

# UHF RFID Label 45 × 18 mm



## Compact UHF RFID Label for General Inventory and Retail Applications

The UHF RFID Label 45 × 18 mm is a compact, general-purpose RFID label operating across the global UHF band (860–960 MHz). Designed for non-metal surfaces, it provides stable read performance of up to 8 meters when used with standard handheld RFID readers.

With multiple Impinj chip options, durable PET construction, and pressure-sensitive adhesive, the RFID Label 45 × 18 mm is well suited for retail inventory, apparel tagging, packaging, and logistics identification, offering long data retention and reliable performance under typical indoor storage and operating conditions.

## Overview

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### Agreement / Protocol

EPC Global Class 1 Gen 2 /  
ISO 18000-6C

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### Frequency Band

UHF 860–960 MHz (Global)

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### Base Material

PET

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### Tag Size

45 × 18 mm

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### Antenna Size

40 × 15 mm

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### Application Surface

Non-metal surface

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### Industry Segments

- Retail & Apparel
- Logistics & Warehousing
- Inventory Management
- General Asset Identification

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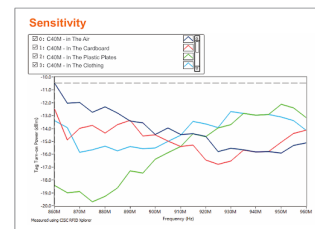
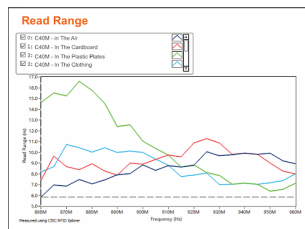
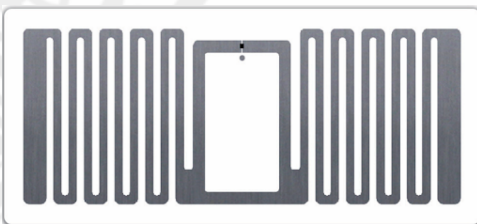
### Application

- Item-level tagging
- Carton and packaging identification
- Retail inventory tracking
- Clothing and textile labeling

## Product Features

<b>Air Interface Protocol</b>	<b>EPC Global Class1 Gen2 / ISO18000-6C</b>
<b>Operating Frequency</b>	<b>Global 860–960 MHz</b>
<b>Chip</b>	<b>Impinj M830 128-bit EPC memory</b>
<b>IC Life (Write Cycles)</b>	<b>100,000 times</b>
<b>Data Retention (Storage Time)</b>	<b>10 years</b>
<b>Reading Range</b>	<b>≥ 8 m (US standard, handheld reader 1W)</b>
<b>Application Surface</b>	<b>Non-metal</b>
<b>Operating Temperature</b>	<b>-20°C to +80°C</b>
<b>Storage Temperature</b>	<b>-20°C to +100°C</b>
<b>Storage Humidity</b>	<b>20%–90% RH</b>
<b>Shelf Life</b>	<b>&gt; 2 years (20–30°C, 40–60% RH)</b>
<b>Label Structure</b>	<b>Face material + Hot-melt adhesive + Inlay + Glassine liner</b>
<b>Installation Method</b>	<b>Adhesive label</b>
<b>Packaging</b>	<b>2500 pcs/roll (customizable)</b>
<b>Reel Inner Diameter</b>	<b>76.2 mm</b>

## Product Overview



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