TheTagFactory
ENGINEERING RFID SOLUTIONS

Data Sheet

M-Tudor (Max) Tag

FEATURES

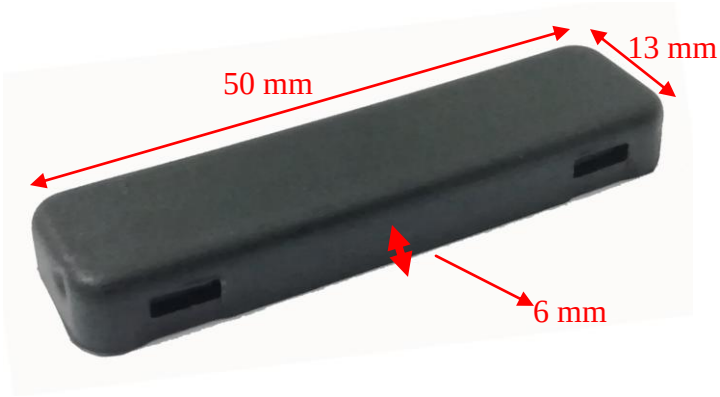
- M-Tudor (Max) Tag is very small in size & has very good read range, especially when attached to metal.
- Can be used with cable ties through its mounting hole.
- Flexible Read/Write Range (reader dependant).

APPLICATIONS

- Used in IT asset tracking applications such as backup tapes, servers, hard drives and media tapes without any human intervention.
- Inventory control of small tools and manufacturing equipment, servers and network routers.

Chip Type:	**Impinj Monza 4QT EPC Class 1 Gen 2**	
	EPC 128 bit	
	User Memory 512 bit	
	Data retention of 50 years	
	Write endurance 100,000 cycles	
Mechanical:	Dimension	50 x 13 x 6 mm
	Face Material	TPU
	Colour	Black
	Weight	4.6g
Electrical:	Operating Frequency	865-868MHz , ETSI Frequency
	Operating mode	Passive (battery-less transponder)
Ingress Protection:	IP68	
Thermal:	Storage Temp.	-25°C to +85°C
	Operating Temp.	-25°C to +85°C
Part Number:	663V3	
Options:	Available with:	
	Other IC type and Frequency on request.	
	Other Colour combination & material	
	Adhesive backing for easy mounting	
	Non-metallic application	

Dimension



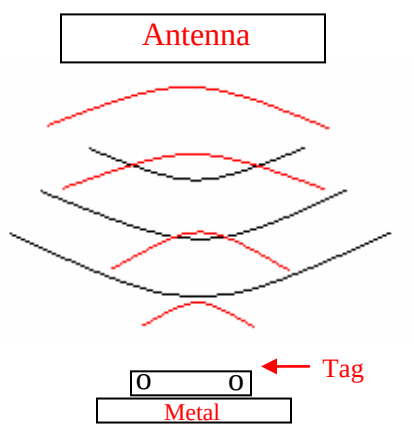
Note: Tolerance applicable are **Length :** ±1mm , **Width:** ±0.5mm and **Thickness:** ±0.3mm

Tag Placement

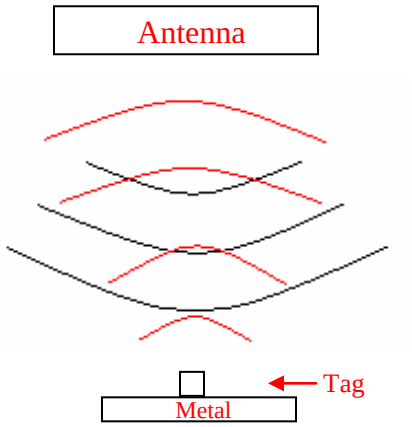
- M-Tudor (Max) is polarized perpendicular to length of tag.

- 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 length of tag as shown in below figure:

