



MAXDURA® CASE

High-Temperature Resistance for Coating Lines and Industrial Applications

SMARTRAC MAXDURA® CASE has been especially designed to meet highest temperature requirements in challenging industrial environments. It builds on SMARTRAC existing high-temperature HF hard tags to withstand up to 1,000 heat cycles. It is a very robust high-temperature hard tag, suitable for use in a holder or spacer for challenging metallic applications such as the skids used in automotive paint shop systems.

This RAIN RFID (UHF) hard tag, member of SMARTRAC's MAXDURA product family is a passive transponder based on printed circuit board (PCB). It offers high resistance to harsh environmental conditions, which in addition to high-temperatures includes mechanical stress and most chemicals. It has been designed to withstand 200°C for 60 minutes, 220°C for 45 minutes, and 240°C for 30 minutes. Furthermore, it resists acetone, 5% sodium carbonate, 5% saltwater, 5% fresh water, 5% acetic acid and 60% ethyl alcohol. In addition, vibration and shock resistance have been verified to conform to IEC 86.2.6 and IEC 68.2.29.

SMARTRAC's MAXDURA CASE provides reliable read range and excellent performance. The tags contribute to process acceleration, efficiency gains and optimized tracking and tracing of goods and parts. Due to their high resistance, they are very well suited to tap the benefits of passive RFID in harsh environments and demanding industrial applications.

SMARTRAC's inlays and tags are compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management, which ensure a reliable and state-of-the-art product that meets a variety of application needs, enhancing RFID usage for difficult-to-tag materials.

Overview

Operating Frequency

865-868 MHz (ETSI)
902-928 MHz (FCC)

Integrated Circuit (IC)

Alien Higgs 3

Dimensions

50 × 50 × 12 mm
1.97 × 1.97 × 0.47 in

Operating Temperature**

-25 to 240°C / -13 to 464°F

International Standards

- ▶ EPC Class 1 Gen 2
ISO 18000-6C
- ▶ IP68

Application Areas

- ▶ Automotive
- ▶ Industry
- ▶ Supply Chain &
Asset Management

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Technical Features	Sales Code 3006861
IC + Memory*	Alien Higgs-3, EPC 96 bit extendable up to 480 bits 512 bit user memory Data retention of 50 years, Write endurance 100,000 cycles
Tag Size	50 × 50 × 12 mm / 1.97 × 1.97 × 0.47 in
Materials & Color	TPU , other materials upon request Black, other colors upon request
Operating Temperature **	min: -25°C / -13°F to max: 200°C / 392°F for 60 minutes 220°C / 438°F for 45 minutes 240°C / 464°F for 30 minutes
Storage Temperature	-55°C to +185°C / -67°F to 365°F (Edge temperatures are guaranteed for maximum 168 hours)
IP Class	IP68
Shelf Life	20°C / 68°F, 50% RH - minimum 2 years from the date of manufacturing
Qty/Package	100 pcs. / package MOQ 1,000 pcs.

*Additional memory, protocol and product configurations are available upon request.

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