PRODUCT DATASHEET

Beontag On-metal NFC 25x25 NTAG213

ELECTRICAL SPECIFICATION

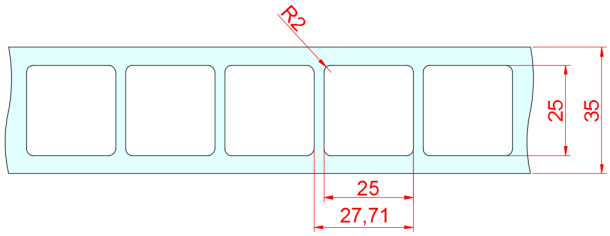
Device type
NFC Forum Type 2
Air interface protocol
ISO/IEC 14443A
Operational frequency
13,56 MHz
IC type and memory configuration
NXP NTAG213™
- 144 bytes of User memory

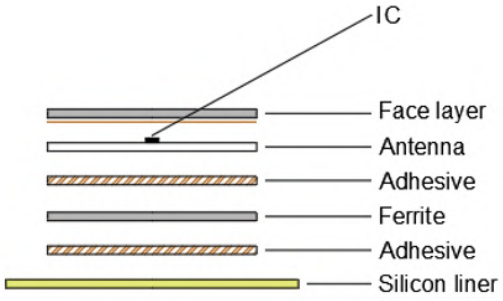
Read range (2W ERP)*
Mobile phone up to 1,5 cm
Fixed reader up to 3 cm
Applicable surface materials*
Metal

* Read ranges are theoretical values that are calculated for non-reflective environment. Different surface materials may have an effect on performance.

MECHANICAL SPECIFICATION

Label surface
Printable white synthetic paper, resin ribbon recommended.
Background adhesive
Permanent adhesive for general purpose use
Weight
< 1 g
Delivery format
1000 pcs good labels on reel, bad labels are removed.
Pitch on reel
27,71 mm / 1.091”
Reel core inner diameter
76 mm / 3”
Tag dimensions
25 x 25 x 0,45 mm / 0.98 x 0.98 x 0.018”





Cross section A - A

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
Water resistance
IP68, tested for 5 hours in 1m deep water
Chemical resistance
No physical or performance changes in:
- 168h Motor oil exposure
- 168h Salt water (salinity 10%) exposure
- 24h Sulfuric acid (10%, pH 2) exposure
- 24h NaOH (10%, pH 13) exposure
- 2h Acetone exposure

Storage condition
1 year in +20°C / 50% RH
Expected lifetime
Years in normal operating conditions

Environmental values are the best recommendations; resistance against different 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.

INSTALLATION INSTRUCTIONS

When attaching the label ensure the following
- Select a smooth surface without uneven areas below tag
- Avoid touching the background adhesive and IC location

When mounting the label with its adhesive, clean and dry the surface for obtaining the maximum bond strength.

Ideal application conditions are +20°C (68°F) / 50% RH. For exceptional conditions, please contact Beontag. Bond strength can be improved with firm application pressure. Final bond strength is achieved in 24 hours.

If the location on the asset needs to be changed, please use a new tag instead of re-placing the used one; the adhesion will suffer from the re-placement. Minimum bending diameter of the Beontag On-metal NFC 25x25 NTAG213 is defined to be 50mm. Do not bend the label below the limit.

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ORDER INFORMATION

Part number: 3005392
Product name: Beontag On-metal NFC 25x25 NTAG213

For additional information and technical support, please contact Beontag.

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