The Tag Factory
MANUFACTURER OF RFID TAGS

Data Sheet

M-Crown Tag (Global)

FEATURES

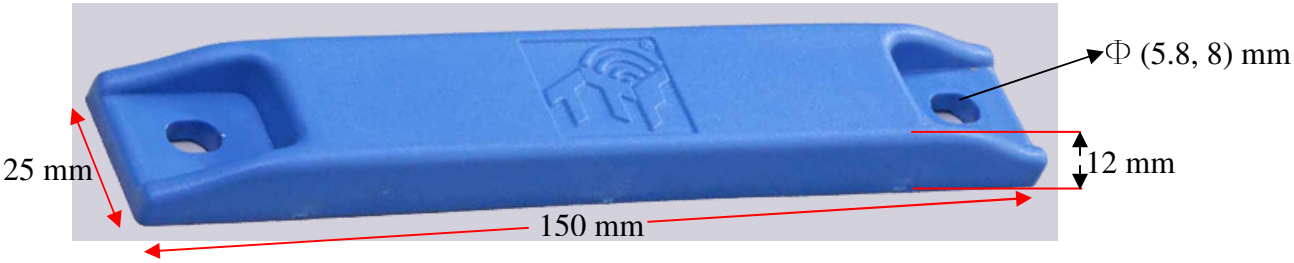
- M-Crown is a frequency independent tag and operates effectively with read range of over 15m when attached to metal.
- Rugged construction for high durability.
- Can be attached by screws with the help of two holes.
- Can also be provided with Adhesive tape for easy attachment.

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.

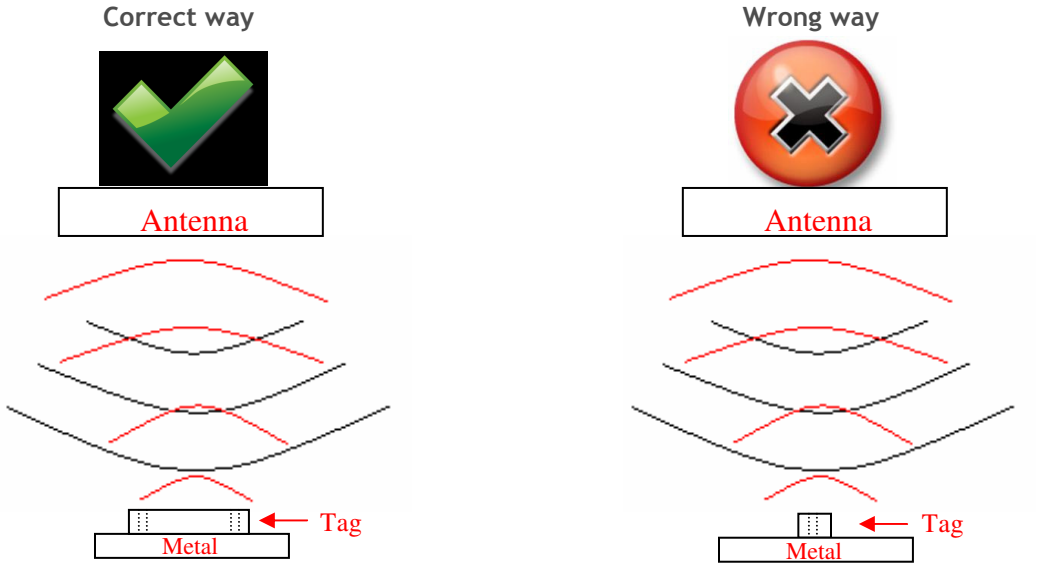
Chip Type:	**Impinj Monza 4QT EPC Class 1 Gen 2**	
	EPC 96 bit extendable up to 128 bits	
	User Memory 512 bit	
	Data retention of 50 years	
	Write endurance 100.000 cycles	
Mechanical:	Dimension	150 x 25 x 12 mm
	Material	ABS
	Colour	Blue
	Weight	34 g
Electrical:	Operating Frequency	860-960 MHz
	Operating mode	Passive (battery-less transponder)
Ingress Protection:	IP67	
Thermal:	Storage Temp.	-20°C to +85°C
	Operating Temp.	-20°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	

