



MESONTAGS

the smarter way of identification

Description & Features

UHF Knit-On tag is woven type passive RFID tag, it is fully compliant to ISO/IEC 18000-6C, EPC class 1 Gen2 protocol.

This tag is developed for apparel management & apparel anti-counterfeit application.



UHF KNIT-ON TAG (Part No. : 31SEY8601)

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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 Organization	<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	Off metal – Up to 6m (reader & environment dependent)
Data retention	50 Years
Endurance cycle	100,000 Cycles

Physical Characteristics

Dimension	: 50 X 35mm
Thickness	: 50 micron
Hole size	: 3.0 mm
Encasement	: woven fabric
Weight	: 0.2 gm
Color	: Grey
Quality Testing	: 100%

Environmental Characteristics

Ingress Protection	: IP67
Operating Temperature	: -20°C to +120°C
Storage Temperature	: -40°C to +120°C
washing duration	: 2hrs
Drying duration	: 2hrs at 100°C
Ironing duration	: up to 40 seconds
Application	: Fabric / Linen / Laundry
Attachment/ mounting	: Sewing

Chemical Characteristics

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

Chemical Characteristics

■ Encoding	: Yes
■ Logo & text printing	: Yes



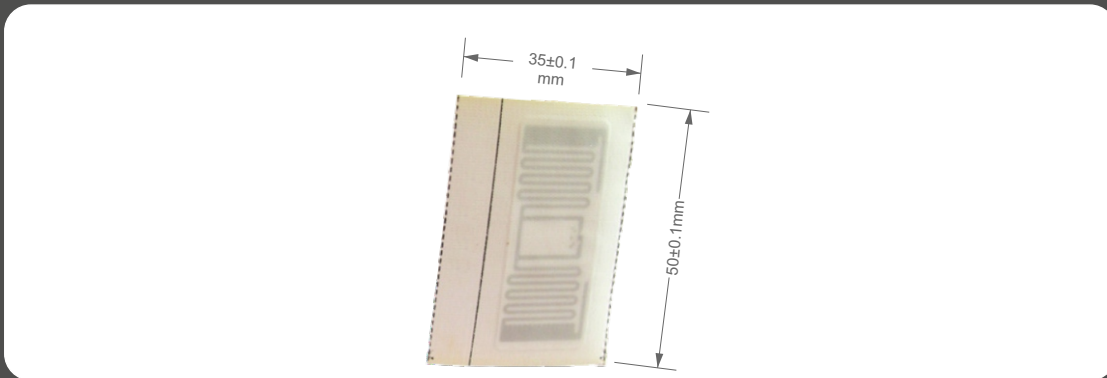
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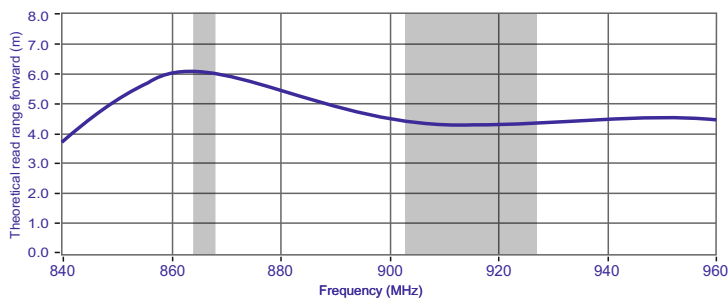
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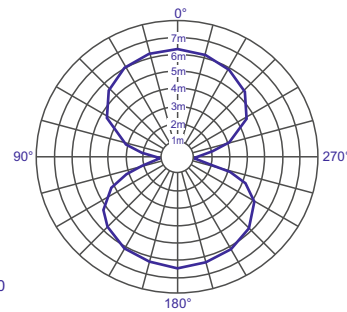
Dimensions



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

31SEY8601	With ALN-Higgs-3_EU
31SFY8601	With ALN-Higgs-3_US
31SEY8602	With ALN-Higgs-4_EU
31S2Y8602	With ALN-Higgs-4_US