

Data Sheet




M-Crown Tag (Global)

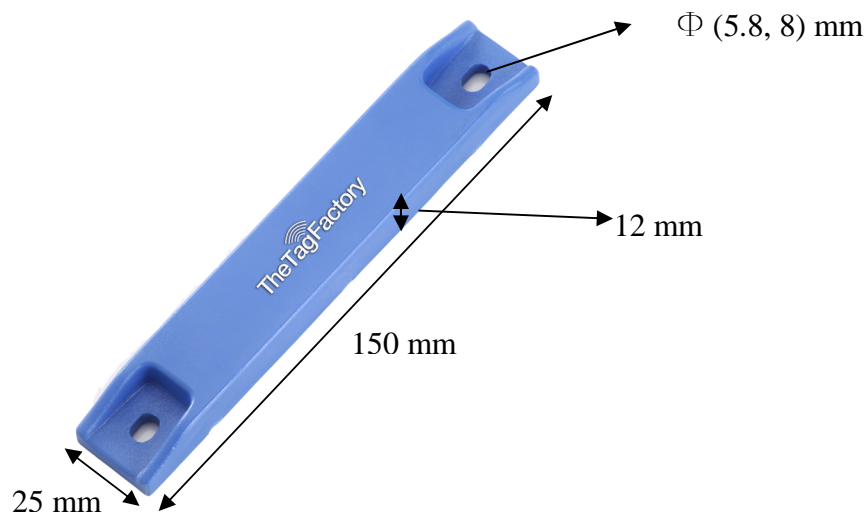
FEATURES

- 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.

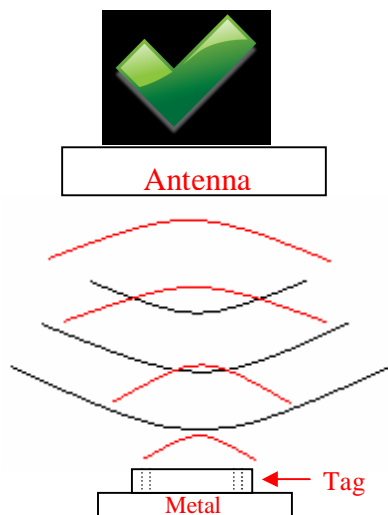
Chip Type:	Alien Higgs 3 EPC Class 1 Gen 2	
	EPC	96 bit extendable up to 480 bits
	User Memory	512 bit
	Data retention	of 50 years
	Write endurance	100.000 cycles
Mechanical:	Dimension	150 x 25 x 12 mm
	Material	ABS
	Colour	Blue
	Weight	25.8 g
Electrical:	Operating Frequency	860-960 MHz
	Operating mode	Passive (battery-less transponder)
Ingress Protection:	IP67	
Thermal:	Storage Temp.	-20°C to +70°C
	Operating Temp.	-20°C to +70°C
Part Number:	315V2-Ex	
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	



