TheTagFactory
ENGINEERING RFID SOLUTIONS

Data Sheet

M-Superior Tag

FEATURES

- M-Superior tag operates effectively with good 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

- Used in asset tracking, Warehouse management, Containers and Railway Coaches identification.
- Factory automation, Automotive & Security purpose.

Chip Type:	**Impinj Monza 4QT EPC Class 1 Gen 2**	
	EPC Memory: 96 bits extendable up to 128 bits	
	User Memory: 512 bits	
	Data Retention: 50 years	
	Write Endurance: 100,000 cycles	
Mechanical:	**Dimension**	150 x 58.5 x 14.4 mm
	Material	ABS
	Colour	Blue
	Weight	73 g
Electrical:	**Operating Frequency**	865-868MHz, (902-928MHz also available on request)
	Operating mode	Passive (battery-less transponder)
Ingress Protection:	IP67	
Thermal:	**Storage Temp.**	-25°C to +85°C
	Operating Temp.	-25°C to +85°C
Part Number:	344V6	
Options:	**Available with:**	
	Other IC type e.g. Monza 4D, Monza 4E	
	Other plastic material and colours e.g. PC/ABS	
	Adhesive backing for easy mounting	

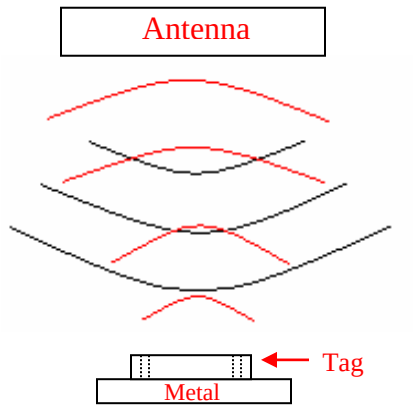
Dimension

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

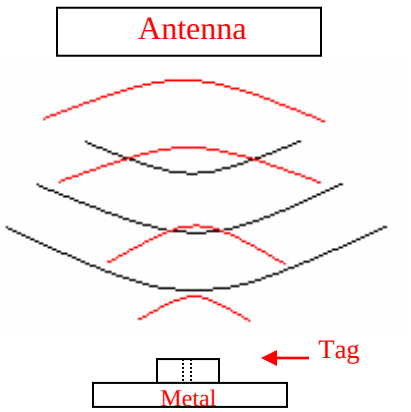
Tag Placement

- M-Superior is polarized parallel to line joining its two holes.
- 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

