



MAXDURA® BOND

Optimized On-metal Tagging in Industrial Environments

SMARTRAC MAXDURA® BOND is a dedicated on-metal hard tag, which is attached directly to the metal surface without the need for a spacer or holder. It's a general-purpose tag, fixed to an object with an adhesive and ideally suits item-level tracking with metallic surfaces and asset management within industrial environments.

This RAIN RFID (UHF) hard tag, member of SMARTRAC's MAXDURA product family is a passive transponder based on printed circuit board (PCB) equipped with the Impinj Monza® 4QT integrated circuit (IC). It offers serial TID and memory feature with EPC 128 bit and 32-bit user memory and excellent performance over UHF tags on metal surfaces.

SMARTRAC's MAXDURA BOND contributes to process acceleration, efficiency gains and optimized tracking and tracing of goods and parts. Due to its high resistance, it is 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

860 - 960MHz (ETSI)

Integrated Circuit (IC)

Impinj Monza 4QT

Dimensions

29 × 58 × 6 mm

1.14 × 2.28 × 0.24 in

Operating Temperature

-40 °C to +85 °C /

-40 °F to 185 °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 3006308
IC + Memory*	Impinj Monza 4QT 512 bit of user memory and 128 bit EPC memory
Tag Size	29 × 58 × 6 mm / 1.14 × 2.28 × 0.24 in
Materials & Color	PP Black color material with adhesive tape Default Smartrac logo; customizable
Operating Temperature	-40 °C to +85 °C / -40 °F / 185 °F
Storage Temperature / Thermal Cycle	Temp : -40°C (5min) ~ 125°C (5min) Transition : 30 sec Total cycle : 100 cycles
Mechanical shock - EN60068-2-27	Acceleration : 90g Pulse duration = 6ms Test duration = 3 × per axes
UV Test - IEC 60068-2-5	Test Sa: Simulated solar radiation at ground level for 10 cycles of 24 hours (20 h irradiation and 4 h darkness)
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 100 pcs.

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

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