



M-King Tag

FEATURES

- M-King tag operates effectively with read range of over 8m when attached to metal.
- Rugged construction for high durability.
- Can be provided with Adhesive tape for easy attachment.

APPLICATIONS

- Due to high read range, M-King can be effectively used in asset tracking, Warehouse management, Containers and Railway Coaches identification.
- Factory automation, Automotive & Security purpose.

Chip Type:	Alien Higgs 9, GS1 Class 1 Gen 2	
	EPC Memory: Up to 496-EPC Bits (nominally 96 bits)	
	User Memory: Up to 688 Bits	
	Data Retention: 50 Years	
	Write Endurance: 200,000 Cycles	
Mechanical:	Dimension	Dia. 62mm, thickness 10mm
	Material	ABS
	Colour	Blue
	Weight	25 gm
Electrical:	Operating Frequency	865-868MHz, (902-928MHz also available on request)
	Operating mode	Passive (battery-less transponder)
Ingress Protection:	IP67	
Thermal:	Storage Temp.	-25°C to +85°C
	Operating Temp.	-25°C to +85°C
Part Number:	309V3	
Options:	Available with:	
	Other IC type on request	
	Other plastic material and colours	
Adhesive backing for easy mounting (indoor application)		



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

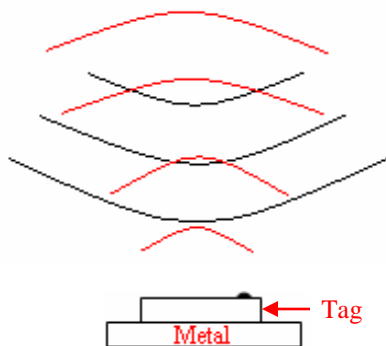
Tag Placement

- ✚ M-King is polarized parallel to rectangle in the tag.
- ✚ 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 axis of the rectangle in the tag as shown in below figure:

Correct way



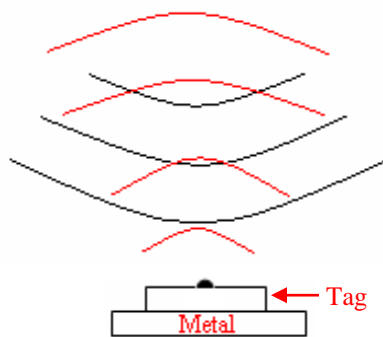
Antenna



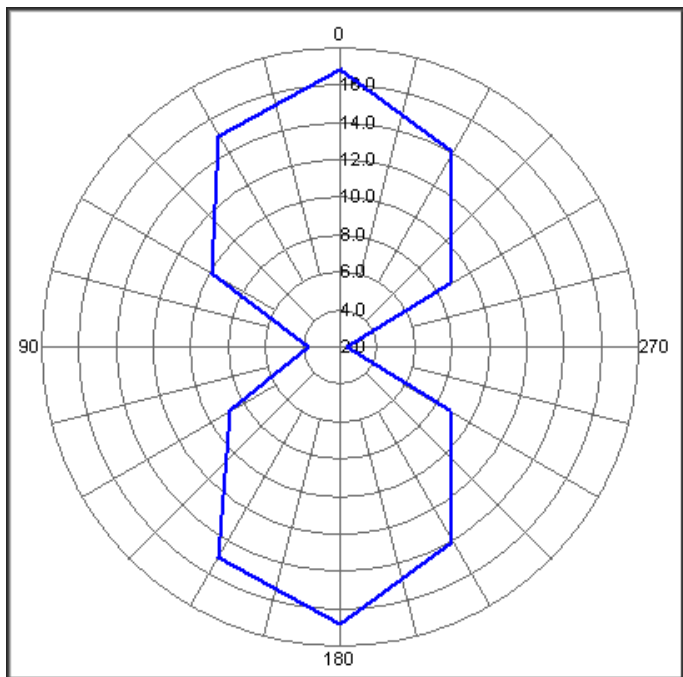
Wrong way



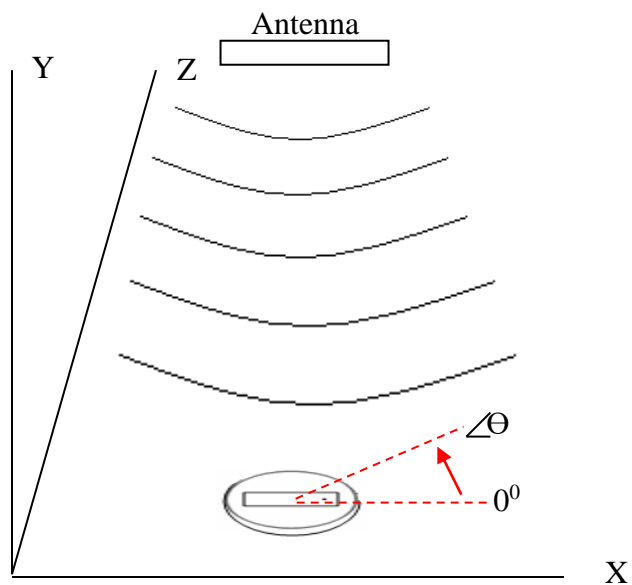
Antenna



M-King Tag Angular Sensitivity
(Relative Read Range vs. Orientation)



Read range (in meter) at various angle



Tag is rotated in X-Y plane about the