



## M-Prince HT Tag

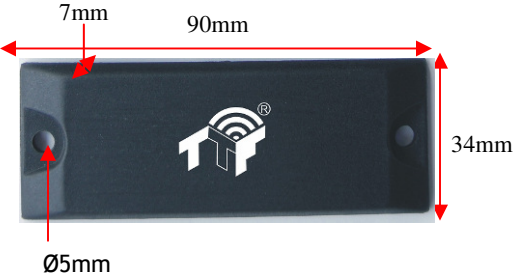
### FEATURES

- M-Prince **high temperature** tag is especially designed for applications and processes involving high temperatures.
- Operates effectively with a very good read range, especially when attached to metal.
- Rugged construction for high durability in harsh environments.
- Can be attached by screws with the help of two holes.
- Flexible Read/Write Range (reader dependant).

### APPLICATIONS

- Used in high temperature applications like boilers and engines identification
- Used in asset tracking applications such as Equipment, Parts, Containers, railway and warehousing solutions.
- Factory automation, Automotive & Security purpose.

<b>Chip Type:</b>	<b>Alien Higgs 3 EPC Class 1 Gen 2</b>	
	EPC 96 bit extendable upto 480 bits	
	User Memory 512 bit	
	Data retention of 10 years	
	Write endurance 100.000 cycles	
<b>Mechanical:</b>	Dimension	90 x 34 x 7mm
	Material	High Temp. plastic
	Colour	Black
	Weight	24 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.	-20°C to +120°C, (+180°C for 30min)
	Operating Temp.	-20°C to +85°C
<b>Part Number:</b>	322V1	
<b>Options:</b>	Available with:	
	Other IC type and Frequency on request	
	Other plastic material and colours	
	Available for non-metallic application	



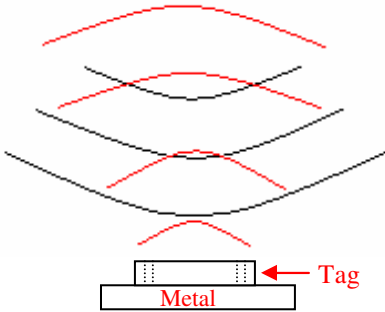
Tag Placement

- ✚ M-Prince 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 tag length as shown in below figure:

Correct way



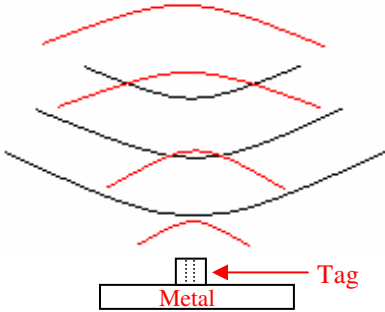
Antenna



Wrong way

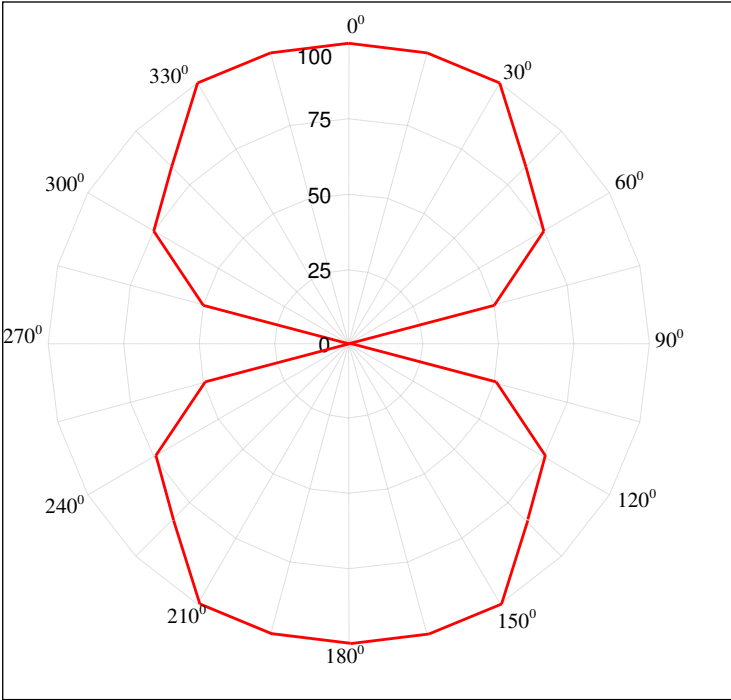


Antenna

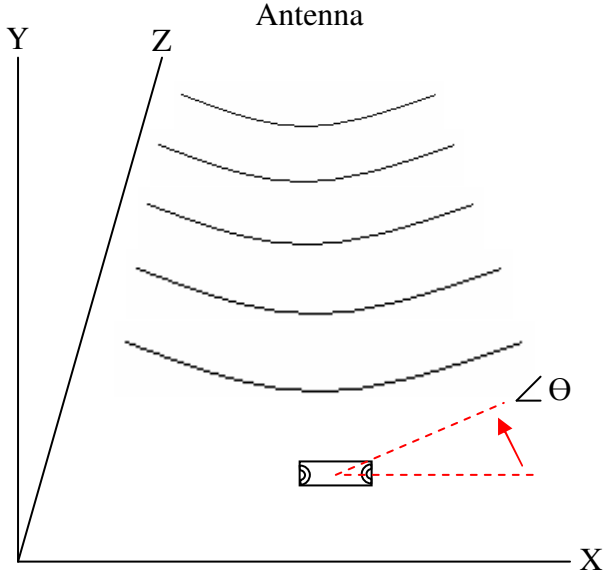


- ✚ Tag can be attached either through screw M5/ Rivets / Adhesive tape.
- ✚ The distance between the hole to hole is 80mm
- ✚ Attachment through adhesive should be used only for indoor application.

### M-Prince HT 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