Dimension



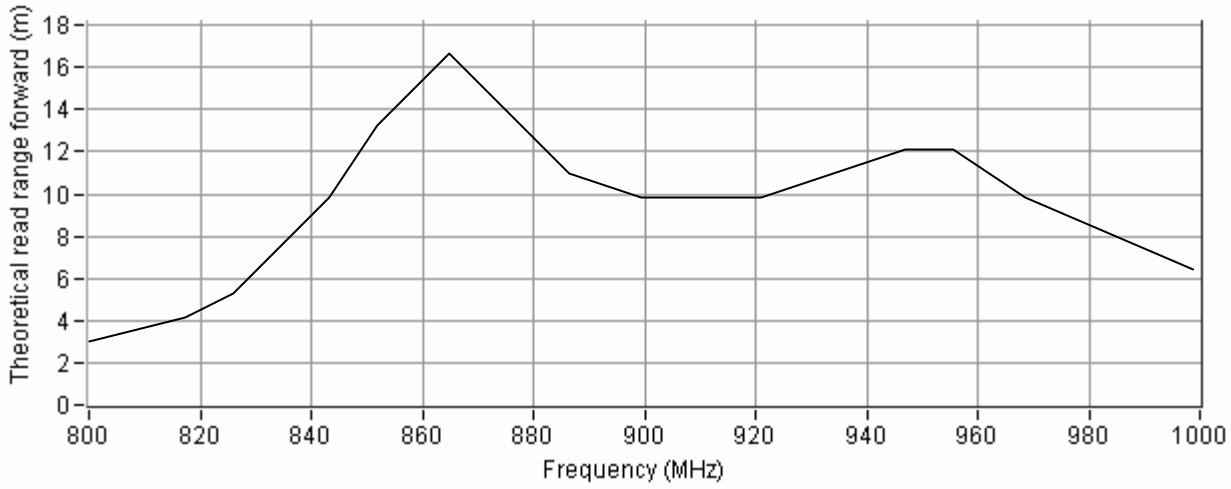
Tag Placement

- 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.

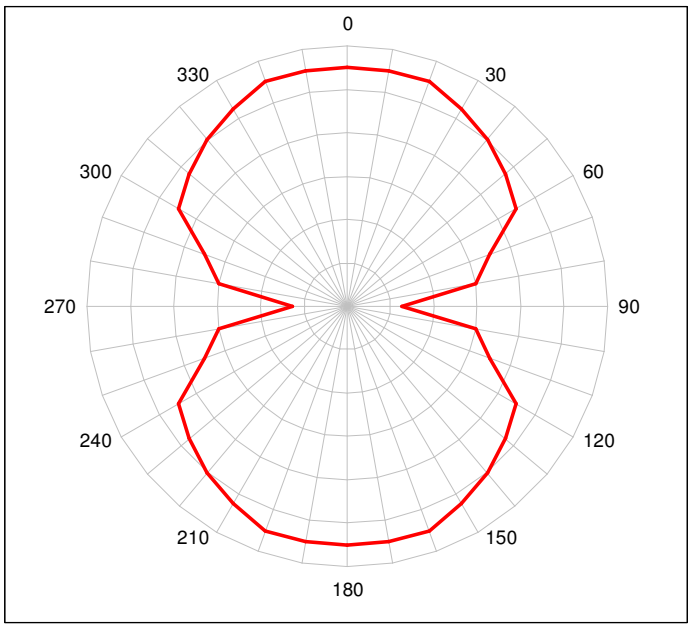
Frequency v/s Read Range Graph

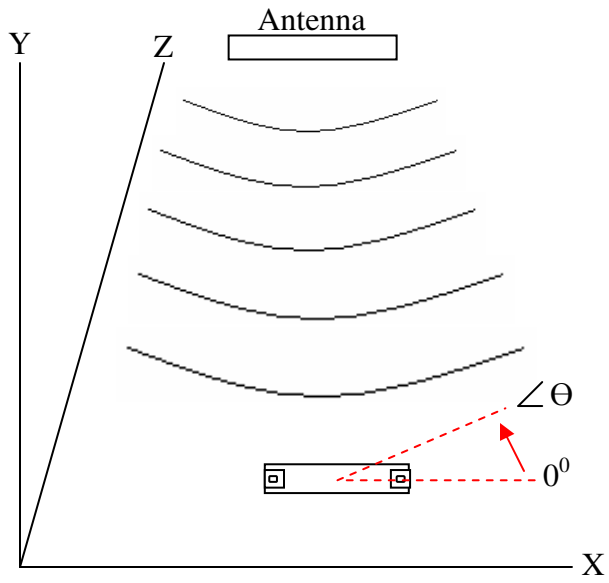


Angular Sensitivity

M-Crown Tag Angular Sensitivity

(Relative Read Range vs. Orientation)





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