The Tag Factory
MANUFACTURER OF RFID TAGS

Data Sheet

M-Warrior Tag (Global)

FEATURES

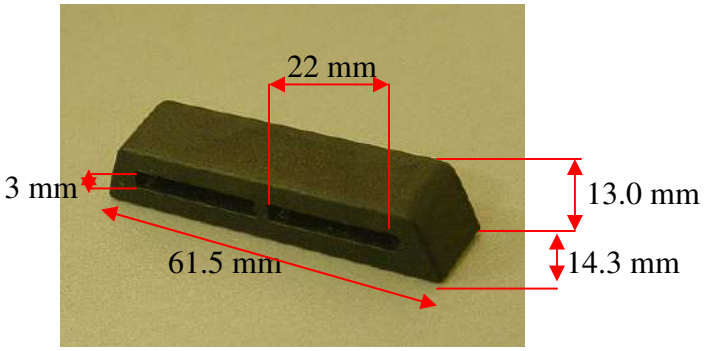
- M-Warrior is a frequency independent tag and operates effectively with read range of over 7m when attached to metal.
- Rugged construction for high durability.
- Can be attached by thread or cable tie.
- Can also be provided with Adhesive tape for easy attachment.

APPLICATIONS

- Due to global frequency tuning and high read range, M-Warrior 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.

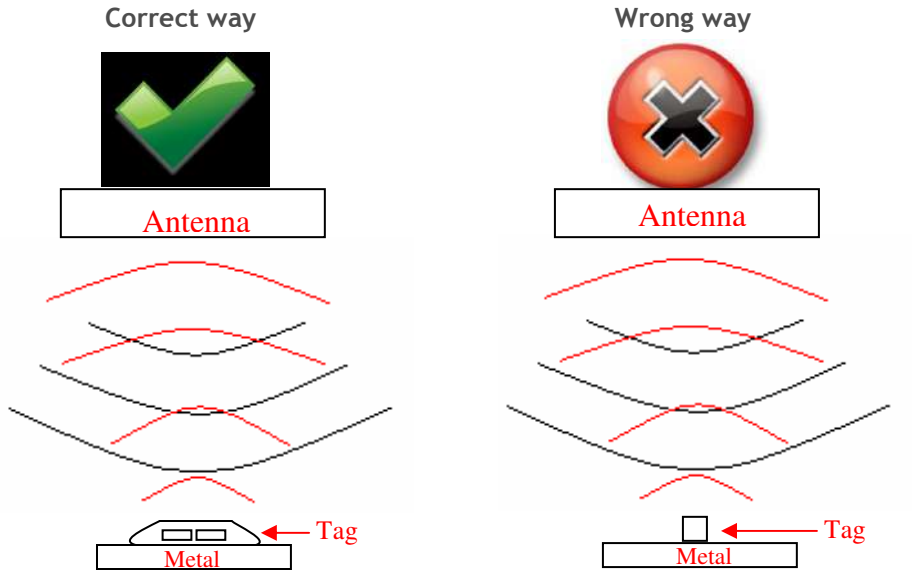
Chip Type:	**Impinj Monza-4QT EPC Class 1 Gen 2**	
	EPC 96 bit extendable up to 128 bits	
	User Memory 512 bit	
	Data retention of 50 years	
	Write endurance 100.000 cycles	
Mechanical:	Dimension	61.5 x 14.3 x 13 mm
	Material	ABS GF
	Colour	Black
	Weight	9.2 g
Electrical:	Operating Frequency	860 - 960 MHz
	Operating mode	Passive (battery-less transponder)
Ingress Protection:	IP68	
Thermal:	Storage Temp.	-20°C to +85°C
	Operating Temp.	-20°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	

