TheTagFactory
ENGINEERING RFID SOLUTIONS

Datasheet

HTron Tag

(High Temperature)

FEATURES

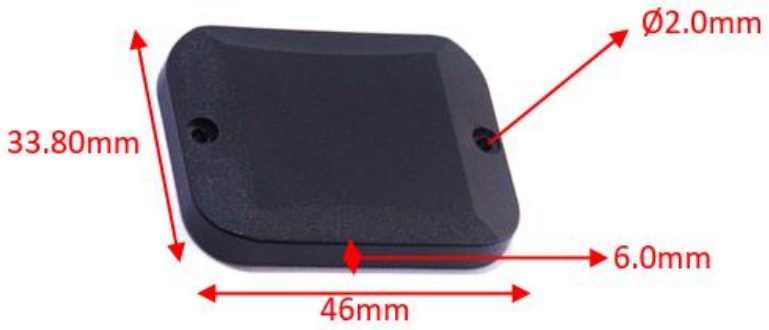
- HTron Tag is a High Temperature RFID UHF tag optimized for metal substrates.
- Resistant to extreme temperatures (-20°C to +150°C), water, cleaning products, vibrations
- Fixing methods: screw, rivets or adhesive
- Flexible Read/Write Range (reader dependent).

APPLICATIONS

- It is an ideal solution for applications where surviving excessive heat in a rugged environment is needed.
- Optimized for metal applications used in Tool tracking, medical device tracking.

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:	**Dimension**	46 x 33.8 x 6 mm
	Material	High Temperature Resistant Nylon Material
	Colour	Black
	Weight	18 g
Electrical:	**Operating Frequency**	865-868MHz, (902-928MHz also available on request)
	Operating mode	Passive (battery-less transponder)
Ingress Protection:	IP68	
Thermal:	**Application Temp.**	-20°C to +150°C
	Operating Temp.	-20°C to +85°C
Options:	**Available with**	
	Other Frequency on request	
	Adhesive backing	

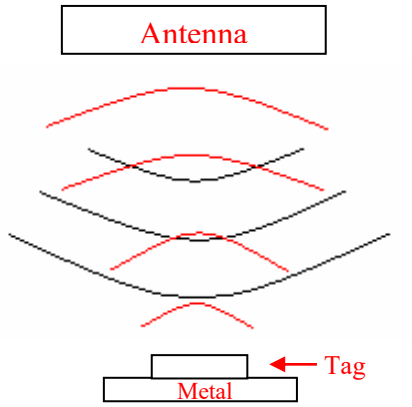
Dimension



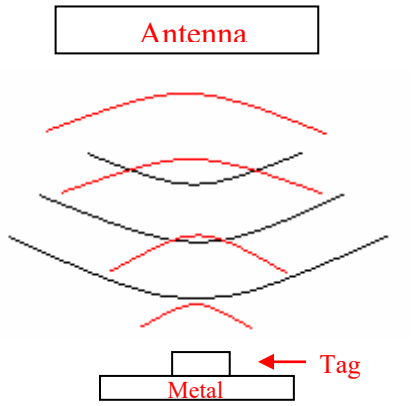
Tag Placement

- Tag can be easily attached having 2 x Ø2mm holes through Rivet/Screw or Adhesive Tape at back.
- 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:

