



M-Warrior Tag

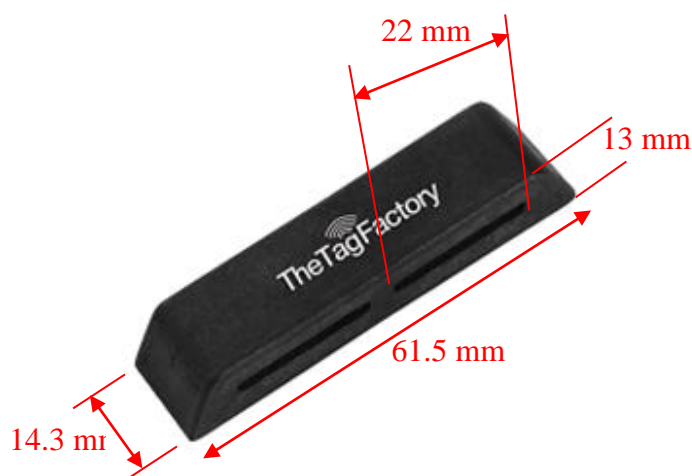
FEATURES

- M-Warrior tag operates effectively with good read range, when attached to metal.
- Rugged construction for high durability.
- Can be attached by thread or cable tie.
- 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	61.5 x 14.3 x 13 mm
	Material	ABS GF
	Colour	Black
	Weight	9.2 g
Electrical:	Operating Frequency	865-868MHz, (902-928MHz also available on request)
	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:	318V4	
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	



Note: Tolerance applicable are **Length:** $\pm 1\text{mm}$, **Width:** $\pm 0.5\text{mm}$ and **Thickness:** $\pm 0.3\text{mm}$

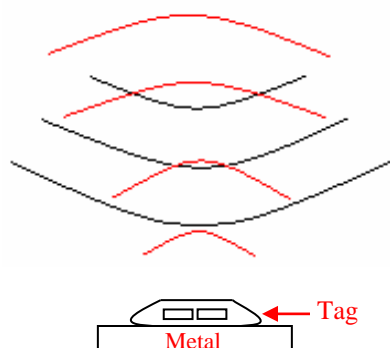
Tag Placement

- ✚ M-Warrior is polarized perpendicular to rectangular mounting holes provided.
- ✚ 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 perpendicular to the axis of tag hole as shown in below

Correct way



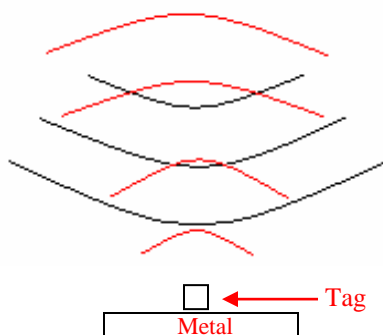
Antenna



Wrong way

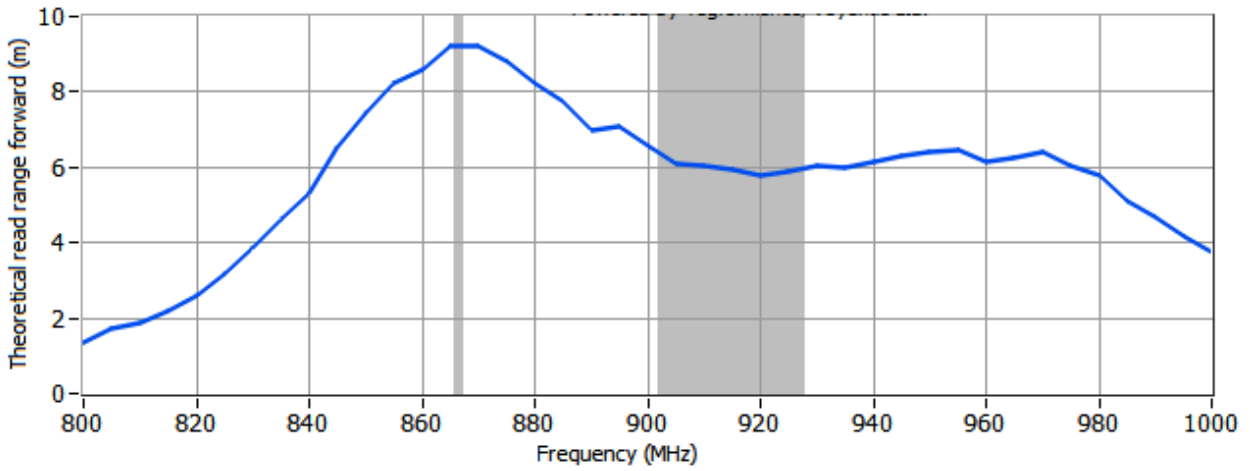


Antenna



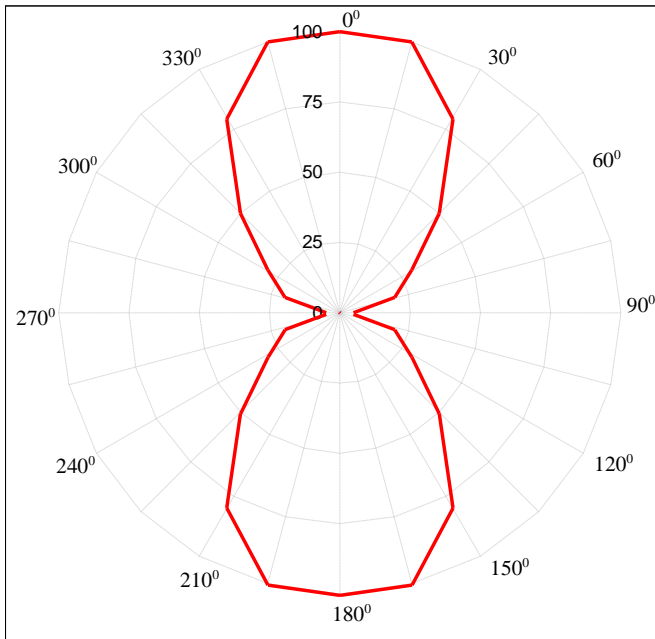
- ✚ Tag can be attached either through Cable ties or Adhesive tapes.
- ✚ Two rectangular holes each of 22 x 3 mm are provided for easy mounting

Frequency v/s Read Range Graph

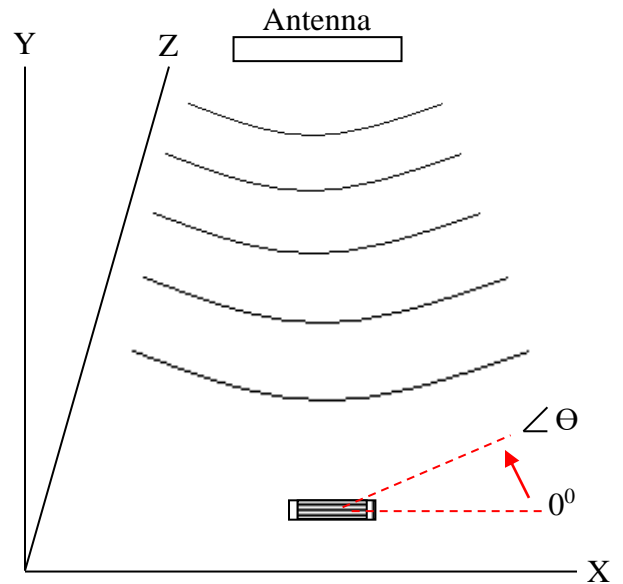


Angular Sensitivity

M-Warrior 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