



FEATURES

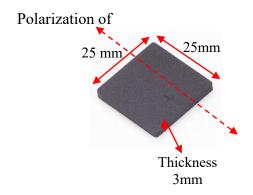
- M-Knight Tag has very good size to performance ratio, when attached to metal.
- The product has been designed to be easily attached by adhesive.
- Flexible Read/Write Range (reader dependant).

M-Knight Tag

APPLICATIONS

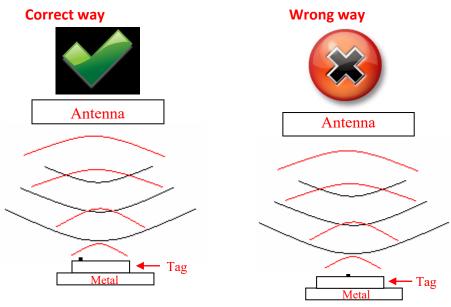
- Used in IT asset tracking applications such as backup tapes, servers, hard drives and media tapes without any human intervention.
- Inventory control of small tools and manufacturing equipment, servers and network routers.

Alien Hig		
	Alien Higgs 3 EPC Class 1 Gen 2	
EPC Men	EPC Memory : 96 bit extendable up to 480 bits	
Chip Type: User Mer	User Memory : 512 bit	
Data rete	Data retention : 50 years	
Write end	Write endurance: 100,000 cycles at Room temperature	
Length	25±0.5 mm	
Width	25±0.5 mm	
Mechanical:	s 3±0.5 mm (at chip area: 3.5±0.5mm)	
Material	Ceramic	
Encasing	Durable Paint	
Colour	Black	
Weight	8.6 g	
Operating Electrical:	g Frequency 865-868MHz, (902-928MHz also available of	n request)
Operating	g mode Passive (battery-less transponder)	
Ingress Protection: IP68		
Application	on Temp40°C to +150°C (+150°C for 30min)	
Thermal: Application Operating		
Thermal:		
Thermal:		
Thermal: Operating		
Thermal: Operating	g Temp40°C to +85°C	
Part Number: 383V1 Available	g Temp40°C to +85°C	



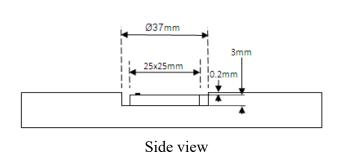
Tag Placement

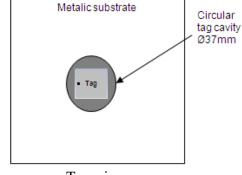
- Tag can be easily attached through adhesive tape at back.
- ♣ M-Knight tag is polarized along with the dotted line in the above picture (Dimension section).
- Place the tag in such a way that most of its bottom area comes in direct contact with metal.
- Ensure that there is no hindrance between the 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 drawing

 Metalic substrate

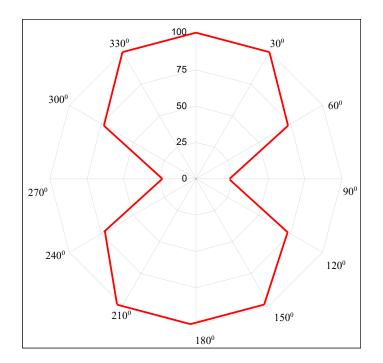




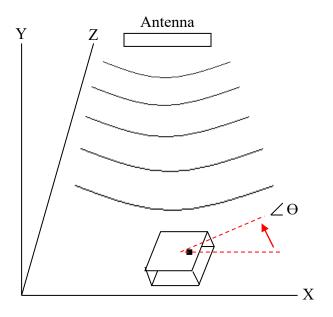
Top view

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