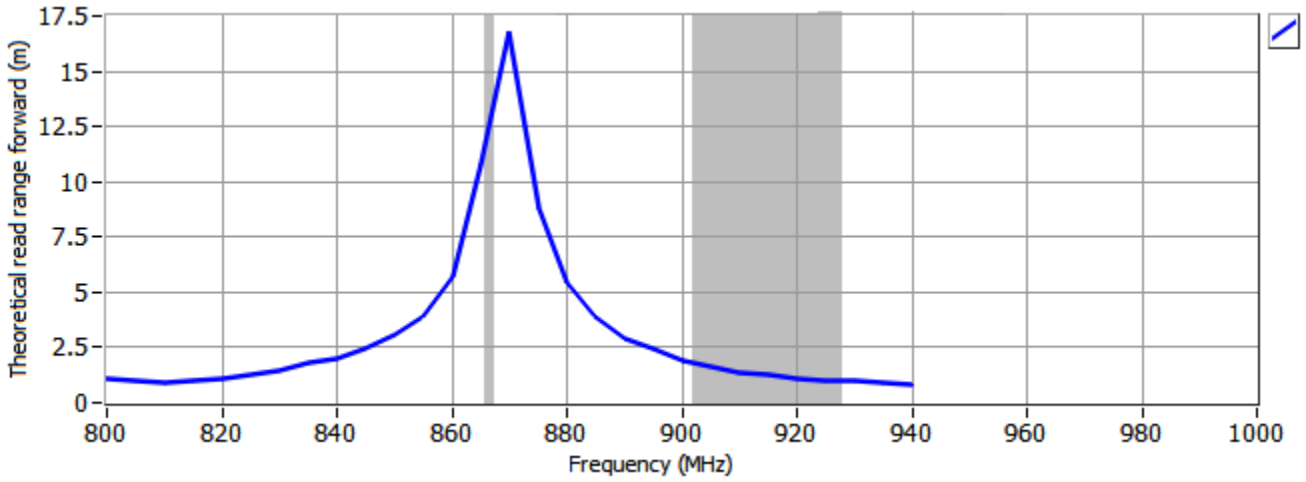
Correct way



Wrong way



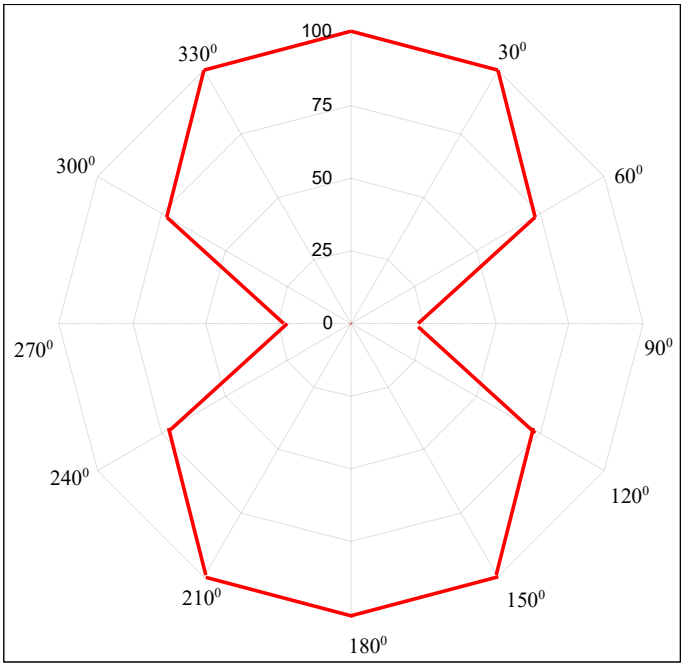
Frequency v/s Read Range Graph



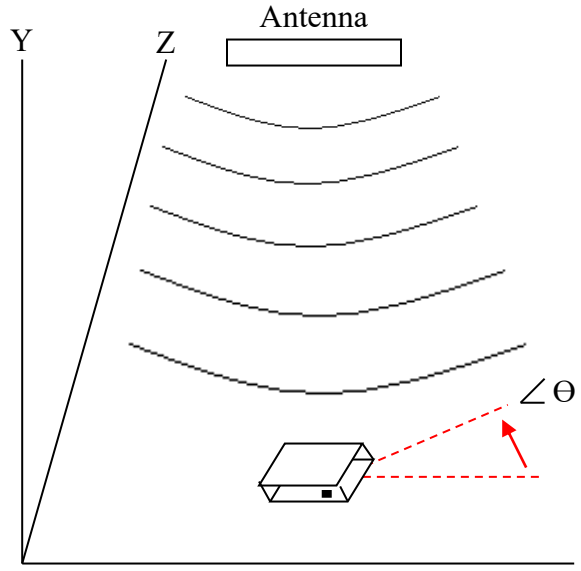
Angular Sensitivity

HTron Tag Angular Sensitivity

(Relative Read Range vs. Orientation)



Read range (in percent) at various angles.



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