TheTagFactory
ENGINEERING RFID SOLUTIONS

Data Sheet

Keg Tag (Beerkeg)

Global Frequency / ETSI / FCC

FEATURES

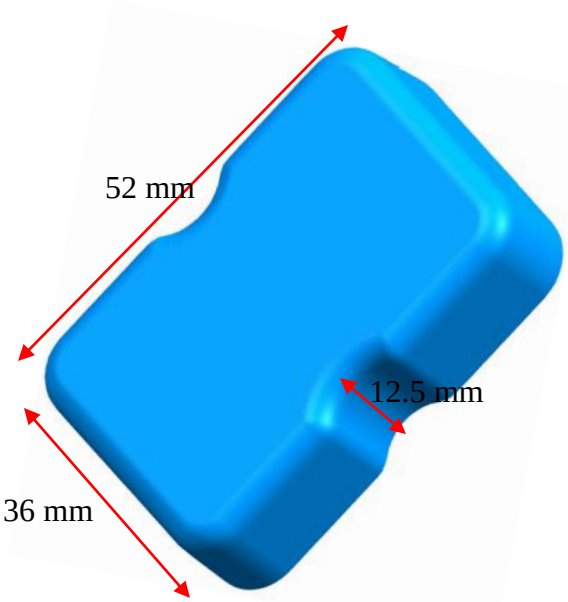
- Keg tag operates effectively with read range over 12m when attached to metal.
- Global, ETSI and FCC frequency
- Rugged construction for high durability.
- Can also be provided with Adhesive tape for easy attachment.

APPLICATIONS

- Due to high read range, Keg tag can be effectively used in metal kegs tracking, asset tracking, Containers and Railway Coaches identification.
- Truckload full of (Beer) kegs can be read through RFID gate at 25km/ph.

Chip Type:	**UHF Class 1 Gen 2, Alien Higgs 4**	
	EPC Memory: 128 bits	
	User Memory: 128 bits	
	Data Retention: 50 years	
	Write Endurance: 100,000 cycles	
Mechanical:	**Dimension**	52 x 36 x 12.5mm
	Material	ABS
	Colour	Blue
	Weight	25 g
Electrical:	**Operating Frequency**	Global, Europe ETSI 866-868 MHz and USA FCC 902-928MHz
	Operating mode	Passive (battery-less transponder)
Ingress Protection:	IP68	
Thermal:	**Storage Temp.**	-40°C to +100°C
	Operating Temp.	-40°C to +85°C
Part Number:	31BY1	
Options:	Available with:	
	Other IC type on request	
	Other colors on request	
	Adhesive backing for easy mounting	

