TheTagFactory
ENGINEERING RFID SOLUTIONS

Data Sheet

M-Armada Tag 2K

(High Memory-2K bit)

FEATURES

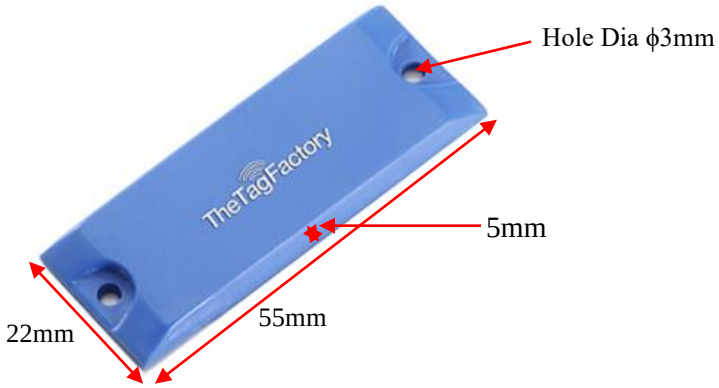
- Operates effectively with good read range, especially when attached to metal.
- Rugged construction for high durability.
- Can be attached by screws with the help of two holes.
- Can also be provided with Adhesive tape for easy attachment.
- Flexible Read/Write Range (reader dependant).

APPLICATIONS

- M-Armada is ideal for applications that require high memory for storing information of Equipment, Parts, Containers, railway and warehousing management such as manufacturing, repair etc.
- Factory automation, Automotive & Security purpose.

Chip Type:	**Qstar-35, Compatible with EPC global Class 1 Gen 2 & ISO/IEC 18000-6C**	
	EPC Memory: 96 bits extendable up to 496 bits	
	User Memory: 2K bits	
	Data Retention: 30 years	
	Write Endurance: 100,000 cycles	
Mechanical:	**Dimension**	55 x22 x 5mm
	Material	ABS
	Colour	Blue
	Weight	5.6 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:	369W1	
Options:	**Available with:**	
	User Memory 4K, 8K & 64K on request.	
	Other Frequency on request.	
	Other plastic material and colors.	
	Adhesive backing for easy mounting (indoor application).	

Dimension

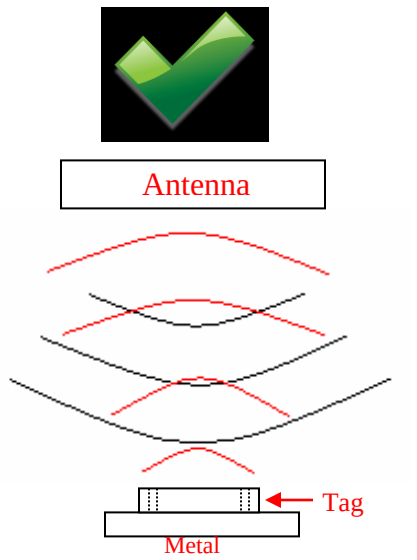


Note: Tolerance applicable are **Length:** ±1mm, **Width:** ±0.5mm and **Thickness:** ±0.3mm

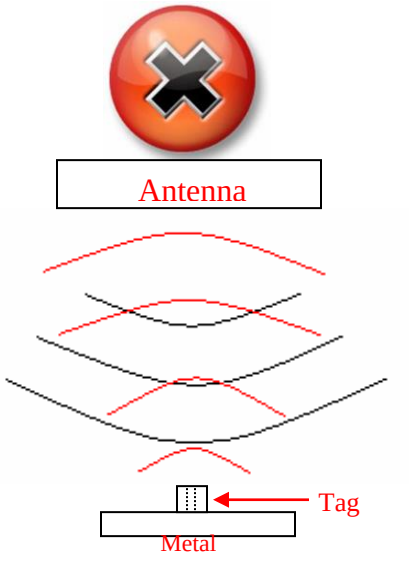
Tag Placement

- M-Armada is polarized parallel to the length.
- 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



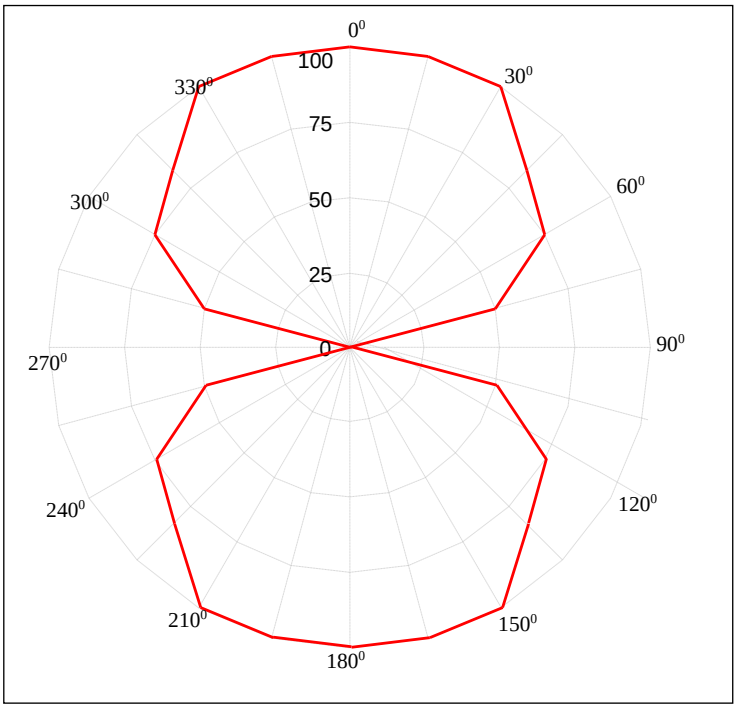
Wrong way



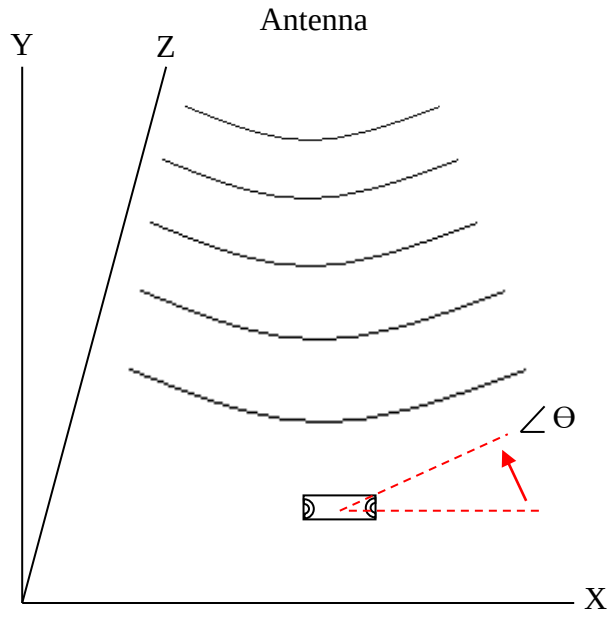
- Tag can be attached either through screw M3/ Rivets / Adhesive tape.
- The distance between the hole to hole is 47mm

M-Armada Tag orientation 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