



# MESONTAGS

the smarter way of identification

## Description & Features

UHF 25mm Button tag is EPC class1 Gen2 passive RFID tag designed based on PCB antenna, its durable encasement made up of PPS material ensures it's water-proofness, reliable washing cycle ability & resistance to acids .

it can withstand up to 200 washes or dry cleaning cycles of laundry from hotel, spa, retirement home, sports club laundry and linen management application.



**UHF 25mm BUTTON TAG** (Part No. : 31MEY8904)

[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 Organization	<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	Up to 50 cm (depends on reader & environment)
Data retention	50 Years
Endurance cycle	100,000 Cycles

### Physical Characteristics

Dimension	: Dia 25mm, Thickness 2.5mm
Hole dia	: 1.5mm
Encasement	: Engineering Plastic
Weight	: 2.5 gm
Color	: Black or white
Quality Testing	: 100%

### Environmental Characteristics

Ingress Protection	: IP68
Operating Temperature	: -40°C to +150°C (+180°C for short duration)
Storage Temperature	: -40°C to +85°C
Application	: Non metal
Attachment/ mounting	: sewing

### Chemical Characteristics

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

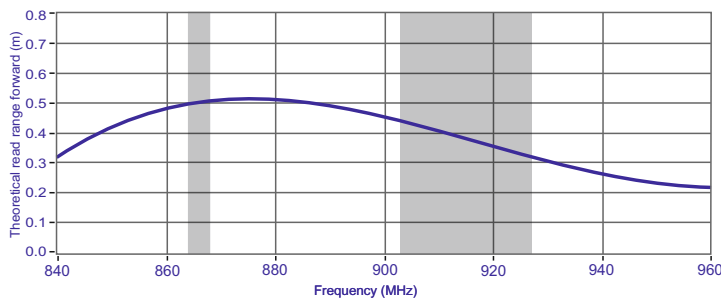
### Additional Customization

■ Encoding	: Yes
■ Logo/text/Barcode printing	: Yes

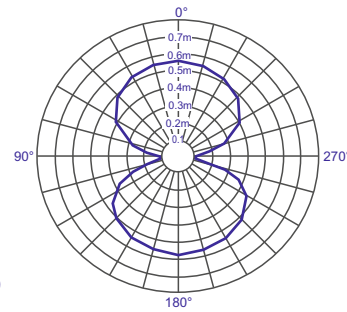
## Dimensions



## 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

31MEY8904

With ALN-Higgs-3\_EU

31MFY8904

With ALN-Higgs-3\_US