



## M-Knight Tag

#### **FEATURES**

- M-Knight Tag has very good size to performance ratio, when attached to metal.
- The product has been designed to be easily attached by adhesive.
- Flexible Read/Write Range (reader dependant).

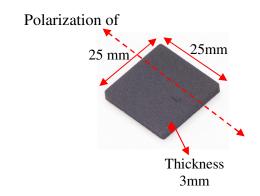
#### **APPLICATIONS**

- Used in IT asset tracking applications such as backup tapes, servers, hard drives and media tapes without any human intervention.
- Inventory control of small tools and manufacturing equipment, servers and network routers.

Chip Type:	Alien Higgs 3 EPC Class 1 Gen 2		
	EPC 96 bit extendable up to 480 bits		
	User Memory 512 bit		
	Data retention of 50 years		
	Write endurance 100.000 cycles at Room temperature		
Mechanical:	Length	25±0.5 mm	
	Width	25±0.5 mm	
	Thickness	3±0.5 mm (at chip area: 3.5±0.5mm)	
	Material	Ceramic	
	Encasing	Durable Paint	
	Colour	Black	
	Weight	8.6 g	
Electrical:	Operating Frequency		865-868MHz, (902-928MHz also available on request)
	Operating mode		Passive (battery-less transponder)
Ingress Protection:	IP68		
Thermal:	Storage Temp.	ge Temp40°C to +150°C	
	Operating Temp40°C to		) +85°C
Part Number:	383V1		

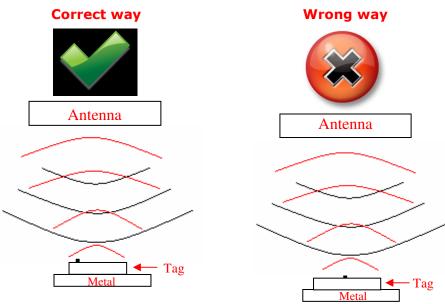
# STALLION Smarter... Faster... Higher...

**Dimension** 

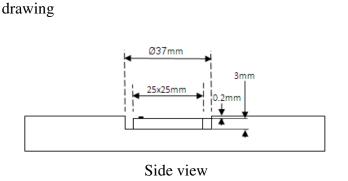


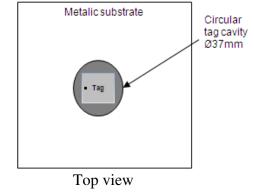
Tag Placement

- **♣** Tag can be easily attached through adhesive tape at back.
- ♣ M-Knight tag is polarized along with the dotted line in the above picture (Dimension section).
- ♣ 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 dotted line as shown in above figure:



- **♣** If the tag is to be placed/embed in metal then:
  - a.) Ensure that the tag should be surrounded by metallic surface to get optimum read range.
  - b.) It is recommended to make a round cavity in metal substrate having dimensions as per below



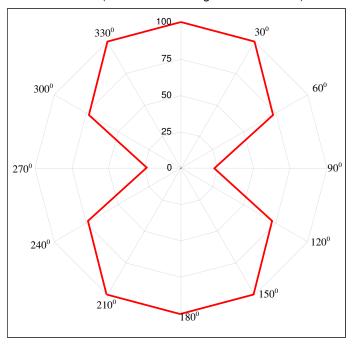


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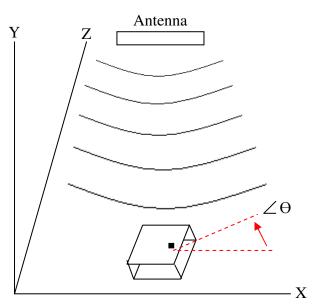
### **Angular Sensitivity**

### M-Knight 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

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