TheTagFactory
ENGINEERING RFID SOLUTIONS

Data Sheet

M-Crown Tag

FEATURES

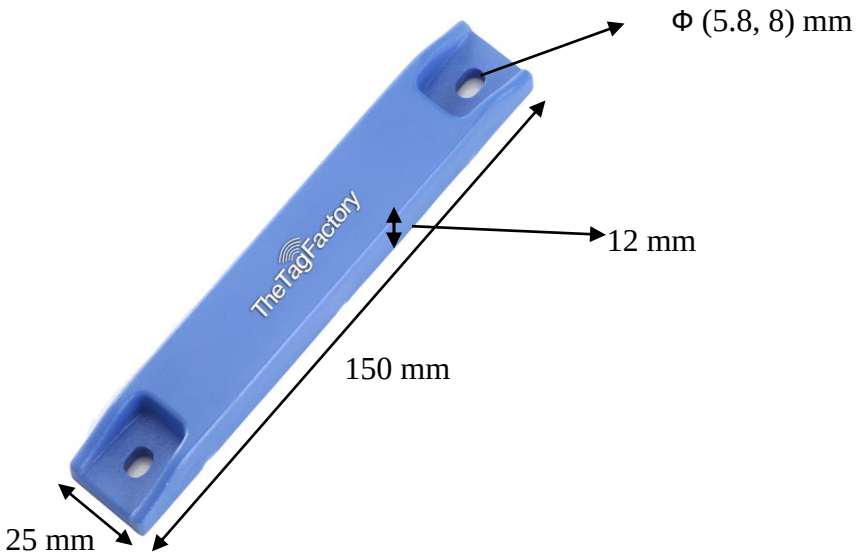
- M-Crown Tag is ATEX approved and thus can be used in potentially explosive atmosphere.
- The tag operates effectively with a read range of over 15m when attached to metal substrates.
- Rugged construction for high durability.
- It can be attached by screws with the help of two holes.
- It can also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

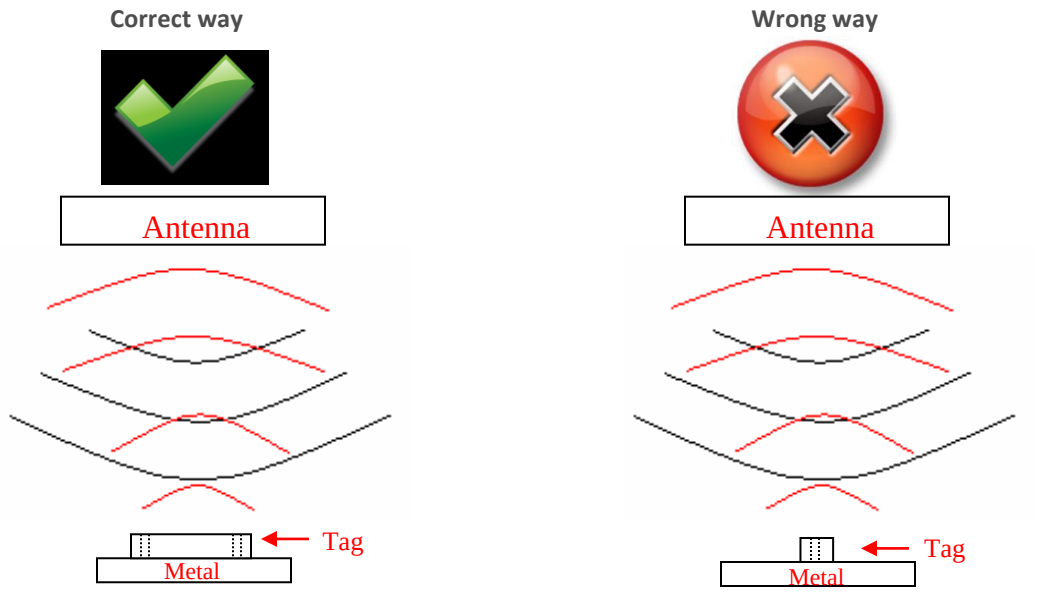
Dimension



Note: Tolerance applicable is Length: ±1mm, Width: ±0.5mm and Thickness: ±0.3mm

Tag Placement

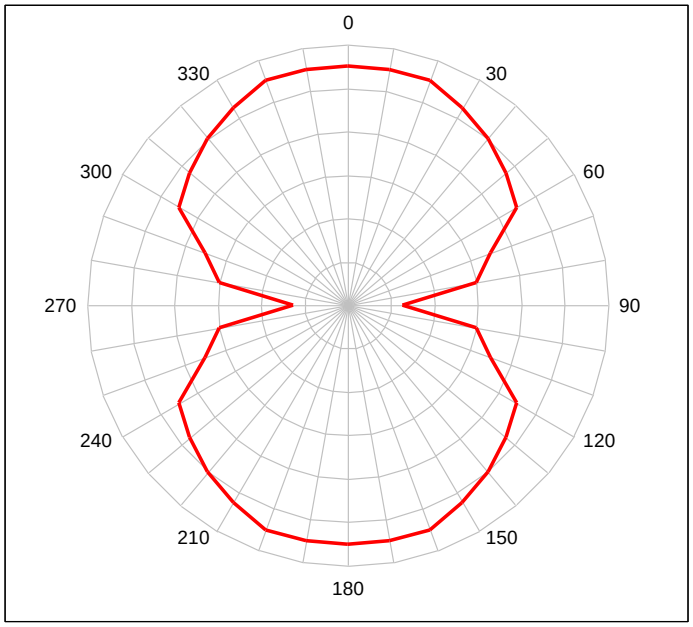
- M-Crown is polarized perpendicular to TTF logo.
- Place the tag in such a way that most of its bottom area comes in direct contact with metal.
- Ensure that there is no hindrance between the tag and the reader antenna.
- Reader antenna should be parallel to the tag length as shown in below figure:



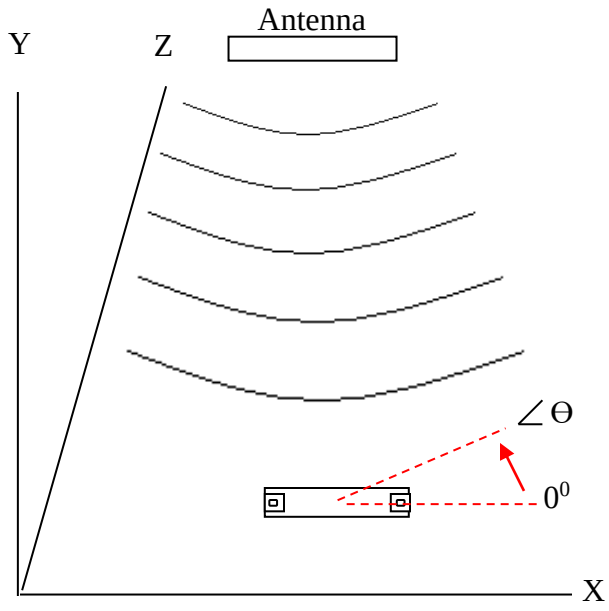
- Tag can be attached either through screw M5/ Rivets / Adhesive tape.
- The distance between hole to hole is 126.5mm. Elliptical shape of hole provides flexible attachment of tag.

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