

Product Overview

Because metal surfaces reflect UHF radio waves while liquids absorb them, standard RFID labels often suffer from signal detuning or blockage, resulting in poor performance on metal surfaces or liquid-filled containers.

Through specialized antenna design and advanced materials, Orange RFID **OR-OMT-6025** anti-metal and liquid labels operate reliably on metal surfaces and liquid-filled containers, while maintaining solid performance on standard non-metal and non-liquid substrates.



Highlights & Benefits

Superior performance on diverse surfaces:

Optimized for metal, liquid-filled containers, plastic, and more.

Ready for RFID printing:

Fully printable and programmable with standard RFID eprinters.

Flexible and conformable:

Self-adhesive, thin, and flexible design ensures reliable adhesion on curved surfaces.

Durable construction:

Features a waterproof PET face material for enhanced longevity.

Fully customizable: Supports bespoke design, on-demand printing, and encoding services.

DEVICE & TOOL

Tag devices and tools for tracking, calibrating management and preventing loss.



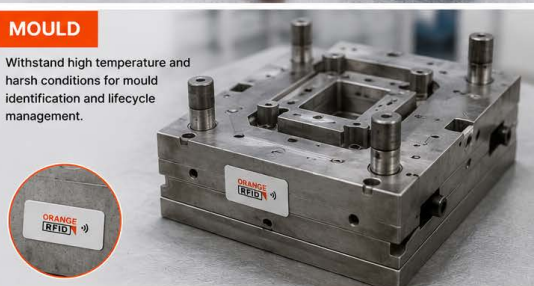
ELECTRONICS

Ideal for tracking electronic components, assemblies and high-value equipment.



MOULD

Withstand high temperature and harsh conditions for mould identification and lifecycle management.



METAL PART

Track metal parts and components through production, inventory and maintenance.



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Technical Specifications

Item	Specification
Frequency	860–960 MHz
RFID Protocol	EPC Class 1 Gen2v2
Standard	ISO/IEC 18000-63
Chip	Impinj Monza 830
EPC Memory	128 bits
User Memory	N/A
TID Memory	96 bits
Read Range	Up to 4m (reader dependent)
IC Retention	50 Years
Write Cycles	100,000

Environmental Characteristics

Item	Value
Operating Temperature	-20°C to +70°C
Storage Temperature	-40°C to +85°C
Humidity	5–95% RH
IP Rating	IP67

Packaging

Item	Specification
Tag/Roll	500 Tag /Roll
Carton Qty	Custom
Standard Core	76.2 mm
Roll Dimeter	upto 250mm

Physical Specifications

Item	Specification
Label Size	60 x 25 x 1 mm
Inlay Size	55 x 23 mm
Face Material	White PET
Adhesive	Acrylic Silicon
Liner	based 0.50 micron
Thickness	WHITE
Color Printing	THERMAL /IIJ

