



## NXP® MIFARE® Ultralight® C NFC Label

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|                 |                                                                                                     |
|-----------------|-----------------------------------------------------------------------------------------------------|
| SKU:            | RS-ULC-PET3M-5618                                                                                   |
| Chip Type:      | NXP® MIFARE® Ultralight® C                                                                          |
| Frequency Band: | HF 13.56 MHz                                                                                        |
| Protocol:       | ISO/IEC 14443-A,<br>NFC Forum Type 2                                                                |
| User Memory:    | 144 bytes                                                                                           |
| UID Memory:     | 7 bytes                                                                                             |
| Read Range:     | Up to 10 cm                                                                                         |
| Industry:       | Retail, Events, Catering,<br>Jewelry, Apparel and Fashion                                           |
| Applications:   | Inventory, Jewelleries & Sunglasses,<br>Warehouse, NFC, Product<br>Authentication, Brand Protection |

The NFC Label 56×18 mm with NXP® MIFARE® Ultralight® C offers a compact yet highly secure solution for smart identification and brand protection. Equipped with 3DES authentication and fully compliant with ISO/IEC 14443-A standards, it ensures strong data security and reliable performance. Its slim 56×18 mm format makes it easy to apply across various surfaces while maintaining excellent read efficiency.

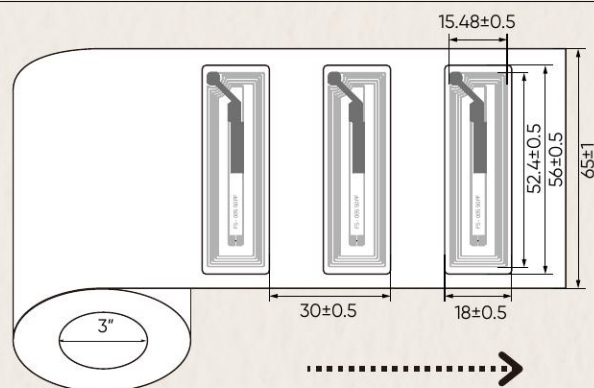
Ideal for ticketing, access management, retail branding, and product authentication, this NFC label enables fast, contactless interaction while safeguarding against counterfeiting. With seamless integration into existing NFC infrastructure, it allows businesses to enhance customer engagement, streamline operations, and deliver secure digital experiences in a cost-effective way.

|                      |                       |                                                                                                                       |
|----------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------|
| Physical Information | Material              | PET & 3M Adhesives                                                                                                    |
|                      | Label Size            | 56×18 mm                                                                                                              |
|                      | Antenna Size          | 52.4×15.5 mm                                                                                                          |
|                      | Operating Environment | -20°C~+50°C, 20%~80% RH                                                                                               |
|                      | Storage Environment   | +18°C~+28°C, 40%~60% RH                                                                                               |
|                      | Mounting Method       | Stick                                                                                                                 |
|                      | Surface               | Paper Carton, Plastic, Wood                                                                                           |
|                      | Handling Precautions  | 1. Do not bend.<br>2. Keep away from water and collision.<br>3. Labels with black-dot marks are bad ones, do not use. |

|                       |                               |                                            |
|-----------------------|-------------------------------|--------------------------------------------|
| Technical Information | Operating Frequency           | 13.56 MHz                                  |
|                       | Protocol                      | ISO/IEC 14443-A, NFC Forum Type 2          |
|                       | Chip Type                     | NXP® MIFARE® Ultralight® C                 |
|                       | Read Range                    | Up to 10 cm(depending on antenna geometry) |
|                       | Operating Mode                | Passive                                    |
|                       | Data Transfer                 | 106 kbit/s                                 |
|                       | User Memory                   | 144 bytes                                  |
|                       | UID Memory                    | 7 bytes                                    |
|                       | OTP Area                      | 32-bit                                     |
|                       | High Data Integrity           | 16-bit CRC                                 |
|                       | Fast Counter Transaction      | <10 ms                                     |
|                       | Typical Ticketing Transaction | <35 ms                                     |
|                       | Anti-Collision Function       | Yes                                        |
|                       | Security Features             | 3DES Authentication                        |

|                       |                  |                                              |
|-----------------------|------------------|----------------------------------------------|
| Packaging Information | Packing Format   | Packed in roll, vacuummed packing in ESD bag |
|                       | Roll OD          | Max. 200 mm                                  |
|                       | Core ID          | 3 inch(76.2 ± 0.50 mm)                       |
|                       | Packing Quantity | 1000 pcs/roll, weight per roll 0.215 kg      |

#### Label Dimensions (Unit: mm)



● **Performance and Illustrations:** Graphs and visuals are for reference only; actual product performance may vary depending on usage and environment. ● **Storage and Handling Guidelines:** Follow standard ESD-safe storage and handling procedures to maintain product integrity and avoid damage. ● **Product Updates and Revisions:** rfidbridge.com may change products, specs, or services at any time without prior notice. ● **General Use Disclaimer:** Products are for general-purpose use and not intended for safety-critical or life-support applications. ● **Legal Notice:** Information is believed accurate but may change rfidbridge.com is not liable for use-related issues or outcomes.