

# DATASHEET

**RS-HYE44M4E-2**  
UHF RFID Dry Inlay

## KEY DATA

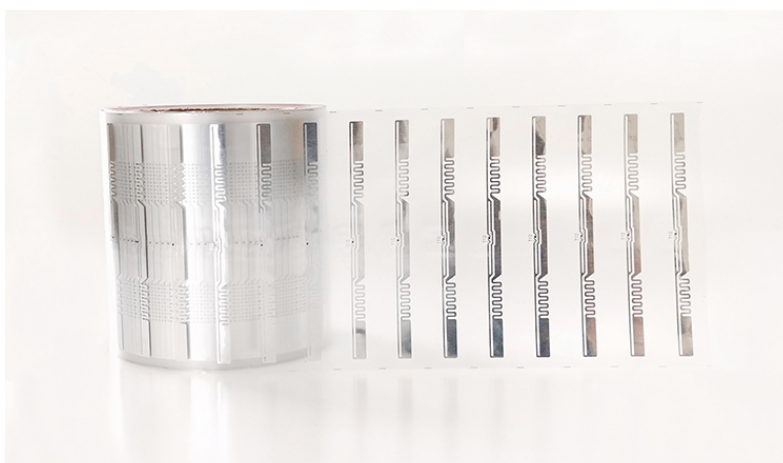
Chip: Monza M4E  
Antenna Size: 105 × 6 mm  
Format: Dry Inlay, Wet Inlay,  
White Paper



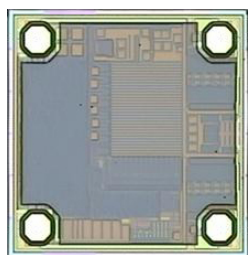
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## APPLICATION

Supply Chain & Library Management  
Warehouse Management



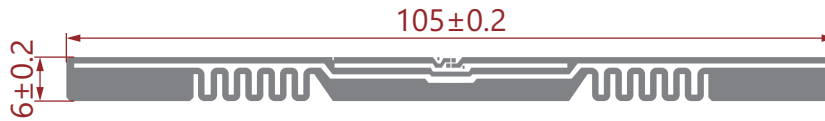
## OVERVIEW



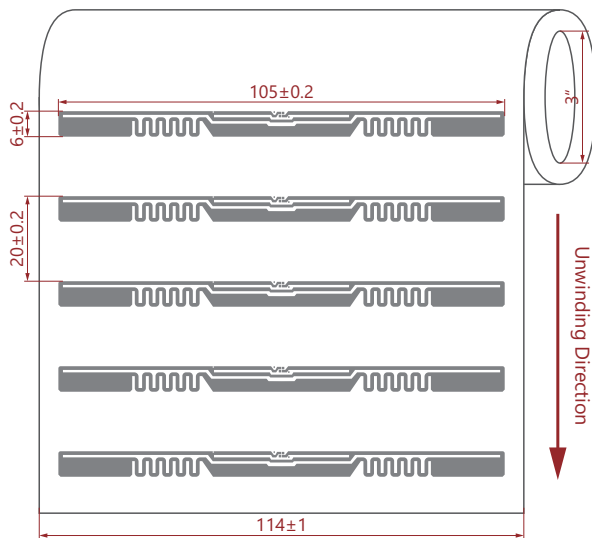
RS-HYE44M4E-2 UHF RFID Dry Inlay is built with Impinj Monza 4E.

Monza 4E tag chips offer up to 496 bits of EPC memory, 128 bits of User memory, and a serialized TID to provide fast access to a larger memory, as well as meet the needs of applications requiring greater than 96 bit EPC numbers. Monza 4E also provides True3D antenna support.

## DIMENSIONS

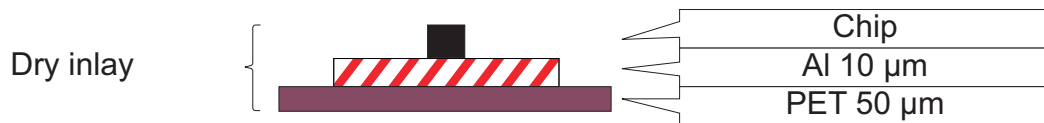


## ORIENTATION



| Physical characteristics | Dimensions  |
|--------------------------|---|
| Antenna size             | 105 × 6 mm  |
| Inlay pitch              | 20 mm   |
| PET width                | 114 mm  |
| Material thickness       | Al 10 μm + PET 50 μm  |
| Reel detail              | Web width: 114 ± 1.0 mm<br>Inner core diameter: 3"<br>(76.2 mm)<br>Core thickness: 5 ± 2 mm |

## STRUCTURE



## ELECTRICAL CHARACTERISTICS

| Item                      |          | Description  |
|---------------------------|----------|--|
| Manufacture/IC            |          | Impinj Monza 4E  |
| Base Material             |          | PET  |
| Antenna                   |          | Etched Al (10 μm) + PET (50 μm)                          |
| Protocol                  |          | RAIN RFID / ISO 18000-6C and EPC global Gen2v2 Compliant |
| Memory                    | User     | 128 bits   |
|                           | TID      | 48 bits  |
|                           | EPC      | 496 bits   |
|                           | Password | Kill Password - 32 bits                                  |
| Access Password - 32 bits |          |  |
| Frequency                 |          | 860 ~ 960 MHz  |
| Operating Mode            |          | Passive  |
| IC Life                   |          | 100,000 Programming cycles,<br>50years data retention    |
| ESD Voltage Immunity      |          | Max. 2000 V  |

## ENVIRONMENTAL REQUIREMENT

- Operating Temperature/Humidity: -5°C ~ 60°C / 20% ~ 80% RH
- Storage Temperature/Humidity: 20°C ~ 30°C / 20% ~ 60% RH
- Shelf Life: From the date of manufacture, 1 year in anti-static bag at 20°C ~ 30°C / 20% ~ 60% RH, and avoid direct sunlight exposure

## PACKAGING

Reference Packing: Static-free bag with zipper; 12000 ± 100 Pcs/roll, 4 rolls/ctn (Actual Qty as per Shipping Mark).