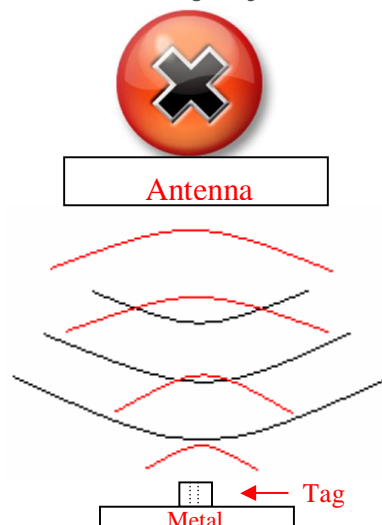
Tag Placement

- ✚ 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

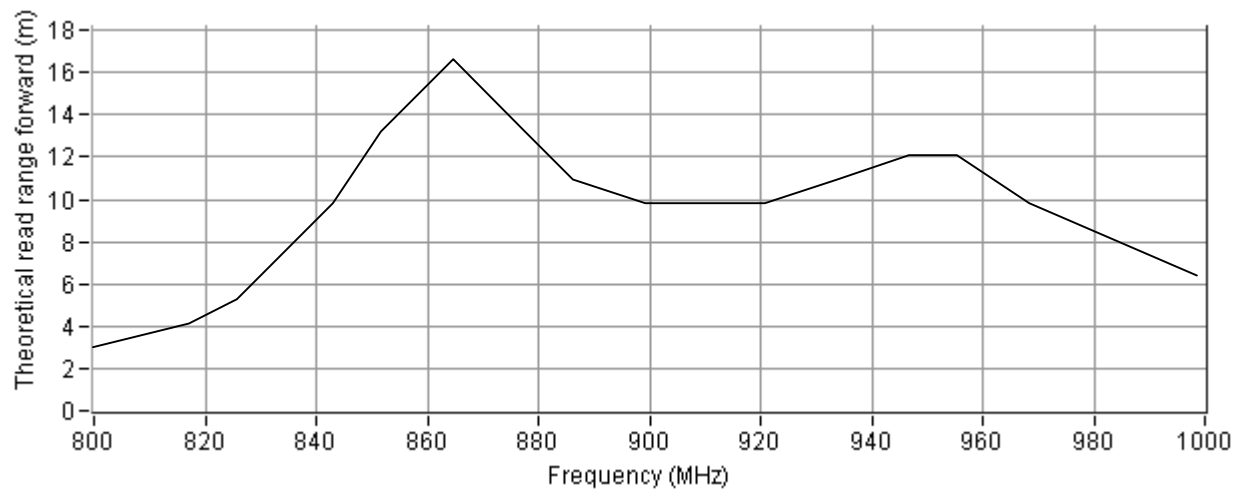


Wrong way



- ✚ 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.

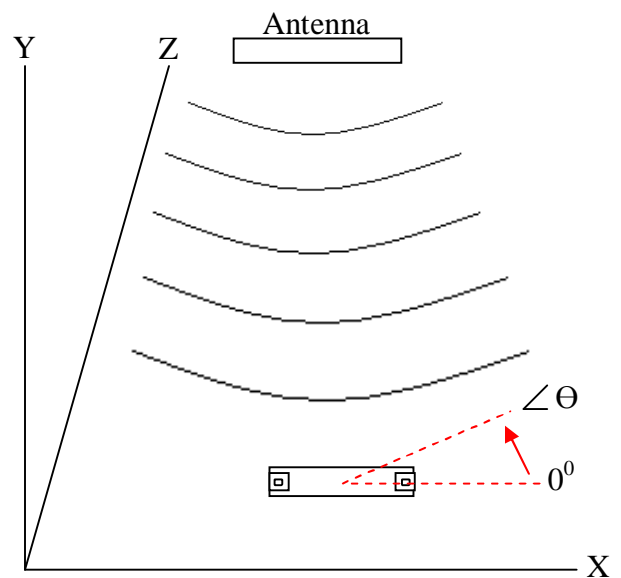
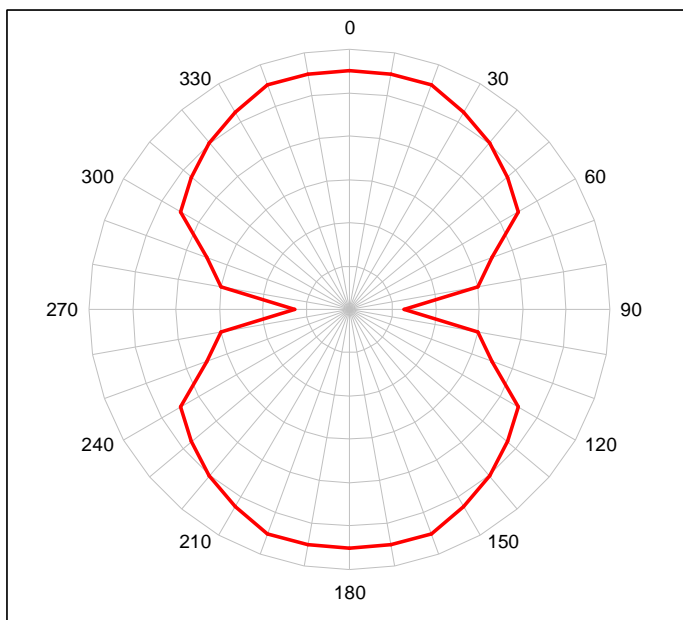
Frequency v/s Read Range Graph



Angular Sensitivity

M-Crown Tag Angular Sensitivity

(Relative Read Range vs. Orientation)



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

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