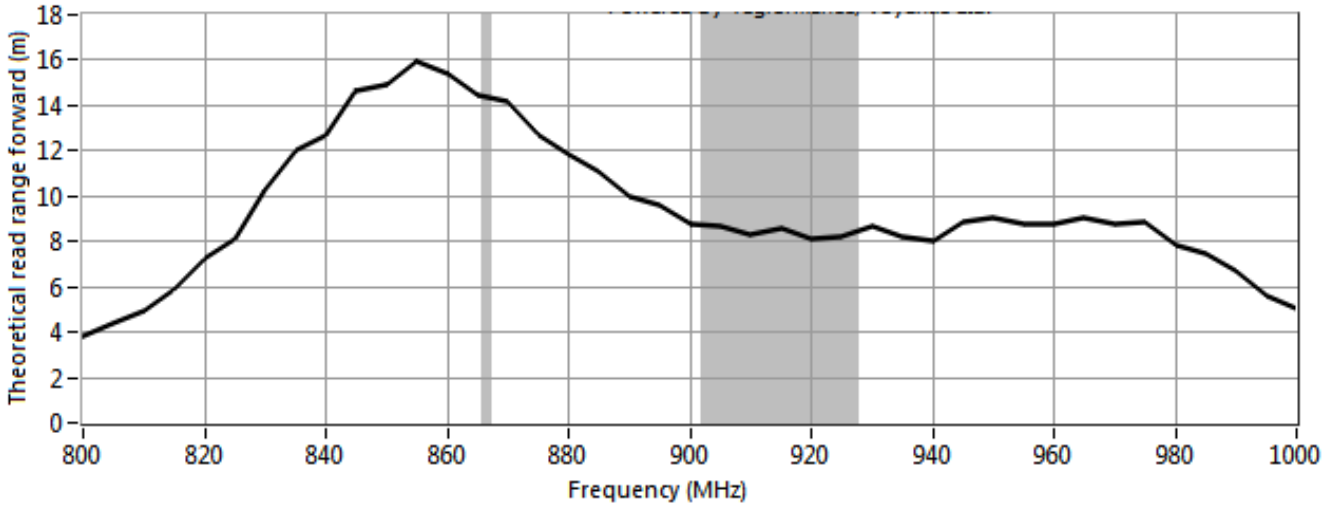


Wrong way



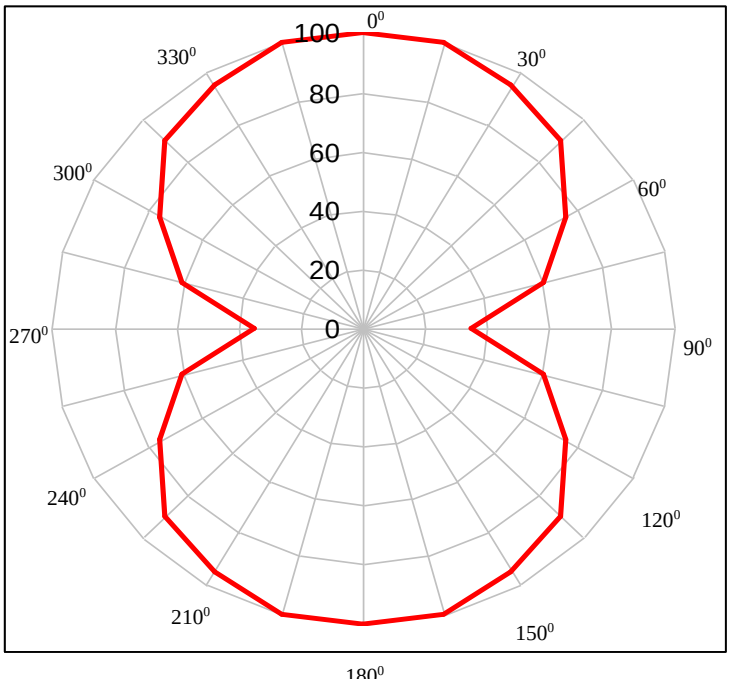
- Tag can be attached either through screw M5/ Rivets / Adhesive tape.
- Attachment through adhesive should be used only for indoor application.

Frequency v/s Read Range Graph

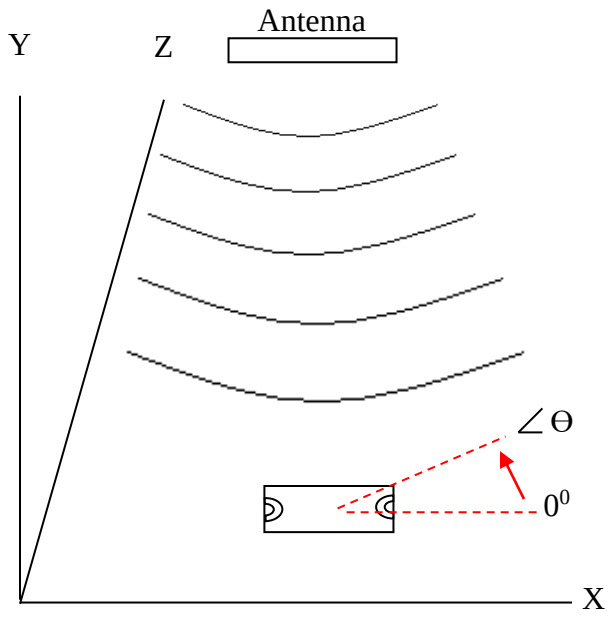


Angular Sensitivity

M-Superior 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