



MESONTAGS

the smarter way of identification

Description & Features

UHF Bit tag is passive RFID ceramic tag developed for metal application. It is fully compliant to ISO/IEC 18000-6C, EPC Class 1, Gen2 protocol.

Since it is miniature in size so best to used for industrial and medical tools / equipment's tracking & identification. It gives good read range specially on metal.



UHF BIT TAG (Part No. : 31PEY8701)

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	ALN 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	On metal - Up to 2m (depends on reader & environment)
Data retention	50 Years
Endurance cycle	100,000 Cycles

Physical Characteristics

Dimension	: 5 x 5mm
Thickness	: 3mm
Encasement	: Ceramic
Weight	: 0.4 gm
Color	: Black
Quality Testing	: 100%

Environmental Characteristics

Ingress Protection	: IP68
Operating Temperature	: -40°C to +150°C
Storage Temperature	: -40°C to +85°C
Application	: On metal / In metal
Attachment/ mounting	: Adhesive / embedding / HST sealing

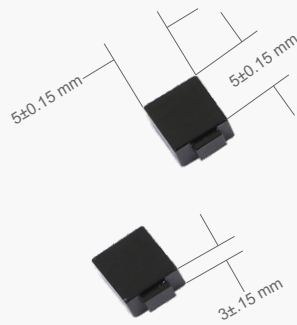
Chemical Characteristics

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

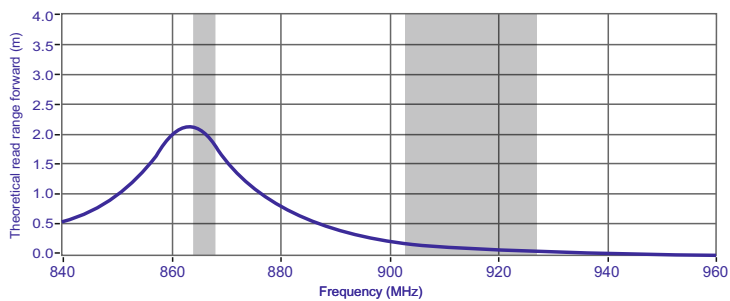
Additional Customization

■ Encoding	: Yes
■ Logo & text printing	: Yes

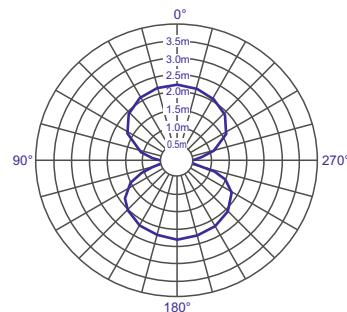
Dimensions



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

31PEY8701

With ALN_Higgs-3_EU

31PFY8701

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