

ON METAL HT HARDY_HT6019



Global Tag **ON-METAL HIGH TEMPERATURE HARDY_HT6019** is a high-performance UHF RFID tag belonging to the HARDY series, specifically designed for on-metal applications in demanding industrial environments. Its construction provides resistance to acids and alkalis while ensuring reliable RFID performance when mounted directly on metal surfaces.

Suitable for both indoor and outdoor use, HARDY_HT6019 is ideal for the identification and tracking of metal assets, equipment and components exposed to harsh operating conditions. It can optionally be supplied with 3M adhesive, providing a simple and practical installation method.

The tag can withstand temperatures up to 150°C and is available with several customization options, including custom molded colors, EPC encoding, serial number engraving and additional features on request.

MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS

Dimensions: 60x19mm (2,36x0,75inch) / thickness: 5mm (0,20inch)

Mounting System: Adhesive (3M); screws (4mm holes)

Weight: 7gr.

Material: PCB Material

Color: Generally black color – Available optionally any other colors

Class Protection: IP67 (Totally protected against ingress of solid / Protected against short periods of immersion in water.)

Storage Temperature: -20°C to + 150°C (30min up to 230°C)

Operating Temperature: -30°C to + 100°C

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, NXP UI-Code8, NXP U-Code9 others on-request
Read Range	620cm with 2W ERP (* Tested with LRU1200 Feig Electronics© and Antennas 270x270mm with 9db gain)

CUSTOMIZATION OPTIONS:

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

Silk Printing : 2-colors printing logo

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 for obtaining maximum bond strength.

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:

Standard product is made with Alien Higgs3 chip

PRODUCT CODE: GT-HRDY_HT6019-AH3

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

Global Tag Srl – Via Zanardelli 13/A, 25062 Concesio (BS) - Italy

P +39 030 2005259

S global-tag

W www.global-tag.com

M sales@global-tag.com

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