

ON-METAL HARDY 6



Global Tag **ON-METAL HARDY_6** is the smallest UHF RFID tag in the HARDY series, specifically designed for on-metal applications where the available installation space is extremely limited. Despite its compact dimensions, it provides reliable RFID performance when mounted directly on metal surfaces.

Suitable for both indoor and outdoor environments, HARDY_6 can be installed using optional 3M adhesive or mechanically fixed through the integrated mounting holes, offering flexibility according to the application requirements.

Several customization options are available, including custom molded colors, EPC encoding, serial number engraving and additional features on request, making HARDY_6 a practical solution for small metal assets, tools, components and industrial equipment.

MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS

Dimensions: 6mm diam (0,24inch diam.) / thickness: 4mm (0,16inch)

Mounting System: Rivet Holes (two 1mm holes; one 2mm hole); Adhesive (3M)

Weight: 0,2gr.

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: Individual

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 others on-request
Read Range	70cm 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 customizations on request.

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 (n.2 1mm diam. holes; n.1 2mm diam. hole)

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.

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 a strong tag used to improve the maintenance service with easy method to be installed on -metal surface.

ORDER INFORMATION:

Standard product is made with Alien Higgs3 chip

PRODUCT CODE: GT-HRDY_6-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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