The Tag Factory
MANUFACTURER OF RFID TAGS

Jewellery Tag

FEATURES

- The Jewellery Tag 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.

| Chip Type:	Alien Higgs 2 EPC Class 1 Gen 2	
	EPC 96 bit extended up to 128 bit	
	User Memory 64 bit	
	Data retention of 10 years	
	Write endurance 100.000 cycles	
Mechanical:	Length	40mm
	Width	20mm
	Thickness	3mm
	Material	ABS
	Colour	Blue
	Weight	1.5 gm.
Electrical:	Operating Frequency	865-869 MHz (902-928MHz also available on request)
	Operating mode	Passive (battery-less transponder)
Ingress Protection:	IP67	
Thermal:	Storage Temp.	-20°C to +85°C
	Operating Temp.	-20°C to 85°C
	Transport Conditions	-40°C to 85°C
Part Number:	31T01	
Options:	Available with:	
	Other IC type and Frequency on request	
	Other plastic material and colours e.g. PC/ABS	
	Adhesive backing for easy mounting (indoor application)	

2.75mm   7.5mm

40 mm

20 mm
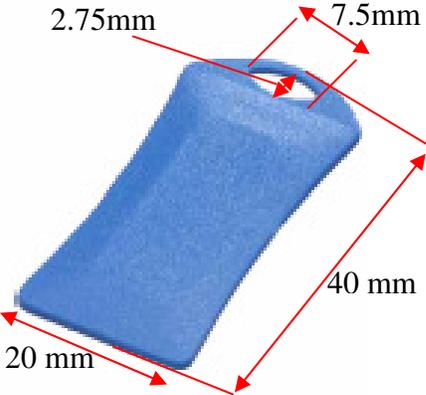
- Jewellery tag is polarized perpendicular to TTF logo.
- Ensure that there is no hindrance between the tag and the reader antenna.
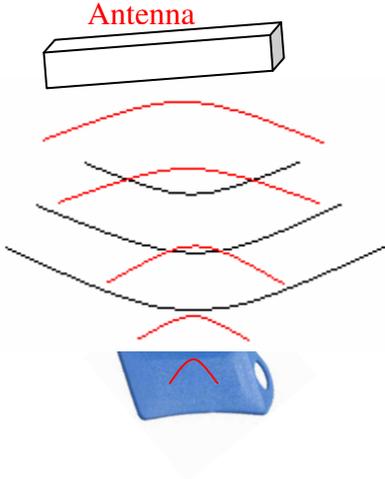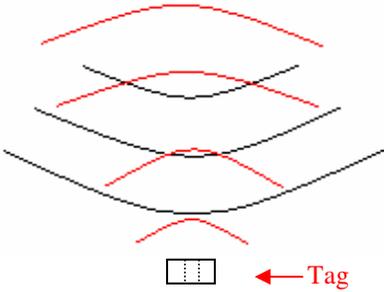- Reader antenna should be parallel to length of tag as shown in below figure:
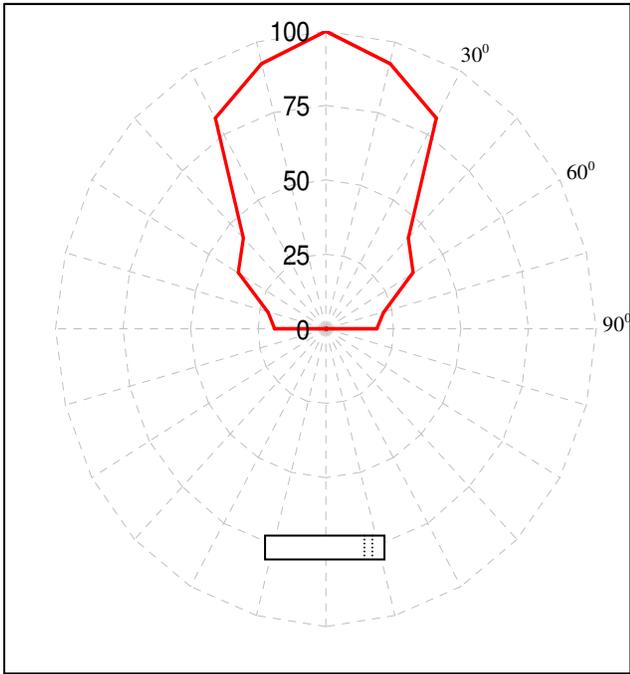
Correct way

Antenna

Tag
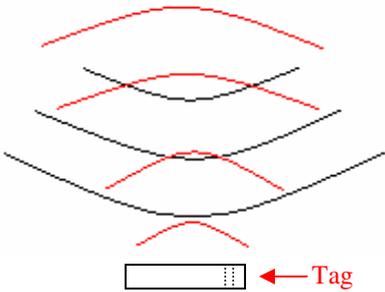
Wrong way

Antenna

Tag

Antenna

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

Estimated Radiation pattern of tag when placed along its axis.

Read range (in percent) at various angle.