



Description & Features

UHF Jewel tag is EPC class1 Gen2 passive RFID tag, it is best selection to the protection against theft and counterfeit of high value items and accessories. it can be used for access security and asset tracking purpose in industrial & logistics application too and can be customize with different IC variants and memory area depending on requirement.



UHF JEWEL TAG (Part No. : 31FEN9701)

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 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 3m (reader & environment dependent)
Data retention	50 Years
Endurance cycle	100,000 Cycles

Physical Characteristics

Dimension	: 39.5 X 18.5mm
Thickness	: 3.5mm
Hole size	: 3 x 5mm
Encasement	: ABS/PC
Weight	: 1.9 gm
Color	: Grey
Quality Testing	: 100%

Environmental Characteristics

Ingress Protection	: IP67
Operating Temperature	: -25°C to +85°C
Storage Temperature	: -25°C to +85°C
Application	: Off metal
Attachment/ mounting	: Adhesive / Cable tie

Chemical Characteristics

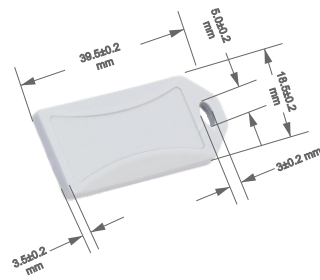
■ Resistance to salt water exposure	: Yes
■ Resistance to lubricant exposure	: Yes
■ Resistance to IPA & thinner	: Yes

Additional Customization

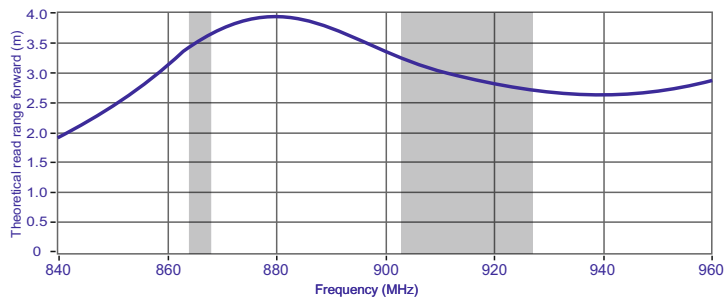
■ Encoding	: Yes
■ Logo/Text/Barcode printing	: Yes

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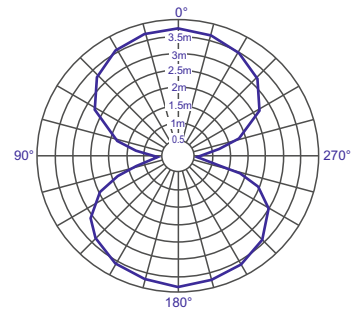
Dimensions



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

31FEN9701	With ALN-Higgs-3_EU
31FFN9701	With ALN-Higgs-3_US
31FEN9702	With ALN-Higgs-4_EU
31FFN9702	With ALN-Higgs-4_US