Correct way

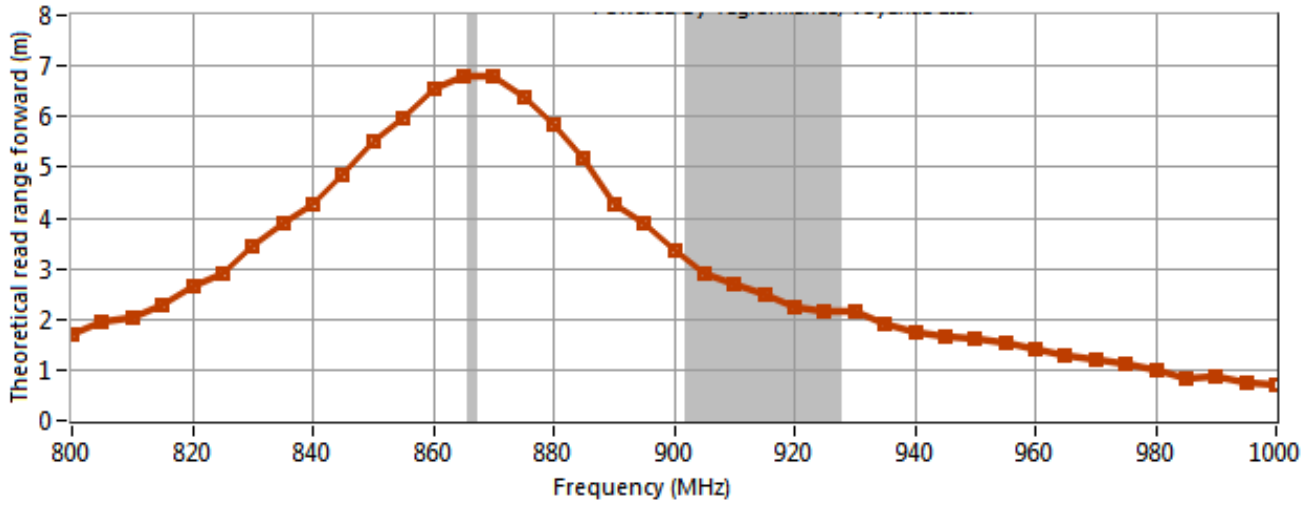


Wrong way



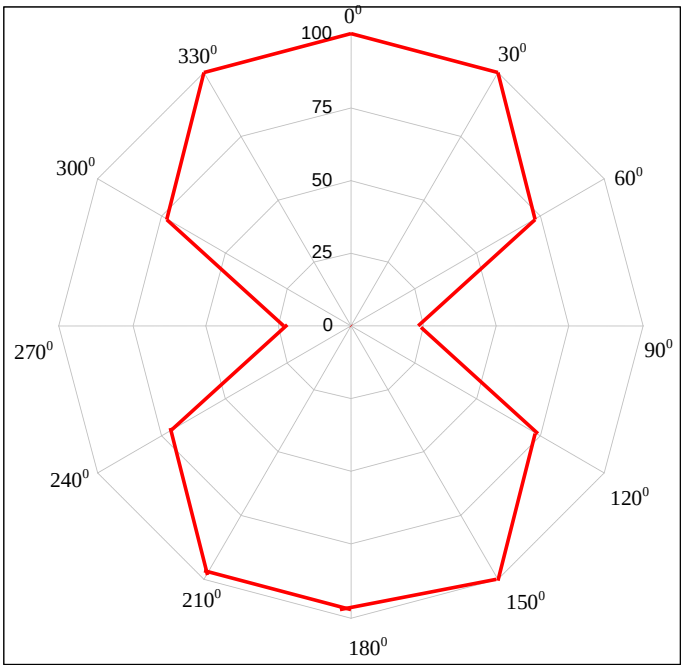
- Tag can be attached through adhesive tape, cable tie or can be hanged through nylon thread.

Frequency v/s Read Range Graph

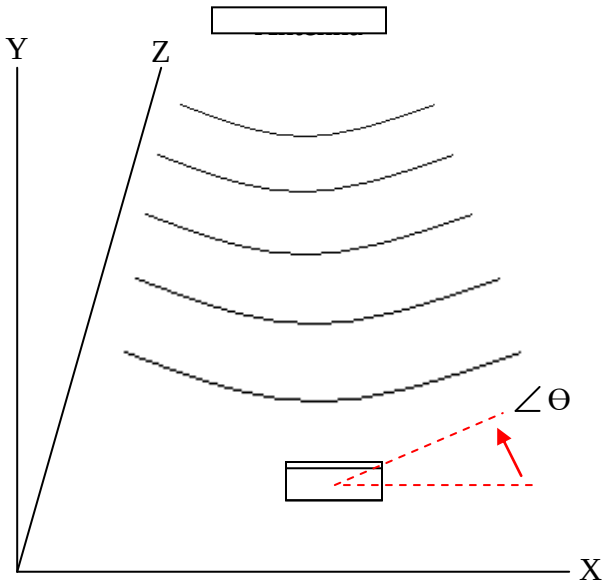


Angular Sensitivity

M-Tudor (Max) 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