Plastic RFID Tag (13.56 MHz) — Durable NFC / HF Identification Tag

The **Plastic RFID Tag (13.56 MHz)** is a reliable, low-profile identification tag designed for short-range wireless identification, access control, asset tracking, and contactless applications. Manufactured with a robust plastic body and an embedded high-frequency (HF) chip and antenna, this tag works with any compatible 13.56 MHz reader and is an economical, long-lasting solution for environments that need secure, repeatable read/write performance.

Key Benefits

- **Works at 13.56 MHz (HF)** — compatible with standard HF RFID/NFC readers and terminals.
- **Durable plastic housing** — water-resistant, lightweight, and suitable for everyday handling.
- **Low-profile & lightweight** — easy to carry in wallets, attach to badges, or mount on equipment.
- **Fast, reliable reads** — badges read instantly at short ranges with minimal interference.

- **Customizable** — available with printing, barcode, or laser-engraving for branding or ID numbers.

Typical Specifications (varies by model)

- **Frequency:** 13.56 MHz (HF / NFC frequency band)
- **Standards supported:** ISO 14443 A / B or ISO 15693 (model dependent)
- **Chip types (examples):** NTAG, MIFARE® Classic, MIFARE® Ultralight, ICODE (memory and features depend on chosen chip)
- **Memory:** from a few dozen bytes (NFC tags) up to kilobytes (MIFARE variants)
- **Read range:** typically **0–10 cm** (depends on reader power, antenna size, and environment)
- **Material:** ABS or PVC plastic shell
- **Dimensions:** common credit-card/mini tag sizes (custom sizes available)
- **Operating temperature:** typically -20°C to +70°C (check model datasheet)
- **Durability:** splash resistant / everyday wear; optional sealed or ruggedized versions available

Note: Exact specs (chip type, memory size, supported ISO standard) depend on the chosen variant — pick the model that fits your application (access, ticketing, asset ID, etc.).

Common Uses & Applications

- **Access control & proximity badges** — secure doors, rooms, printers or equipment.
- **Time & attendance systems** — fast employee clock-in/out with contactless scanning.
- **Cashless vending / event ticketing** — use in controlled environments (readers and back-end required).
- **Asset tagging & inventory** — identify tools, devices, or consumables that require short-range reads.
- **Library systems & document tracking** — quick check-in/out and inventory audits.
- **NFC-enabled marketing & product engagement** — if tag uses NFC-compatible chip, it can trigger links or actions on smartphones.

Why Choose Plastic RFID Tags (13.56 MHz)?

Plastic HF tags offer the perfect mix of affordability, durability, and convenience for short-range applications. They are less fragile than thin paper tags, resist daily wear, and can be customized with printing or engraving for easy identification. Because they operate at 13.56 MHz, many are compatible with standard NFC smartphones and professional HF readers — enabling flexible deployments across retail, education, hospitality, and industrial environments.

Customization & Options

- **Printing:** serial numbers, logos, or full-color printing on one or both sides.
- **Encoding:** factory pre-encoding with unique IDs, URL/NDEF records (for NFC tags), or block-level data as required.
- **Holes or slots:** for lanyards, keychains, or badge clips.
- **Packaging:** bulk reels, individual packaging, or pre-programmed card packs for easy deployment.

Installation & Best Practices

- Use tags within the recommended read distance — performance declines quickly beyond a few centimeters.
- Keep metal and strong electromagnetic sources away from tag-reader paths unless using specially designed on-metal tags.
- Choose the right chip type: if you need smartphone interactions choose NFC-compatible chips (e.g., NTAG). For secure access control choose chips with authentication features (e.g., MIFARE DESFire).
- Test with your actual readers and environment before mass deployment — read range can vary with reader power and orientation.

Ordering & Support

We offer multiple variants of the **Plastic RFID Tag (13.56 MHz)** to match your use case — from low-cost NFC engagement tags to secure access-control badges. Available in bulk quantities, with options for printing, custom encoding, and sample testing prior to large orders. Technical datasheets and compatibility support are provided for system integrators and installers.