



Micro Ceramic UHF On-Metal RFID Tag ID-C6009 (5 × 5 × 3 mm)

Model ID-C6009 · Brand: Identium



A 5 × 5 × 3 mm, 0.4 g ceramic UHF RFID tag that is bonded onto or embedded into metal, for surgical instruments, small tools, bearings and spare parts with almost no free surface.

KEY FEATURES

- 5 × 5 × 3 mm, 0.4 g ceramic body for very small metal items
- Up to 3.0 m on metal (ETSI) and 3.3 m on metal (FCC)
- Withstands repeated autoclave cycles and industrial chemical washes
- IP68; operates from -40 °C to +85 °C, survives -40 °C to +250 °C
- ATEX certified; meets FDA requirements for medical environments
- Alien Higgs-3 chip with 96-bit EPC and 512-bit user memory

APPLICATIONS

Surgical instruments

Small metal tools

Bearings

Auto spare parts

Weapon inventory control

Industrial asset tracking

SPECIFICATIONS

Model	ID-C6009
Frequency	UHF (ETSI / FCC)
Protocol	EPC Class 1 Gen 2 (ISO 18000-6C)
Chip	Alien Higgs-3
Memory	EPC 96-bit, user 512-bit
Read range	Up to 3.0 m on metal (ETSI) / 3.3 m on metal (FCC)
Dimensions	5 × 5 × 3 mm
Weight	0.4 g
Material	Ceramic
Mounting	Epoxy bonding or embedded
IP rating	IP68

Operating temperature	-40 °C to +85 °C
Survival temperature	-40 °C to +250 °C
Humidity	Up to 98% non-condensing
Write cycles	100,000
Data retention	Over 10 years
Certifications	ATEX; meets FDA requirements for medical environments