



DOGBONE® DURA

Adding Robustness to Excellent Performance on Demanding Applications

Smartrac's DOGBONE® DURA RAIN RFID (UHF) inlays and tags combine excellent performance on different materials with outstanding robustness and water resistance, making them an excellent choice for demanding global supply chain and industrial applications in harsh environments.

DOGBONE DURA comes with thick, semi-stiff thermosetting layers attached to both sides of the antenna/IC structure, providing effective protection against mechanical and environmental stresses without affecting the performance of the underlying inlay design. Moreover, the encasement provides an IP68 rating and is ATEX compatible, making DOGBONE DURA certifiable for ATEX upon request.

Tested to EN60068-2-27 (mechanical shock) and EN60068-2-6 (vibration) standards, DOGBONE DURA provides a level of durability that is comparable to hard tags while retaining its advantages in terms of cost efficiency, flexibility (reel format available) and weight.

DOGBONE DURA is available with the Impinj Monza R6-P IC that comes with an Autotune feature, which helps the DOGBONE product to work at peak efficiency, even in rapidly changing environments. DOGBONE DURA's IC enables pre-serialized EPC and offers unique TID as well as other features.

DOGBONE DURA has a white printable face material and available in wet and dry formats. Wet format tags come with water-resistant high-strength adhesive, while dry format tags have extensions to allow a punch hole for attachment.

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 - 960 MHz

Integrated Circuit (IC)

Impinj Monza R6-P

Antenna Size

94 × 24 mm (3.7 × 0.9 in)

Die-cut Size

127 × 27 mm (5.0 × 1.0 in)

International Standards

- ▶ EPC Class 1 Gen 2
- ISO 18000-6C

Application Areas

- ▶ Industrial Applications
- ▶ Logistics
- ▶ Returnable Transport
- ▶ Waterproof Applications

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Technical Features	Size	Format	Sales Code	Reel Size
IC + Memory				
Impinj Monza R6-P	94 × 24 mm / 3.7 × 0.9 in	Dry	3006914	1,000
128 bit EPC + 32 bit	94 × 24 mm / 3.7 × 0.9 in	Wet	3006915	1,000
Web Width	130 mm / 5.118 in			
Operating Temperature	-40 °C to +85 °C / -40 °F to +185 °F			
Adhesive	RA-25			
Package Size	2,000 pcs/box			
Shelf Life	+20 °C, 50 % RH 68 °F, 50 % RH from the date of manufacture 2 years			

