



## EPR Metal – Mini Pawn Tag

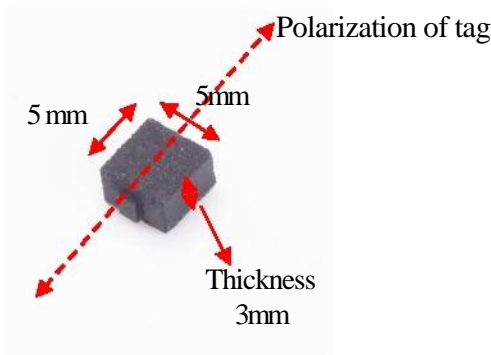
### FEATURES

- M-Pawn Tag is very 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.

<b>Chip Type:</b>	<b>Alien Higgs 3 EPC Class 1 Gen 2</b>	
	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	
<b>Mechanical:</b>	Dimension	5 x 5 x 3 mm
	Material	Ceramic
	Encasing	Durable Paint
	Colour	Black
	Weight	0.4 g
<b>Electrical:</b>	Operating Frequency	865-868MHz, (902-928MHz also available on request)
	Operating mode	Passive (battery-less transponder)
<b>Ingress Protection:</b>	IP68	
<b>Thermal:</b>	Storage Temp.	-40°C to +150°C
	Operating Temp.	-40°C to +85°C
<b>Part Number:</b>	380V1	



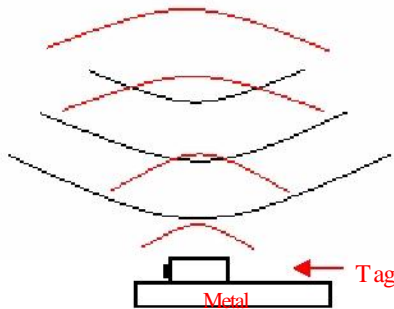
### Tag Placement

- M-Pawn 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:

#### Correct way



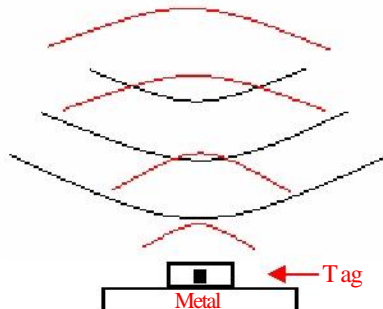
Antenna



#### Wrong way



Antenna

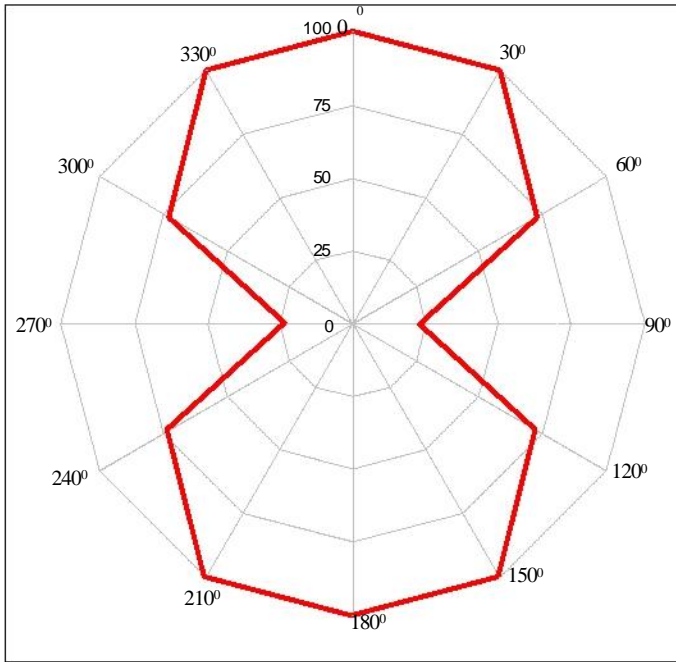


- Tag can be easily attached through adhesive tape at back.

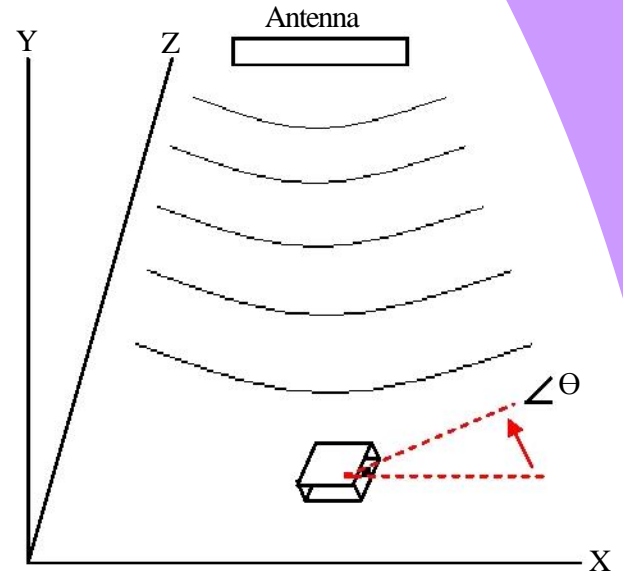


### M-Pawn Tag Angular Sensitivity

(Relative Read Range vs. Orientation)



Read range (in percent) at various angle.



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