



## Jewellery Tag (Global)

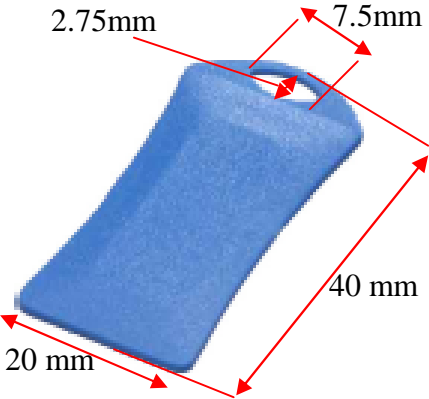
### FEATURES

- The Jewellery Tag is frequency independent tag and has a smooth surface for convenient labeling of price, material, style or other information.
- Very small and attractive in size & shape with multi read/write capability
- Dust & Waterproof
- Flexible Read/Write Range (reader dependant).
- Insensitive to almost all non metallic materials.

### APPLICATIONS

- The Jewellery Tag is specifically designed to protect high value jewellery and small expensive accessories.
- Automatic tracking of Jewellery to market communities, secured storing and other areas.
- It can read hundreds of pieces of jewellery attached with RFID tags in seconds.
- Suitable for small form factor with longer read range capability is required including inside metal containers or computer equipment, etc.
- It is more effective to make an inventory of the jewellery.

<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	
<b>Mechanical:</b>	Length	40mm
	Width	20mm
	Thickness	3.0mm
	Material	ABS
	Colour	Blue
	Weight	2.0 gm.
<b>Electrical:</b>	Operating Frequency	860-928 MHz
	Operating mode	Passive (battery-less transponder)
<b>Ingress Protection:</b>	IP68	
<b>Thermal:</b>	Storage Temp.	-40°C to +85°C
	Operating Temp.	-40°C to +85°C
<b>Part Number:</b>	311V2	
<b>Options:</b>	Available with:	
	Other IC type	
	Other plastic material and colours e.g. PC/ABS	
	Thread / Adhesive backing for easy mounting	



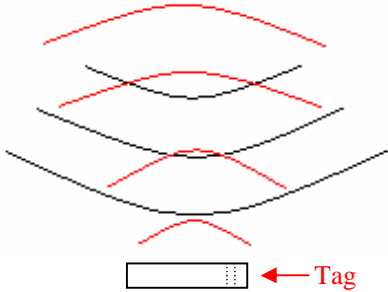
Tag Placement

- ✦ Jewellery tag is polarized perpendicular to its length.
- ✦ Ensure that there is no hindrance between the tag and the reader antenna.
- ✦ Reader antenna should be parallel to length of tag as shown in below figure:

Correct way



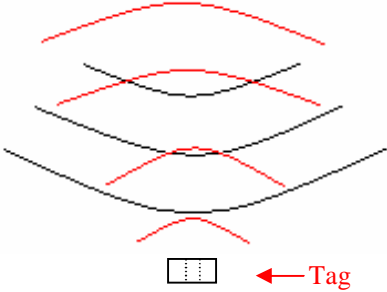
Antenna



Wrong way

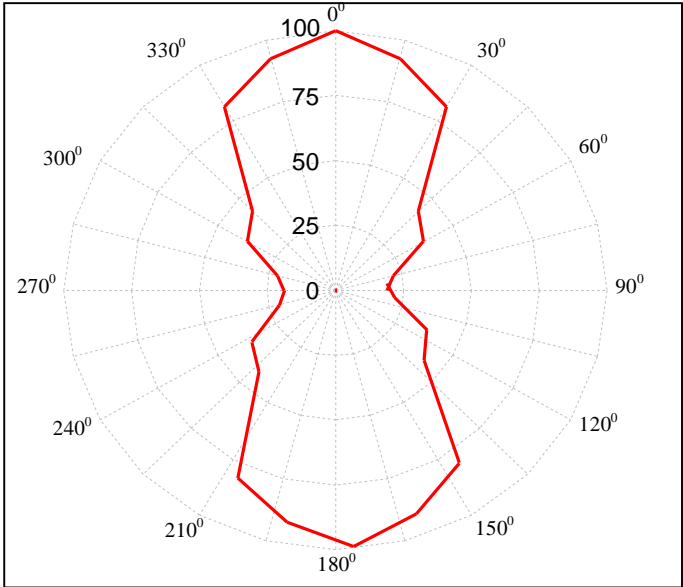


Antenna

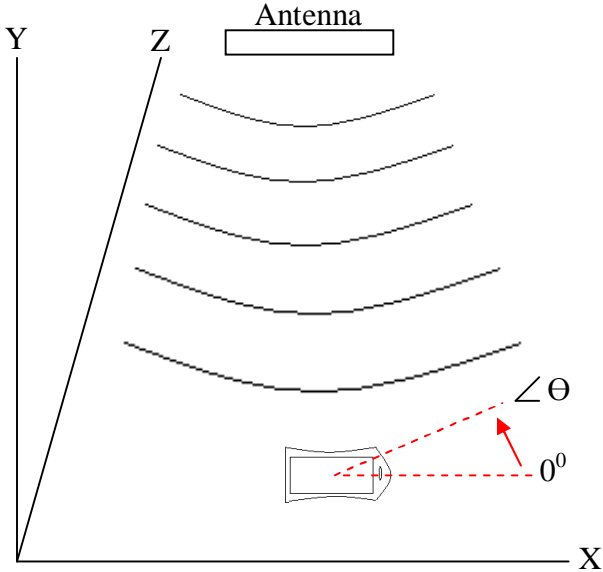


- ✦ Tag can be attached through Thread, Cable Ties or Adhesive tape.

### Jewellery 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