TheTagFactory
### ENGINEERING RFID SOLUTIONS

M-Superior Tag

FEATURES

- M-Superior Tag is ATEX approved and thus can be used in potentially explosive atmosphere.
- M-Superior 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 high read range, M-Superior 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 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.	-20°C to +70°C
	Operating Temp.	-20°C to +70°C

Part Number:	344V1-Ex04
Atex Marking details:	II I G, Ex ia IIC T5 Ga

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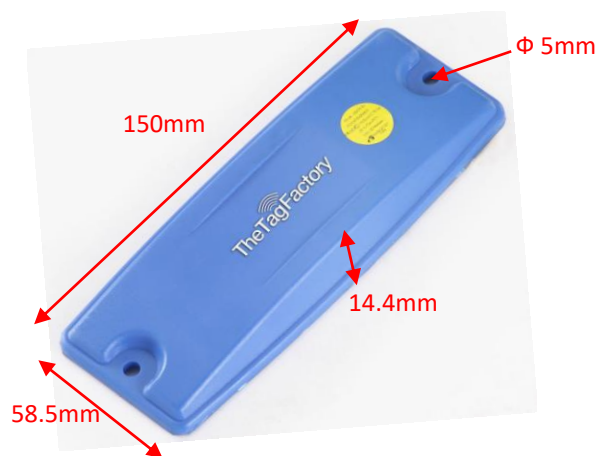
Note: Tolerance applicable are Length: ±1mm, Width: ±0.5mm and Thickness: ±0.3mm

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:
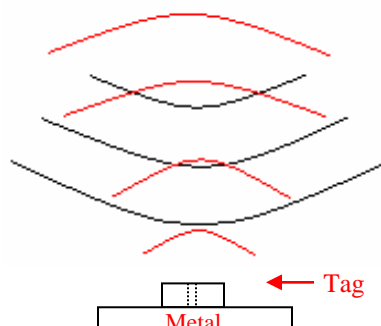

