



MESONTAGS

the smarter way of identification

Description & Features

UHF Tire Spring tag is passive RFID tag developed to be sandwiched in the layers of tires during manufacturing process, 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 SPRING TAG (Part No.: 31LEY9004)

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	Alien Higgs-3 (Other upon request)
Memory Organisation	<ul style="list-style-type: none"> • EPC–96 bits, extendible to 480bits • TID – 96 bits unalterable &unique • User memory – 512 bits • Access password – 32 bits • Kill password – 32 bits
Read Range	3 - 5m (after embedded inside tire)

Data retention	50 Years
Endurance cycle	100,000 Cycles

Physical Characteristics

Dimension	: 63 x 3mm
Thickness	: 1.5mm
Encasement	: N/A
Weight	: 0.4 gm
Color	: Black and metallic
Quality Testing	: 100%

Environmental Characteristics

Ingress Protection	: IP68 (after embedded in tire)
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	: Inside tire during manufacturing

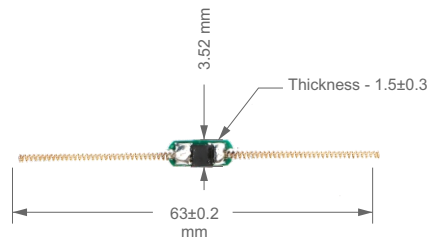
Chemical Characteristics

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

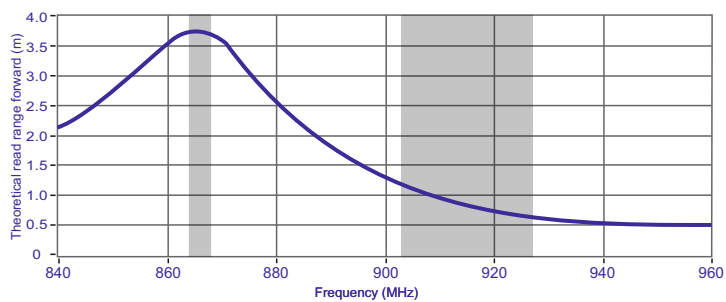
Additional Customization

■ Encoding	: Yes
■ Logo/Text/Barcode printing	: N/A

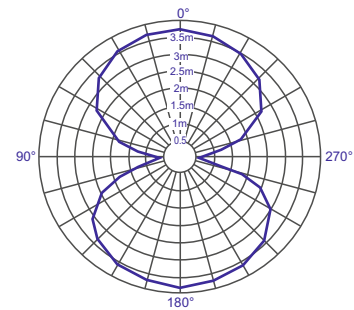
Dimensions



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

31LEY9004

With ALN-Higgs-3_EU

31LFY9004

With ALN-Higgs-3_US