



# MESONTAGS

the smarter way of identification

## Description & Features

UHF Tire Patch tag is passive RFID tag developed to be placed on the tire after manufacturing, it is durable enough to last the lifetime of the tire. It is designed to track finished tire, such as car, bus, truck and trailer tires etc.

This tag provides a unique identification number to the tire which prevents tyre theft and cloning, in addition to the conventional asset tracking benefits inherent to RFID.



**UHF TIRE PATCH TAG** (Part No. : 31KEY9004)

[www.mesontags.com](http://www.mesontags.com)

### Electrical Characteristics

Communication ISO Protocol	ISO/IEC 18000-6C, EPC Class – 1 Gen2
Operating Frequency band	865 MHz or 915 MHz
Chip type	<b>Alien Higgs-3 (Other upon request)</b>
Memory Organisation	<ul style="list-style-type: none"> <li>• EPC–96 bits, extendible to 480bits</li> <li>• TID – 96 bits unalterable &amp; unique</li> <li>• User memory – 512 bits</li> <li>• Access password – 32 bits</li> <li>• Kill password – 32 bits</li> </ul>
Read Range	3 - 5m (after placing on Tire)

Data retention	50 Years
Endurance cycle	100,000 Cycles

### Physical Characteristics

Dimension	: 95 x 35 mm
Thickness	: 2.5mm
Encasement	: Engineering rubber
Weight	: 5.5 gm
Color	: Grey & Black
Quality Testing	: 100%

### Environmental Characteristics

Ingress Protection	: IP68
Operating Temperature	: -40°C to +85°C
Storage Temperature	: -40°C to +85°C
Moulding pressure	: Up to 5000 Kpa
Application	: All sized tires
Attachment/ mounting	: Vulcanizing fluid Adhesive

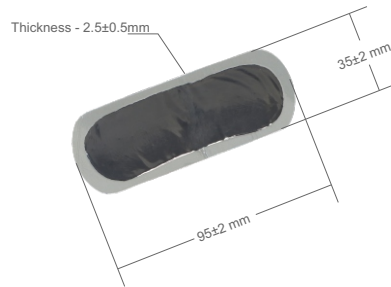
### Chemical Characteristics

■ Resistance to salt water exposure	: Yes
■ Resistance to lubricant exposure	: Yes
■ Resistance to IPA & thinner	: Yes

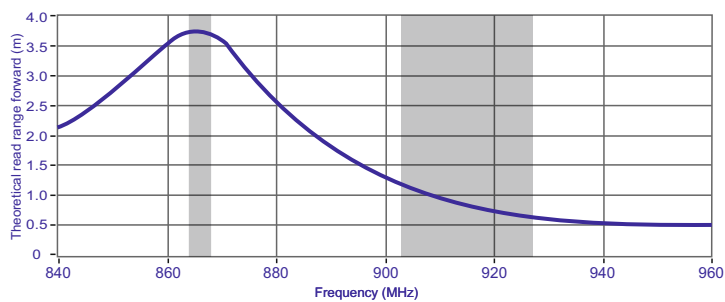
### Additional Customization

■ Encoding	: Yes
■ Logo/Text printing	: Yes

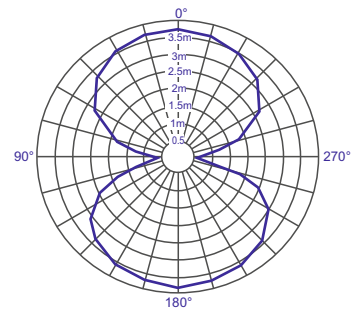
## Dimensions



## Frequency v/s read range graph



## Orientation Readability



Best readability at 0° and 180° (i.e. Parallel to the reader antenna polarisation)  
Worst readability at 90° & 270° (i.e. Perpendicular to the reader antenna polarisation)

## Ordering code and descriptions

31KEY9004

With ALN-Higgs-3\_EU

31KFY9004

With ALN-Higgs-3\_US