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MAXDURA® DOUGHNUT

Rugged Tag to Meet Endurance Requirements

SMARTRAC's MAXDURA® DOUGHNUT has been designed with a rugged construction for high durability on metallic surfaces. It offers excellent read range performance, especially tuned for metallic applications and can be widely used in industrial environments, like asset tracking, supply chain management, service industries, distribution logistics and manufacturing companies.

This RAIN RFID (UHF) hard tag, member of SMARTRAC's 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 DOUGHNUT housing is made of black PA6 to meet all endurance requirements for heat, harsh chemicals, painting processes and outdoor exposure. It fulfills ingress protection IP68 against dust and water intrusion to meet shop floor usage. Other plastic materials and colors are available upon request.

Due to its excellent read range and rugged construction it is very well suited to tap the benefits of passive RFID in different industrial applications.

Overview

Operating Frequency
865-868 MHz (ETSI)
902-928 MHz (FCC)
Integrated Circuit (IC)
Alien Higgs 3

Dimension
Ø 34 mm
Material and Color
PA6, Black

International Standards

- EPC Class 1 Gen 2
  ISO 18000-6C

Application Areas

- Industry
- Supply Chain &
  Asset Management

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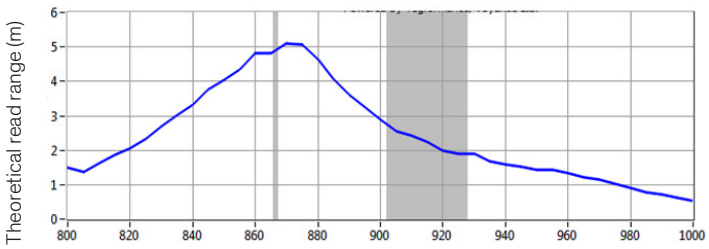
Technical Features	
IC + Memory*	Alien Higgs-3, EPC 96 bit extendable up to 480 bits 512 bit user memory Data retention of 50 years, Write endurance 100,000 cycles
Tag Size (Diameter)	Ø 34 mm, hole diameter 5.6 mm, thickness 8 mm
Weight	7.3 g
Materials & Color	PA6, other materials upon request Black, other colors upon request
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
IP Class	IP68
Qty/Package	3,000 pcs. / MOQ 6,000

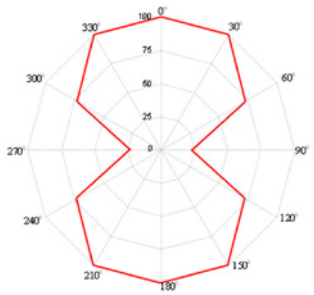
*Additional memory, protocol and product configurations are available upon request.

Frequency v/s Read Range



Frequency (MHz)

Relative Read Range vs. Orientation



Read range (%) at various angle

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