



M-Shield Tag

FEATURES

- M-Shield tag is operating effectively with read range of over 10m 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.

APPLICATIONS

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

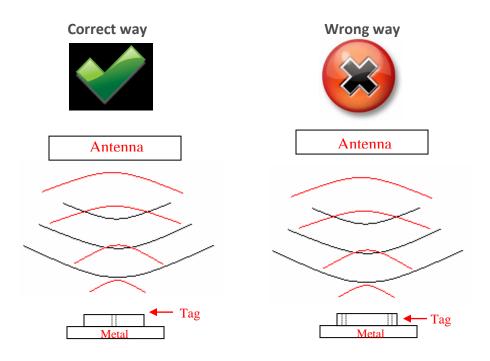
Chip Type:	Alien Higgs 9, GS1 Class 1 Gen 2	
	EPC Memory: Up to 496-EPC Bits (nominally 96 bits)	
	User Memory: Up to 688 Bits	
	Data Retention: 50 Years	
	Write Endurance: 200,000 Cycles	
Mechanical:	Dimension	53 x 53 x 10mm
	Material	ABS
	Colour	Blue
	Weight	25 g
Electrical:	Operating	865-868MHz, (902-928MHz also available on
	Frequency	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:	317V3	
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:** ±1mm, **Width:** ±0.5mm and **Thickness:** ±0.3mm

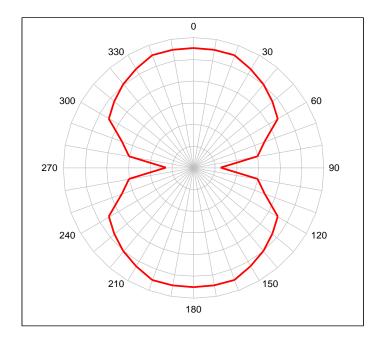
Tag Placement

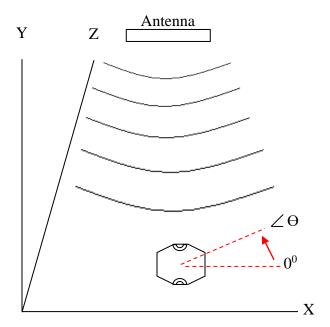
- ♣ M-Shield is polarized perpendicular to TTF logo.
- ♣ Place the tag in such a way that most of its bottom area comes in direct contact with metal.
- **♣** Ensure that there is no hindrance between the tag and the reader antenna.
- ♣ Reader antenna should be perpendicular to the axis of tag hole as shown in below figure:



M-Shield 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