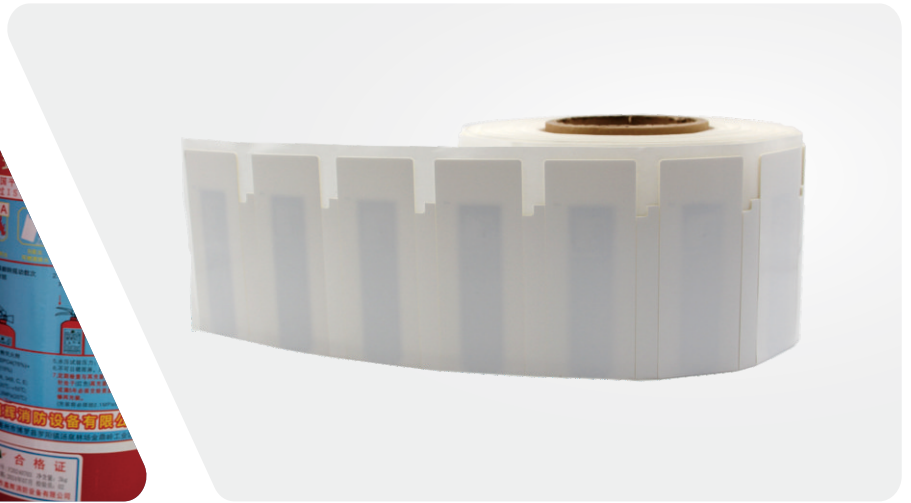




# Flmeta-Wide Ultra

100 x 40 mm

Because metal surfaces reflect UHF radio waves while liquids absorb them, standard RFID labels often suffer from signal detuning or blockage, resulting in poor performance on metal surfaces or liquid-filled containers.

Through specialized antenna design and advanced materials, RICHRFID Flmeta-Fit anti-metal and liquid labels operate reliably on metal surfaces and liquid-filled containers, while maintaining solid performance on standard non-metal and non-liquid substrates.

Fully compliant with the EPCglobal Class 1 Gen 2 (ISO/IEC 18000-6C) protocol and operating across the 860–960 MHz frequency range, the Flmeta-Fit series offers a data retention period exceeding 10 years and supports up to 100,000 write cycles. Constructed from PET, aluminum foil, and foam, they deliver exceptional tear resistance and structural durability, providing effective protection against physical damage and rupture.

Their slim profile and availability in roll form ensure seamless compatibility with RFID printers, enabling simultaneous printing and encoding.

The self-adhesive backing and inherent flexibility further enhance their versatility, allowing for reliable application on both flat and curved surfaces. Typical use cases include asset tracking for IT equipment, electronic devices, cosmetics, beverages (both alcoholic and soft drinks), industrial components, pharmaceuticals, and ESD containers, etc.

## Highlights & Benefits

- ✓ **Superior performance on diverse surfaces:** Optimized for metal, liquid-filled containers, plastic, and more.
- ✓ **Ready for RFID printing:** Fully printable and programmable with standard RFID encoders/printers.
- ✓ **Flexible and conformable:** Self-adhesive, thin, and flexible design ensures reliable adhesion on curved surfaces.
- ✓ **Durable construction:** Features a waterproof PET face material for enhanced longevity.
- ✓ **Global frequency options:** Available in ETSI (865–868 MHz) and FCC (902–928 MHz) standards.
- ✓ **Fully customizable:** Supports bespoke design, on-demand printing, and encoding services.

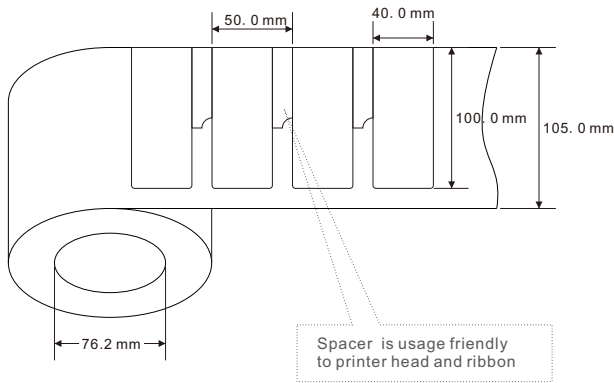
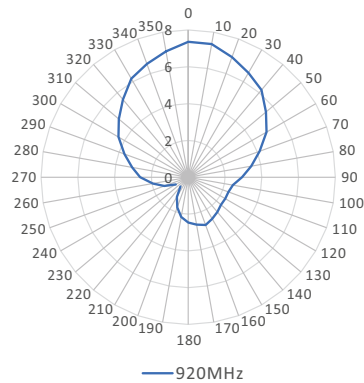
## Applications

- ✓ Facility & equipment
- ✓ Fixed asset
- ✓ Electronics
- ✓ Liquid container
- ✓ Metal parts

Technical Features

|                        |                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------|
| Model                  | RCO7017                                                                                 |
| RFID Features          |                                                                                         |
| Air Interface Protocol | EPC Class 1 Gen 2 / ISO 18000-63 Type C                                                 |
| Frequency              | 860-960 MHz                                                                             |
| Chip Type              | Impinj Monza R6P                                                                        |
| Memory                 | User - 32(64) bits; EPC - 128(96) bits; TID - 96 bits                                   |
| Data Storage           | > 10 years                                                                              |
| Re-write               | 100,000 times                                                                           |
| Read Range(2W ERP)     | FCC: > 7.0 m(22.3 ft), on metal                                                         |
| Physical Features      |                                                                                         |
| Dimension              | 100 x 40 x 1 mm / 3.94 x 1.57 x 0.04 in                                                 |
| Face Material          | White PET                                                                               |
| Operating Temperature  | -40°C to 85°C / -40°F to 185°F                                                          |
| Survival Temperature   | -40°C to 120°C / -40°F to 248°F                                                         |
| Storage Condition      | 20±5°C, 50±10% RH, Store away from sunlight                                             |
| IP Rate                | IP68, test for 5 hours at 1m deep water                                                 |
| Other Features         |                                                                                         |
| Installation           | Adhesive on clean & dry surface                                                         |
| Customization          | Printing, Encoding, Designing, etc.                                                     |
| Support Printer        | SATO CL4NX, Zebra ZT410 RFID Silverline and ZT411 On Metal, TSC Printronix T6000e, etc. |
| Recommended Ribbon     | Resin-based                                                                             |
| Package                | 300 pcs / roll, 4 rolls / box                                                           |

Radiation Pattern



PS: The performance is theoretical values in the lab and the actual effect depends on the specific applications.



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DISCLAIMER

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