

Maxdura[®] Ceramic

Overview

Frequency Band

UHF 860 - 930 MHz

Chip

Alien Higgs 3

Monza 4E upon request

Hard Tag Dimensions

5 x 5 mm / 0.20 x 0.20 in

10 x 5 mm / 0.39 x 0.20 in

25 x 9 mm / 0.98 x 0.35 in

25 x 25 mm / 0.98 x 0.98 in

International Standard

ISO 18000-6C, EPC Class 1 Gen 2

Industry Segments

Industrial Applications

Logistics

Automotive

Applications

Supply Chain Management

On-Metal Asset Tracking

Oil and Gas Industry



Small and durable to embed in metallic parts

Our Maxdura[®] Ceramic has been designed to embed into tiny notch of metallic parts and components and thus to achieve best read performance in metallic environments. Its small size makes it an ideally suited form factor for IT asset tracking such as backup tapes, servers, network routers, hard drives and media tapes without any human intervention. Moreover, it fits applications for inventory control, track and trace of small tools and manufacturing equipment.

This UHF RFID hard tag, member of our Maxdura[®] product family is a passive, battery-less transponder equipped with Alien Higgs-3 IC, including 512-bit user memory. It offers a flexible read/write range depending on the reader.

Maxdura[®] Ceramic housing is made of ceramic, encased with durable black paint and fulfills ingress protection IP68. It is available in four sizes from 5 x 5 mm to 25 x 25 mm and it can be easily fixed with adhesive tape.

Maxdura[®] Ceramic small sizes and durable housing structure makes the product well suited to tap the benefits of passive RFID for different industrial applications.

Technical features

Chip	Alien Higgs 3	Alien Higgs 3	Alien Higgs 3	Alien Higgs 3	Alien Higgs 3	Alien Higgs 3	Alien Higgs 3	Alien Higgs 3
EPC and User Memory	96-bit & 512-bit	96-bit & 512-bit	96-bit & 512-bit	96-bit & 512-bit	96-bit & 512-bit	96-bit & 512-bit	96-bit & 512-bit	96-bit & 512-bit
TID Memory	Available for all							
Product Code	3500217	3500218	3500219	3500220	3500196	3500197	3500198	3500199
Hard Tag Dimension	25 x 25 mm / 0.98 x 0.98 in	25 x 9 mm / 0.98 x 0.35 in	10 x 5 mm / 0.39 x 0.20 in	5 x 5 mm / 0.20 x 0.20 in	25 x 25 mm / 0.98 x 0.98 in	25 x 9 mm / 0.98 x 0.35 in	10 x 5 mm / 0.39 x 0.20 in	5 x 5 mm / 0.20 x 0.20 in
Frequency Band	UHF 865 - 868 MHz	UHF 865 - 868 MHz	UHF 865 - 868 MHz	UHF 902 - 928 MHz	UHF 902 - 928 MHz	UHF 902 - 928 MHz	UHF 902 - 928 MHz	UHF 902 - 928 MHz
Read Range	10 m on metal	3 m on metal	1 m on metal	0.8 m on metal	10 m on metal	3 m on metal	1 m on metal	0.8 m on metal
Thickness	3 mm / 0.12 in							
Housing Material	Ceramic							
Color	Black							
Quantity / Reel	100 pcs / box							
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F							
Extreme Temperature	Up to 230°C for coating temperature cycles							
Certificates	IP68 ETSI	IP68 ETSI	IP68 ETSI	IP68 ETSI	IP68 FCC	IP68 FCC	IP68 FCC	IP68 FCC

Contact information

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Warranty: Please refer to Avery Dennison standard terms and conditions: rfid.averydennison.com/termsandconditions

Care and handling: RFID inlays are sensitive to ESD. Observe standard industry practices relating to electronics / RFID to keep environmental impact and static charge to a minimum.

Applications: This product should be tested by the customer / user thoroughly under end use conditions to ensure the product meets the particular requirements. Avery Dennison does not represent that this product is fit for any particular purpose or use. Avery Dennison reserves the right to modify, change, supplement or discontinue product offerings at any time without notice. The information contained herein is believed to be reliable but Avery Dennison makes no representation concerning the accuracy or correctness of the data.