Dimension



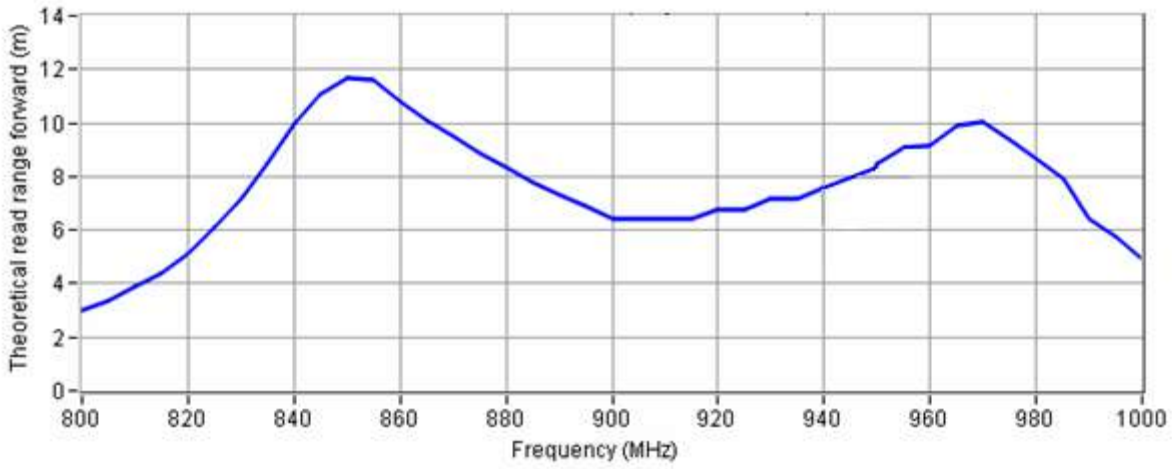
Tag Placement

- 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



- 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

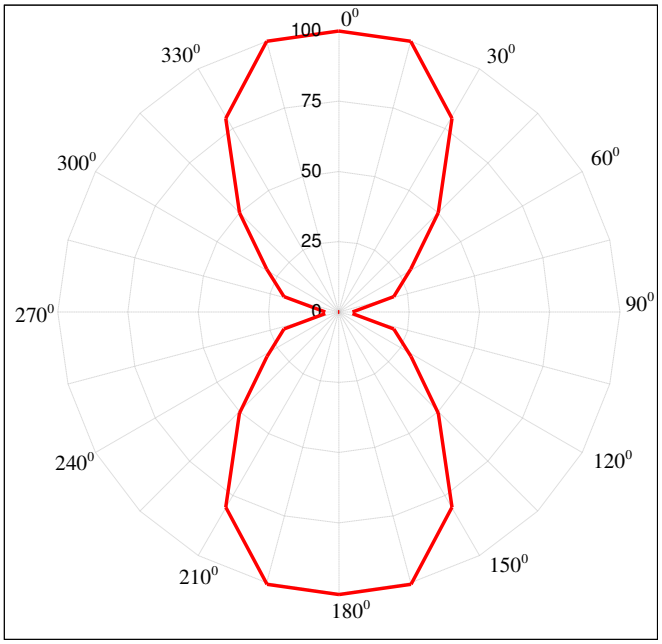
Frequency v/s Read Range Graph



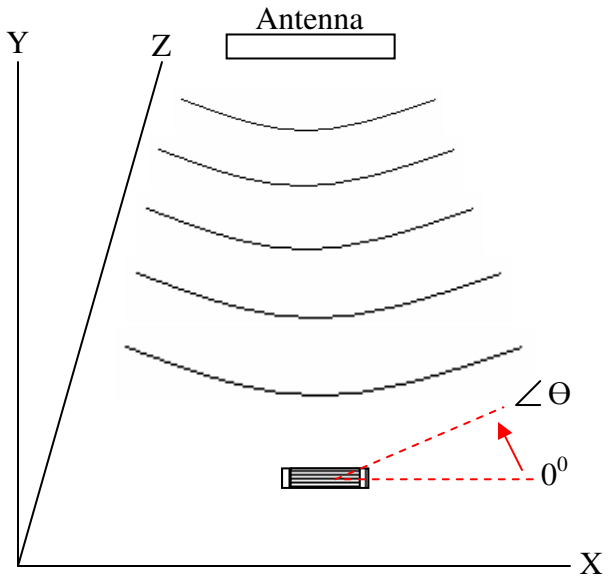
Angular Sensitivity

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