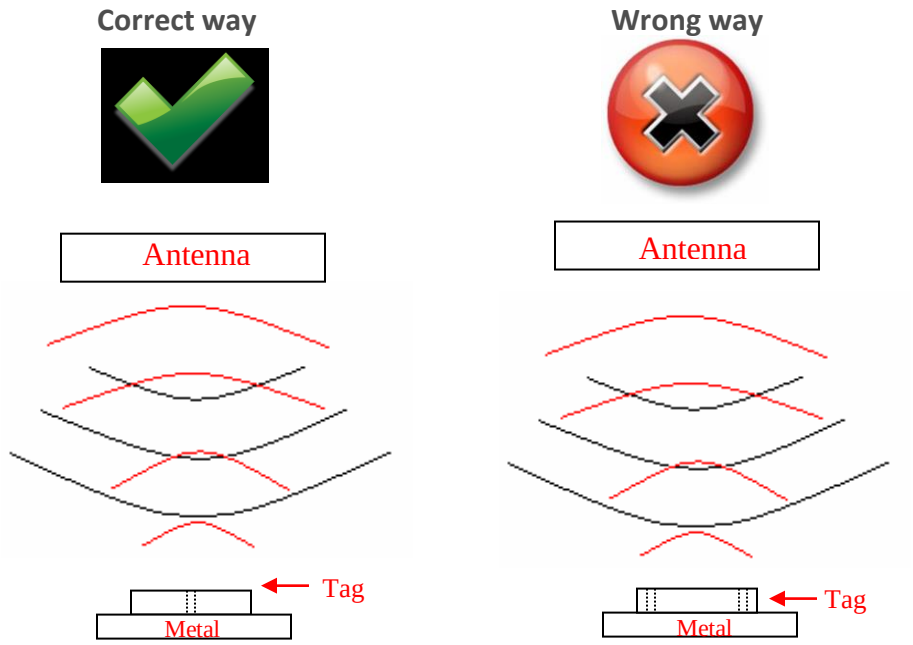
Dimension



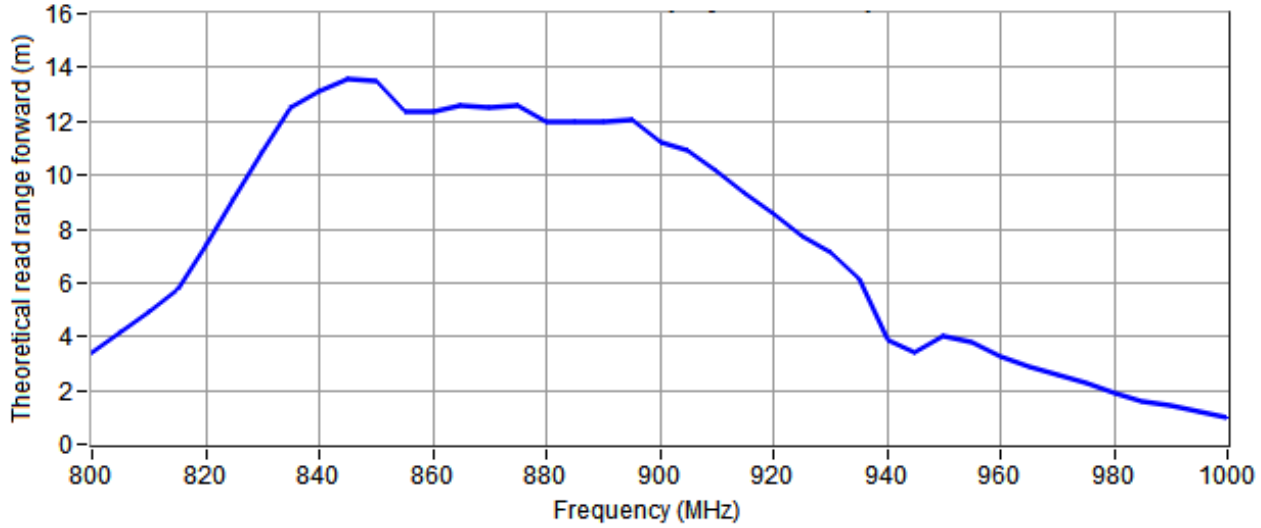
Note: Tolerance applicable are **Length:** ±1mm, **Width:** ±0.5mm and **Thickness:** ±0.3mm

Tag Placement

- 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 as shown in below figure:



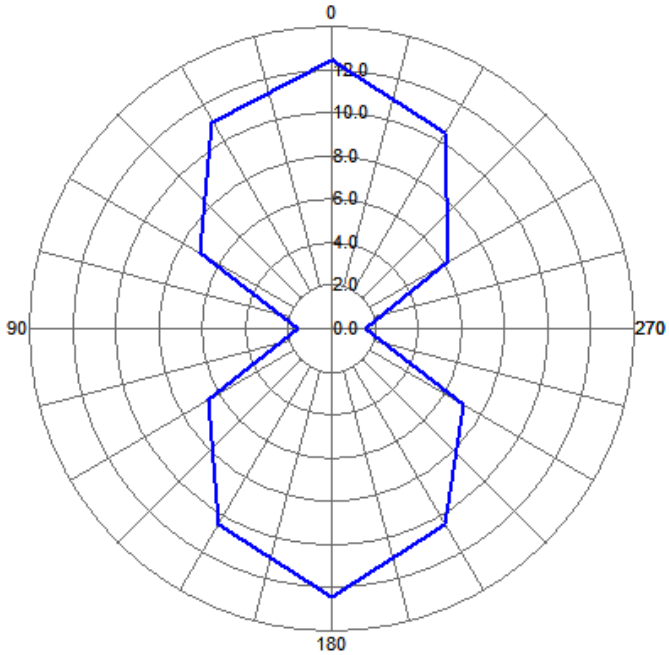
Frequency v/s Read Range Graph



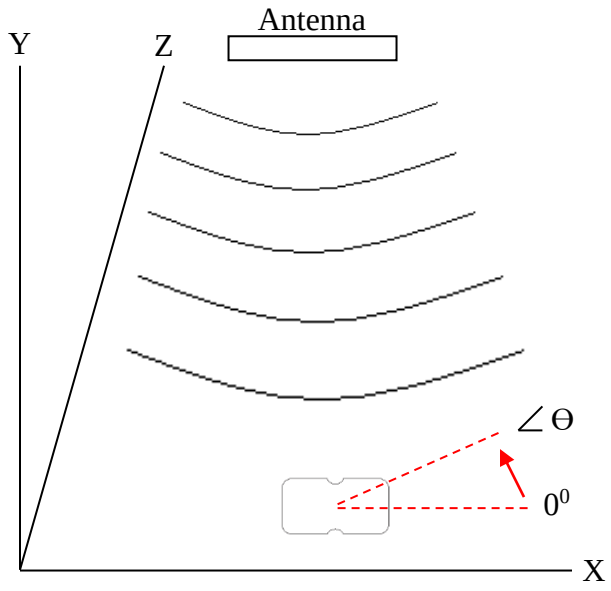
Angular Sensitivity

Keg Tag Angular Sensitivity

(Relative Read Range vs. Orientation)



Read range (in meter) at various angle



Tag is rotated in the X-Y plane about the z axis