal.
- Rugged construction for high durability.
- Can be attached by screws with the help of two holes.
- 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, Warehouse 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 9, GS1 Class 1 Gen 2	
	EPC Memory: Up to 496-EPC Bits (nominally 96 bits)	
	User Memory: Up to 688 Bits	
	Data Retention: 50 Years	
	Write Endurance: 200,000 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.	-20°C to +70°C
	Operating Temp.	-20°C to +70°C
Part Number:	315V1-Ex02	
Atex Marking details:	 II 1 G, Ex ia IIC T5 Ga	
Options:	Available with:	
	Other IC type on request	
	Other plastic material and colours e.g. PC/ABS	
Adhesive backing for easy mounting		

Dimension



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

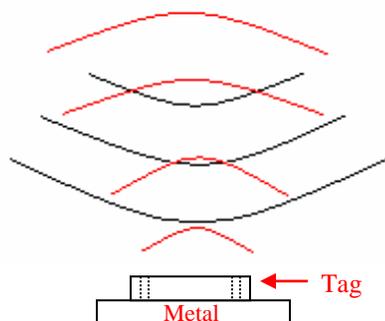
Tag Placement

- ✚ 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



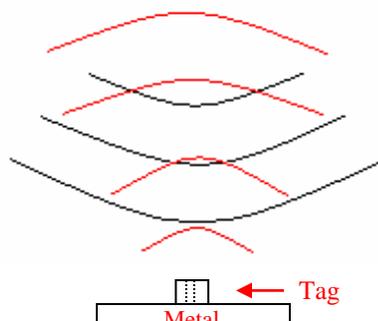
Antenna



Wrong way



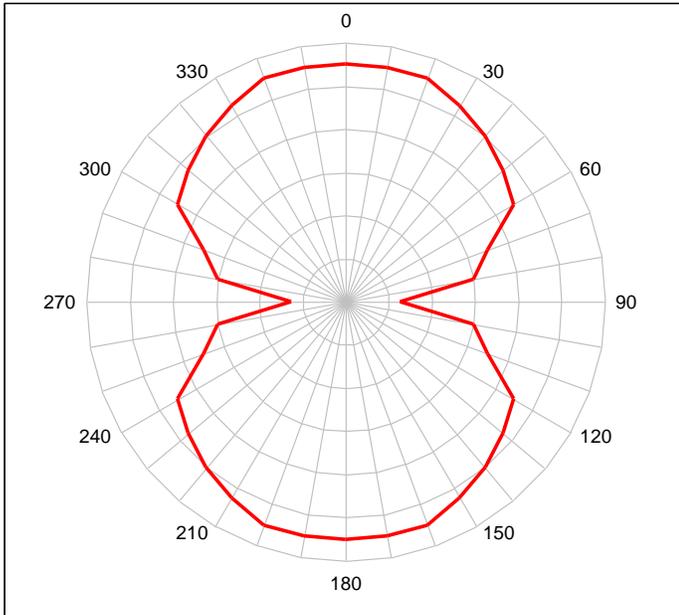
Antenna



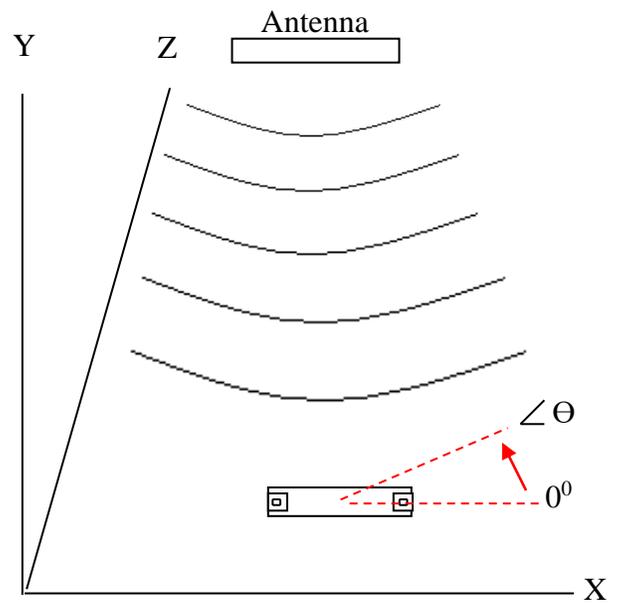
- ✚ Tag can be attached either through screw M5/ Rivets / Adhesive tape.
- ✚ The distance between hole to hole is 126.5mm. Elliptical shape of hole provides flexible attachment of tag.

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