

# PRODUCT DATASHEET

## HF NFC Wet Inlay – $\Phi 25$ mm

ISO/IEC 14443 Type A | NFC Forum Type 2

**Brand / OEM:**

Soochak Bharat Technologies Private Limited

### 1. Product Overview

Soochak Bharat HF NFC Wet Inlay ( $\Phi 25$  mm) is a high-performance passive NFC inlay designed for secure identification, authentication, and smart labeling applications. Operating at **13.56 MHz**, it is fully compliant with **ISO/IEC 14443 Type A** and **NFC Forum Type 2 Tag** standards, ensuring broad compatibility with smartphones, NFC readers, and access control systems .

### 2. Mechanical Specifications

Parameter	Specification
Label Diameter	$\Phi 25 \pm 0.5$ mm
Inlay Size	$\Phi 22 \pm 0.20$ mm
Antenna Size	$\Phi 22$ mm
Label Pitch	$28.787 \pm 0.5$ mm

SOOCHAK BHARAT TECHNOLOGIES PRIVATE LIMITED

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Label Gap  $3.787 \pm 0.5$  mm

Liner Width  $35 \pm 1.0$  mm

Core ID 3 inch ( $76.2 \pm 0.5$  mm)

Roll Outer Diameter  $\leq 189$  mm

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### 3. Electrical & IC Specifications

Item	Details
NFC IC	Feiju <b>F8213</b>
Operating Frequency	<b>13.56 MHz</b>
Protocol	ISO/IEC 14443 Type A
NFC Type	NFC Forum Type 2 Tag
Operating Mode	Passive (No Battery)
UID	7 Bytes (Read-Only)

Total Memory	180 Bytes
User Memory	144 Bytes (Read/Write)
Password Memory	4 Bytes (Write-Only)
Data Retention	10 Years
Endurance	100,000 Write Cycles
ESD Protection	Up to 2000 V (HBM)

## 4. Material & Construction

- **Base Material:** PET (38 µm)
- **Antenna:** Etched Aluminum (10 µm)
- **Structure:** PET + Etched Aluminum Layers
- **Adhesive:** Industrial-grade wet inlay adhesive

## 5. Environmental Conditions

Condition	Range
Label Application	10°C to 40°C, 20–80% RH

Operating Temperature      -20°C to +50°C

Storage Life      1 Year (sealed, vacuum packed)

*Environmental performance may vary depending on the surface material and adhesive interaction .*

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## 6. Packaging Details

Item	Specification
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Packaging Format      Roll

Quantity per Roll      5,000 ± 2 pcs

Packing Method      Vacuum-sealed ESD bag

Carton Packing      12 Rolls per Carton

Core Size      3 inch

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## 7. Typical Applications

- NFC Smart Labels
- Product Authentication & Anti-Counterfeiting
- Asset Tracking
- Access Control & Identification

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- Smart Packaging
  - Inventory & Supply Chain Management
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## 8. Handling & Safety Instructions

- Do **not bend or fold** the inlay
  - Keep away from water and mechanical impact
  - Store in sealed packaging away from direct sunlight
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## 9. Compliance & Standards

- ISO/IEC 14443 Type A
  - NFC Forum Type 2
  - RoHS Compliant (on request)
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### Manufacturer / OEM

**Soochak Bharat Technologies Private Limited**  
*Smart Identification & RFID Solutions*

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