



## M-Warrior Tag

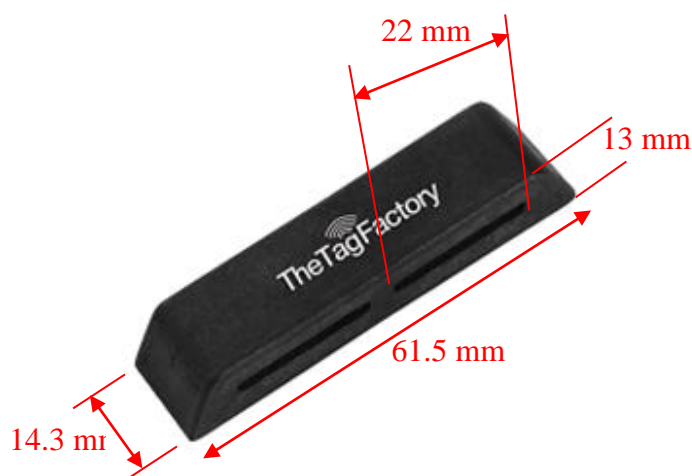
### FEATURES

- 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.

<b>Chip Type:</b>	<b>Alien Higgs 9, GS1 Class 1 Gen 2</b>	
	<b>EPC Memory:</b> Up to 496-EPC Bits (nominally 96 bits)	
	<b>User Memory:</b> Up to 688 Bits	
	<b>Data Retention:</b> 50 Years	
	<b>Write Endurance:</b> 200,000 Cycles	
<b>Mechanical:</b>	<b>Dimension</b>	61.5 x 14.3 x 13 mm
	<b>Material</b>	ABS GF
	<b>Colour</b>	Black
	<b>Weight</b>	9.2 g
<b>Electrical:</b>	<b>Operating Frequency</b>	865-868MHz, (902-928MHz also available on request)
	<b>Operating mode</b>	Passive (battery-less transponder)
<b>Ingress Protection:</b>	IP68	
<b>Thermal:</b>	<b>Storage Temp.</b>	-25°C to +85°C
	<b>Operating Temp.</b>	-25°C to +85°C
<b>Part Number:</b>	318V1	
<b>Options:</b>	<b>Available with:</b>	
	Other IC type on request	
	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:**  $\pm 0.3\text{mm}$

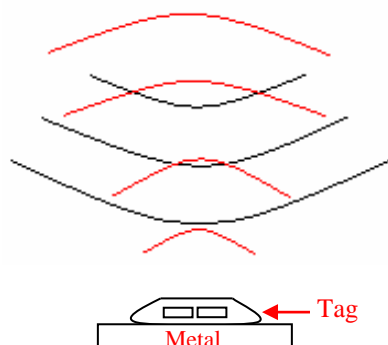
## Tag Placement

- ✚ 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



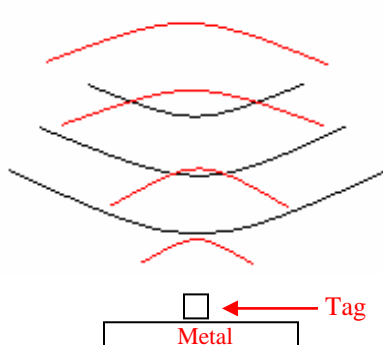
Antenna



Wrong way

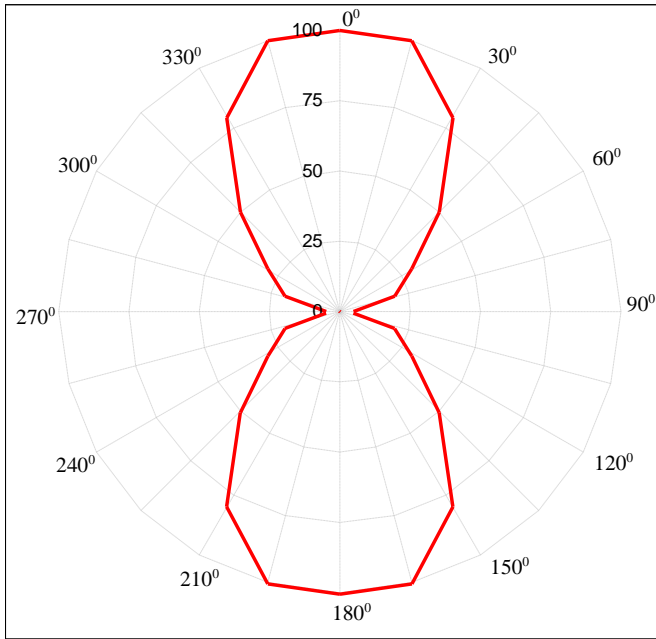


Antenna

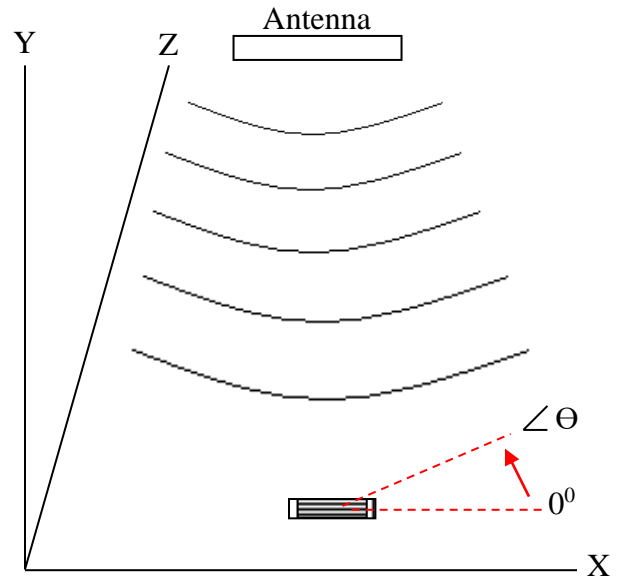


- ✚ Tag can be attached either through Cable ties or Adhesive tapes.
- ✚ Two rectangular holes each of 22 x 3 mm are provided for easy mounting

**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