



Electrical specifications

Device type

UHF RFID / EPCglobal Gen2v2

Operational frequency

Global 865-928MHz

IC type

Impinj M780™

Memory configuration

EPC 496 bit; User 128 bit; TID 96 bit

EPC Memory content

Unique random 96bit EPC in every label

Read range*

ETSI up to 13m/43ft

FCC up to 18m/59ft

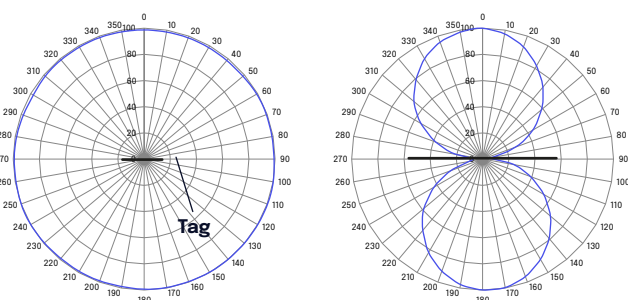
Applicable surface materials

Glass

*Read ranges are theoretical values that are calculated for non-reflective environment. Different surface materials may influence performance.



Radiation pattern



Description

Non-transferable tamper-proof label for vehicle headlamps and windshields.



Mechanical specifications

Tag materials

Back side (facing windshield): Aluminum antenna with acrylic adhesive
 - Front side (facing driver): Inkjet and thermal printable transparent PET. Resin ribbon recommended.

Weight

<1 g

Delivery format

1000 pcs on reel

Pitch on reel

22,86 mm / 0,9 in

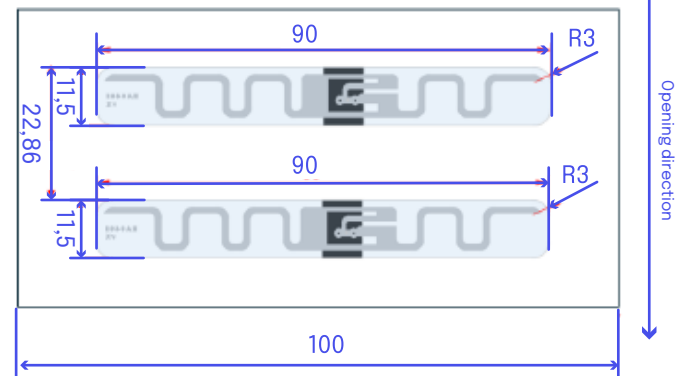
Reel core inner diameter

76 mm / 3"

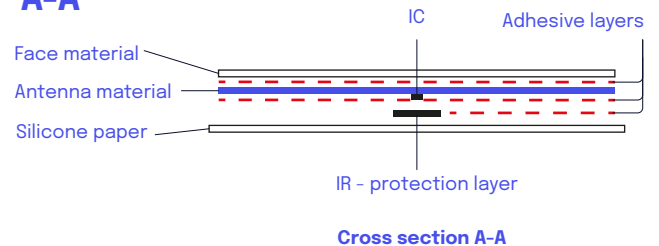
Tag dimensions

90 x 11,5 x 0,2 mm /
 3.54 x 0.45 x 0.01 in

mm



A-A





Personalization options

Pre-encoding

Customer-specific encoding of EPC or user memory. Locking permanently or with password.

Customized full color artwork

Layout can include any static artwork.

Customer-specific visual printing

Variable data like barcodes, human readable text, serial number etc.



Installation instructions

Tag polarization



Ideal installation conditions are +20°C (+68°F) / 50% RH. For exceptional conditions, please contact Beontag. Adhesive of the label will provide best adhesion in 24 hours after the installation. Bond strength can be improved with firm application pressure. Always clean and dry the surface for obtaining the maximum bond strength. Avoid touching the background adhesive.

Label antenna parts should not be in contact with metal to enable best performance of the label. Note that metallized UV-protection films have strong effect on RFID performance.

Minimum bending diameter of the Beontag Cruiser Headlamp label is defined to be 50mm. Do not bend the label below the limit. Never touch on the location of the IC. IC chip is a sensitive electrical component and can be damaged if unexpected pressure is applied on the chip.



Environmental resistance

Operating temperature

-35°C to +85°C / -31°F to +185°F

Ambient temperature

-35°C to +85°C / -31°F to +185°F

Storage condition

1 year in +20°C / 50% RH (shelf life for adhesive)

Expected lifetime

Years in normal operating conditions

Chemical resistance

No physical or performance changes in:

- 168h Salt water (salinity 10%) exposure
- 24h NaOH (10%, pH 13) exposure
- 168h Motor oil exposure
- 168h Sulfuric acid (10%, pH 2) exposure
- 168h Windshield washing fluid exposure
- 168h Antifreeze exposure
- 168h Car shampoo exposure
- 168h Gasoline exposure
- Small exposure of car wax

Values in the table are the best recommendations; resistance against environmental conditions depends on the combination of all influencing factors, exposure duration and chemical concentrations. Thus, product's final suitability for certain environmental conditions is recommended to be tested. Contact Beontag for more specific information.



Order informations

Product number: **3005369**

Product Name: **Beontag Cruiser Headlamp M780**

For other versions, additional information and technical support please contact Beontag.

BEONTAG CRUISER HEADLAMP

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From the science of graphic and label materials, RFID and wireless IoT enablers, we create solutions across the value chain to deliver digital transformation for businesses around the world.

Sustainability is at the core of what we do and we strongly believe that by substituting non-renewable materials and innovating through more sustainable and renewable products, we act as an ESG enabler for our customers' value chain.

Beontag is one of the world's leading providers of RFID and wireless IoT solutions, being present in more than 40 countries with 7 R&D centers and 2,000 employees, in constant development of technological and sustainable solutions designed to connect items, and gain efficiency and end-to-end traceability

CONTACT US FOR
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