# Textile Anti-Gamma Ray UHF RFID Laundry Tag

**UHF**   **ISO/IEC 18000-6C**   **EPC Global Gen2V2**   ⊘   ☢   **75 x 15 mm**

## Key Features

**Operating Frequency**
UHF  845-950 MHz

**International Standard**
ISO/IEC 18000-6C, EPC Global Gen2V2

**User Memory**
1312 bits

**EPC Memory**
128 bits

**Washing Cycles**
More than 200 washing cycles, 2 years

**Operating Temperature**
-25°C to +110°C

**Anti-Gamma Ray**
Support

**Material**
Soft material safe for all skin types, including infants

## 1.      Product Overview

The Textile Anti-Gamma Ray UHF RFID Laundry Tag is made from soft textile safe for all skin types, including infants. It features the chip with advanced X-RFID® technology for a wide read range, simultaneous tag reading, and high security. Designed to endure 200 industrial wash cycles and 60 bar water pressure, it performs well in tough conditions. Each unit is 100% function tested for reliable performance, making it ideal for industrial washing, management of uniforms, medical apparel management, military clothing management, and personnel patrol management.

## 2.      Product Parameters

### 2.1 Physical Characteristics

| | |
|---|---|
| SKU | AZ-ATG-LTW-7015 |
| Material | Textile |
| Tag Dimension | 70mm x 15mm x 1.5 mm |
| Weight | About 0.6g |
| Surface Color | White |
| Mounting Method | Sewn into the hem, or into the woven label (do not sew onto the metal wire or chip module during sewing) |

## 2.2 Technical Parameters

| | |
|---|---|
| **Operating Frequency** | UHF 845-950 MHz |
| **Communication Protocol** | ISO/IEC 18000-6C, EPC Global Gen2V2 |
| **Antenna Polarization Mode** | Linear Polarization |
| **Read Range** | Up to 5 meters (ERP=2W)<br>Up to 2 meters (With iData T2 UHF handheld reader) |

## 2.3 Washing

| | |
|---|---|
| **Maximum Temperature** | 135°C (275°F) |
| **Washing** | 90°C (194°F) / 15 minutes, 200 cycles |
| **Pre-Drying in Tumbler** | Pre-drying in Tumbler: 180°C (320°F) |
| **Ironing** | 180°C (356°F), 10 seconds, 200 cycles |
| **Sterilization Process** | 135°C (275°F), 20 minutes |
| **Water Extractor Press** | Up to 60 bars |
| **Chemical Resistance** | Normal common chemicals in the washing processes |
| **Washing Cycles** | 200 washing cycles or 2 years (whichever reaches first) |

## 2.4 Chip Characteristics

| | |
|---|---|
| **User Memory** | 1312 bits |
| **EPC Memory** | 128 bits |
| **Bit-Level Physical Non-erasability** | Can be written from "0" to "1", but cannot be written from "1" to "0" |
| **Write Endurance** | 100,000 times |
| **Data Retention Time** | 100 years |
| **OTP (One Time Programming)** | Support |
| **Multi-Tags Reading** | Support |
| **Read/Write** | Support |

## 2.5 Additional Information
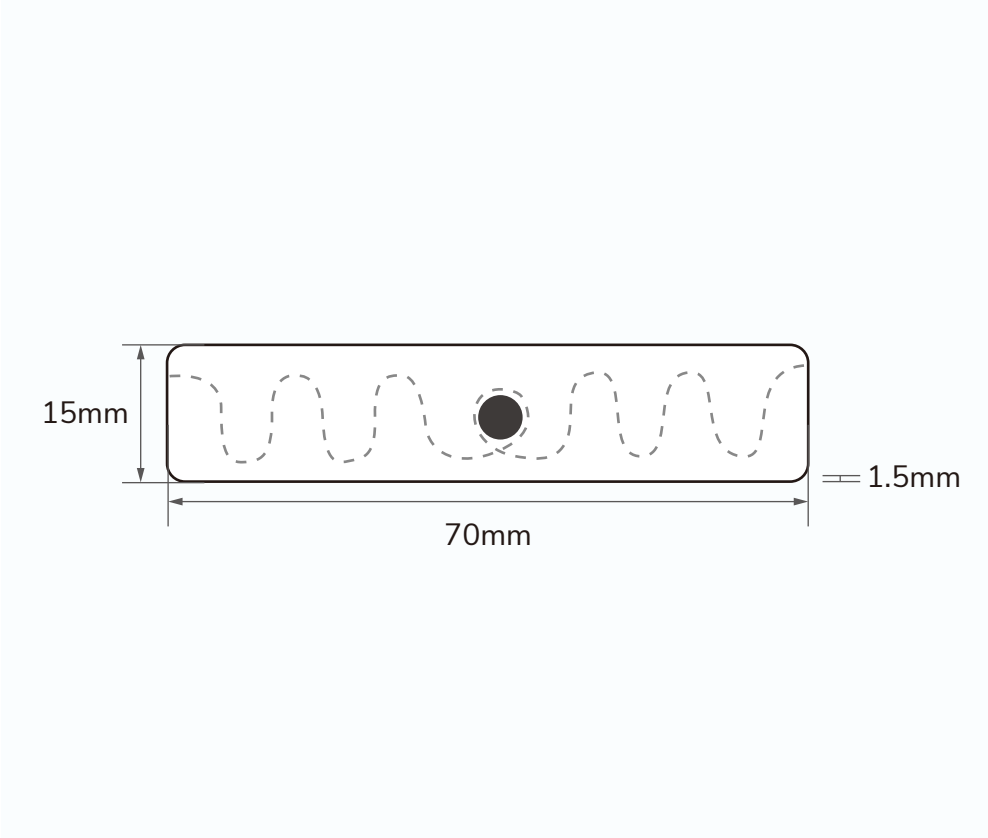
| | |
|---|---|
| **Operating Environment** | -25°C to +110°C, 5% to 95%RH |
| **Storage Environment** | +18°C to +28°C, 40% to 60%RH (recommended) |
| **Passed Tests** | RoHS, MRI, GB18401 and OEKO-Tex Std.100 Class 1 test |
| **Application** | Industrial washing, management of uniforms, medical apparel management, military clothing management, and personnel patrol management. |

## 2.6 Packaging

| Packing Format | Packed in carton |
|---|---|
| Packing Quantity | 500 pcs/bag, 20 bags/carton<br>G.W.: 6.324 Kg/carton |
| Carton Dimension | 460×220×290mm |

## 3. Size and Specification Drawing