The Tag Factory
MANUFACTURER OF RFID TAGS

Data Sheet

M-Nano Tag

FEATURES

- M-Nano Tag is very small in size & has very good read range, especially when attached to metal.
- The product has been designed to be easily attached by adhesive.
- Can be used with cable ties through its mounting hole.
- Flexible Read/Write Range (reader dependant).

APPLICATIONS

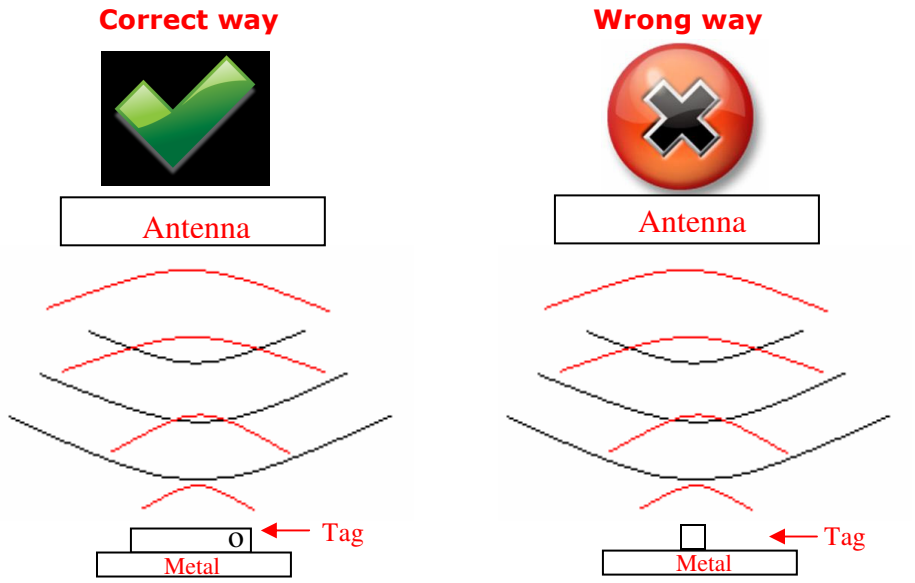
- Used in IT asset tracking applications such as backup tapes, servers, hard drives and media tapes without any human intervention.
- Inventory control of small tools and manufacturing equipment, servers and network routers.

Chip Type:	**Alien Higgs 3 EPC Class 1 Gen 2**	
	EPC 96 bit extendable up to 480 bits	
	User Memory 512 bit	
	Data retention of 10 years	
	Write endurance 100.000 cycles	
Mechanical:	Dimension	38.5 x 13.5 x 3.5 mm
	Face Material	Polyester
	Colour	Blue & white
	Weight	1.7 gm.
Electrical:	Operating Frequency	865-869MHz, (902-928MHz also available on request)
	Operating mode	Passive (battery-less transponder)
Ingress Protection:	IP67	
Thermal:	Storage Temp.	-25°C to +70°C
	Operating Temp.	-25°C to +70°C
	Transport Conditions	-40°C to +70°C
Part Number:	31T02	
Options:	Available with:	
	Other IC type and Frequency on request	
	Other colour combination & material	
	Adhesive backing / hanging thread for easy mounting (indoor application)	
	Available for non-metallic application	

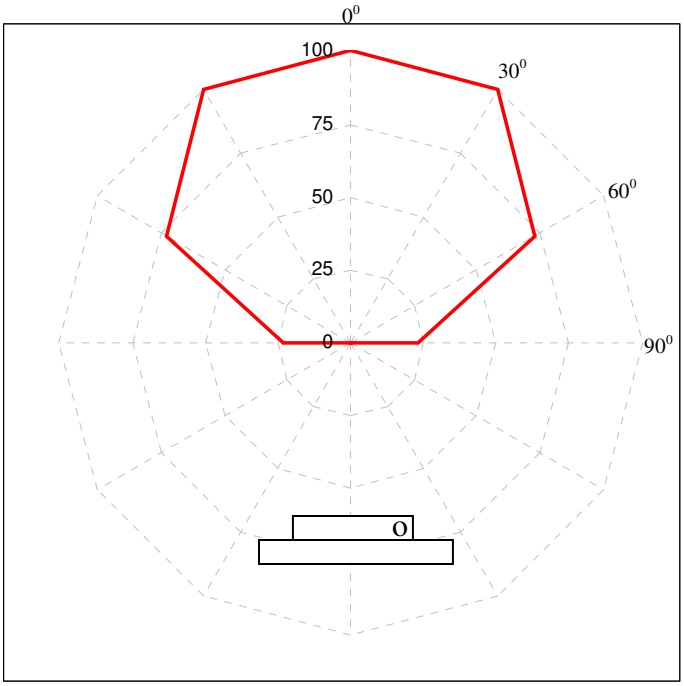
Dimension

Tag Placement

- M-Nano is polarized perpendicular to TTF logo.
- 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 length of tag as shown in below figure:



- Tag can be attached through adhesive tape or can be hanged through nylon thread.



Estimated Radiation pattern of tag when placed along its axis.

Read range (in percent) at various angle.