



# **M-Bishop Tag**

#### **FEATURES**

**Options:** 

- M-Bishop Tag is small in size & has very good read range, when attached to metal.
- The product has been designed to be easily attached by adhesive.
- Flexible Read/Write Range (reader dependant).

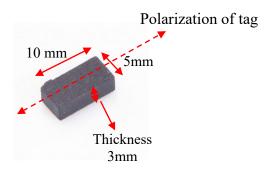
#### **APPLICATIONS**

- 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 Memory : 96 Bit extendable up to 480 Bits	
	User Memory: 512 Bit	
	Data retention : 50 years	
	Write endurance: 100,000 cycles at Room temperature	
Mechanical:	Length	10±0.5 mm
	Width	5±0.5 mm (at chip area: 5.5±0.5mm)
	Thickness	3±0.5 mm
	Material	Ceramic
	Encasing	Durable Paint
	Colour	Black
	Weight	0.9 g
Electrical:	Operating Frequency	865-868MHz, (902-928MHz also available on request)
	Operating mode	Passive (battery-less transponder)
Ingress Protection:	IP68	
Thermal:	Application Temp.	-40°C to +150°C (+150°C for 30min)
	Operating Temp.	-40°C to +85°C
Part Number:	381V1	
	Available with	

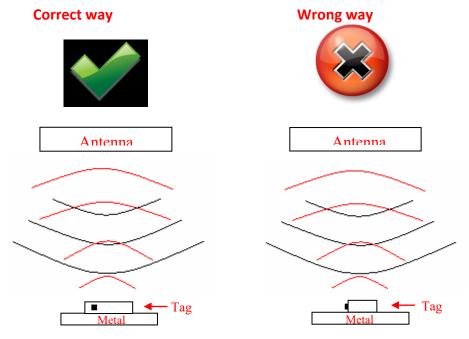
Other Frequency on request

Adhesive backing



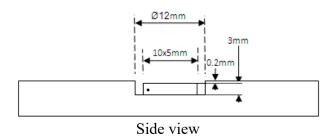
### **Tag Placement**

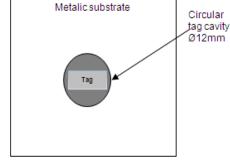
- Tag can be easily attached through adhesive tape at back.
- ♣ M-Bishop tag is polarized along with the dotted line in the above picture (Dimension section).
- Place the tag in such a way that most of its bottom area comes in direct contact with metal.
- **♣** Ensure that there is no hindrance between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

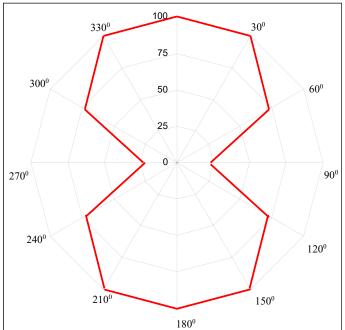




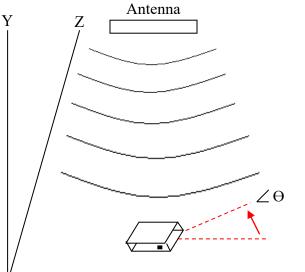
Top view

## M-Bishop Tag Angular Sensitivity

(Relative Read Range vs. Orientation)







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