

FL6025-F

UHF Tamper-Proof Flexible On-Metal Tag

Engineered for Secure Asset Tracking in Harsh Environments



Product Overview

The FL6025-F (fragile antenna design) combines **anti-metal performance**, **tamper-evident security**, and **flexible mounting** in one ISO 18000-6C compliant solution. Its fragile antenna design ensures instant destruction upon removal, preventing asset tag duplication. Ideal for tracking metal containers, industrial equipment, IT assets, and warehouse racks on curved or irregular surfaces.

Key Specifications

Physical Parameters

Attribute	Specification
Model	FL6025-F
Construction	PET / Aluminum Foam / Foam Layer
Dimensions	60×25×1 mm (L×W×T)
Operating Temp	-40°C to +85°C

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Attribute	Specification
Storage Temp/Humidity	23±3°C / 50±15% RH
Ingress Protection	IP68 (1m depth, 5 hours)
Mounting	Pressure-sensitive adhesive

RFID Performance

Attribute	Specification
Protocol	EPC Gen2 v2 (ISO/IEC 18000-6C)
IC	Impinj Monza R6/R6P
Memory	R6: EPC-96b, TID-96b R6-P: User-32/64b, EPC-128/96b, TID-96b
Read Range (Fixed)	FCC: 6.3m on metal ETSI: 5.0m on metal
Read Range (Handheld)	FCC: 4.0m on metal ETSI: 3.0m on metal
Data Retention	> 10 years
Write Cycles	100,000

Technical Differentiation

✔ Tamper-Evident Design

Fragile antenna structure destroys functionality upon removal attempt.

✔ Curved Surface Adaptation

0.2mm flexibility conforms to pipes, cylinders, and irregular assets.

✔ Extreme Environment Resilience

Operates in freezer warehouses (-40°C) and outdoor industrial sites.

✔ High-Speed Encoding

Compatible with SATO CL4NX, Zebra ZT410, and Postek TX3r industrial printers.

Customization Options

- **Surface Printing:** Logos, barcodes, QR codes, serialization
- **Encoding:** Pre-programmed EPC/TID blocks matching your database

- **Adhesive Variants:** Chemical-resistant/VHB options for oily surfaces

Packaging & Ordering

Parameter	Detail
Core Diameter	76.2 mm (3")
Max Roll Diameter	220 mm (8.7")
Qty per Roll	500 tags
Minimum Order	1 roll (MOQ negotiable)
Lead Time	7-10 days (standard)