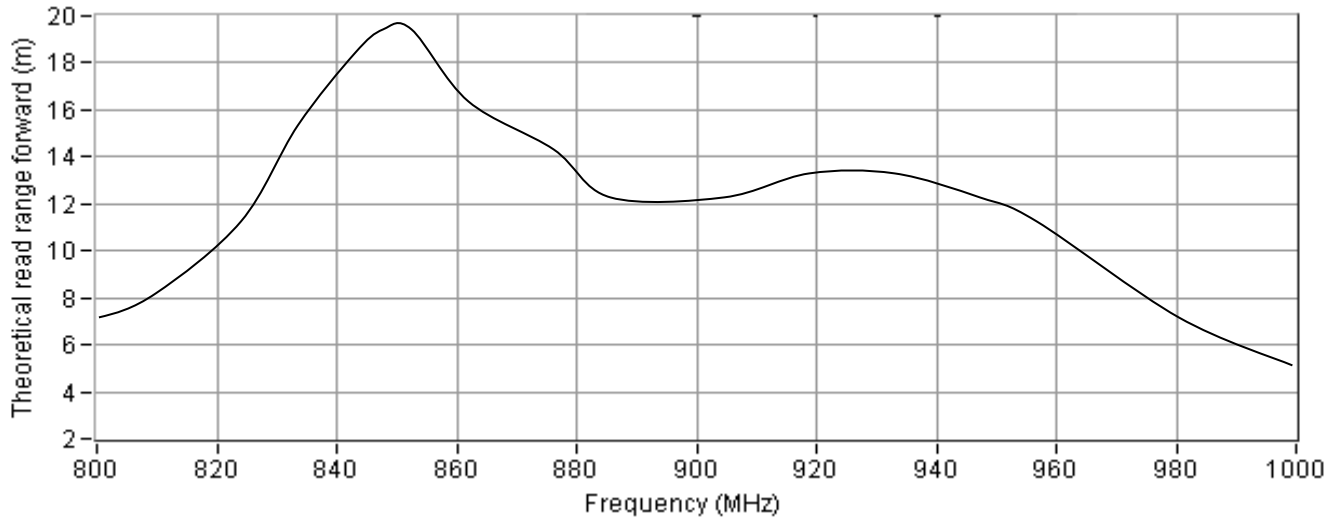**Correct way**

Antenna

Tag

Metal
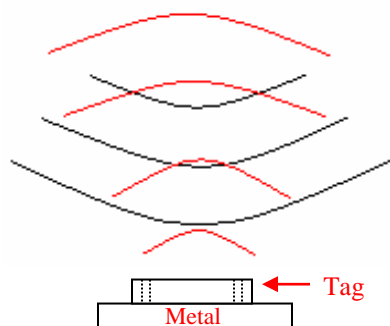
Wrong way

Antenna

Tag

Metal

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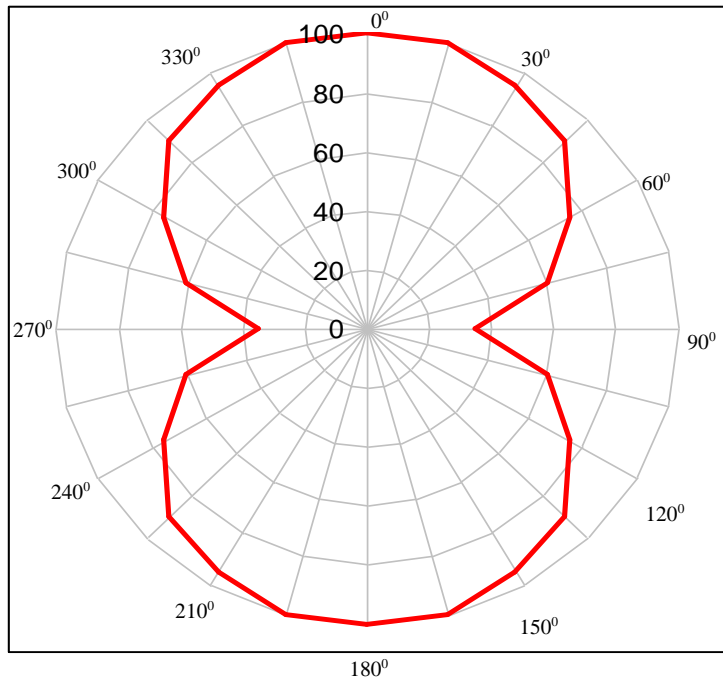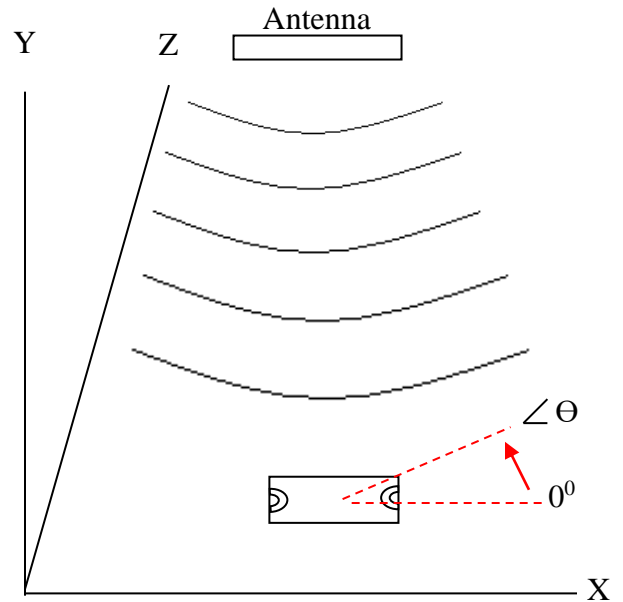- Attachment through adhesive should be used only for indoor application.

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