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.
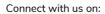
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Technical features

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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