

ON-METAL HARDY 5213



Global Tag **ON-METAL HARDY_5213** is a high-performance UHF RFID tag belonging to the HARDY series, specifically designed for on-metal applications where reliable identification and extended reading performance are required.

Suitable for both indoor and outdoor environments, HARDY_5213 can be mounted directly on metal surfaces or metal objects and is ideal for the identification and tracking of industrial assets, tools, components and equipment. It can optionally be supplied with 3M adhesive, providing a simple and practical installation method.

Several customization options are available, including custom molded colors, EPC encoding, serial number engraving and additional features on request, making HARDY_5213 a versatile solution for industrial, logistics, maintenance and asset tracking applications.

MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS

Dimensions: 52x13xmm (2,05x0,51inch) / thickness: 3,5mm (0,14inch)

Mounting System: Adhesive (3M)

Weight: 5gr.

Material: PCB Material

Color: Generally black color – Available optionally any other colors

Class Protection: IP67

Storage Temperature: -55°C (for 3h) to +100°C (for 2h) / -67°F (for 3h) to +230°F (for 2h) (for any other particular request contact us)

Operating Temperature: -25°C to +85°C / -13°F to +185°F

Weather Ability: Very Good, including UV resistance and sea water

Delivery format: Singulated

Expected lifetime: Years in normal operating conditions

Chemical resistance:

No physical or performance changes in (tested up to, more hours can be):

- 200 hours Motor oil immersion
- 200 hours Salt water (salinity 10%) exposure
- 200 hours H2SO4 Sulfuric acid (10% pH 2) exposure
- 24 hours NaOH Caustic Soda (10%, PH 13) exposure
- 24 hours HCl Muriatic Acid (10%) exposure
- 24 hours Na2CO3 Soda Solvay
- 24 hours NH3 Ammoniac (5% to 25%)

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

CHIP SPECIFICATION AVAILABLE:

	UHF 860-960MHz
Device type	Class 1 Gen 2
Air interface protocol	ISO18000-63
IC Type Available	Alien Higgs3, Alien Higgs9, NXP U-Code8, NXP U-Code9 others on-request
Read Range	400cm with 2W ERP (* Tested with LRU1200 Feig Electronics© and Antennas 270x270mm with 9db gain)

CUSTOMIZATION OPTIONS:

Laser engraving: serial progressive number from database, randomize number from database text and Barcode or QRCode. Other customization on required.

Pre-Encoding: Customer specific encoding of EPC or User Memory (also from Database). Locking permanently or with password. Insert into Database TID code.

INSTALLATION MODE:

With 3M Adhesive model: when mounting the tag with adhesive background, clean and dry the surface to get the maximum bond strength.

Through the 3 holes (3mm diam.)

APPLICATION NOTE:

On-Metal Bins management: **ON-METAL HARDY** with small size but high performance can be used to track and manage bins even when they are outdoors or in harsh conditions.

On Metal Waste bin management: **ON-METAL HARDY** can be applied on-metal waste bins; with protected material and red color is visible and very rugged transponder.

Logistics, supply chain and Yard management: : **ON-METAL HARDY** is made to control container, pallets, carts, construction vehicles or again other metallic components.

Maintenance On-Metal assets: **ON-METAL HARDY** is strong tag made to improve maintenance service with easy method to install on -metal surface.

ORDER INFORMATION:

PRODUCT CODE: GT-HRDY_5213-AH3

For printing options or for produce transponder with different color or with other type of customization... contact us for more information:

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