MINRIX · RFID LABELS

ON-METAL
UHF LABEL

30 × 15 × 1.2 mm · NXP UCODE 9



Made for metal. Built to last.

A compact passive UHF RFID label with a 1 mm foam spacer that keeps the antenna working directly on metal. It identifies steel assets reliably from up to 10 m, with a printable face for your logo, text or barcode.



Long-range UHF RFID · Works on metal · NXP UCODE 9

Printable face · Adhesive back · Durable & reliable

KEY FEATURES

UHF RFID TECHNOLOGY
Read range up to 10 m, 860–960 MHz, EPC Gen2

MADE FOR METAL
1 mm PE foam spacer isolates the antenna from the surface

NXP UCODE 9
EPC 96 bits, read / write, 100,000 write cycles

WIDE TEMPERATURE RANGE
Operates from −40 °C to +85 °C, 20–90 % RH

PRINTABLE FRONT
Matte white PET for logo, text, barcode or QR code

ADHESIVE BACK
913 tissue tape for metal and non-metal surfaces

APPLICATIONS



Pipes & flanges
Oil, gas, process



Container logistics
Doors, frames, RTIs



Warehouse racks
Uprights, beams, bins



Heavy machinery
Vehicles and fleets



Utilities
Manhole covers, valves



Industrial equipment
Pumps, compressors

TECHNICAL SPECIFICATIONS

Type	Passive UHF RFID on-metal label (U9 series)
Label size	30 × 15 mm (L × W)
Total thickness	1.2 mm (incl. liner)
Chip	NXP UCODE 9
Protocol	EPC Gen2 · ISO/IEC 18000-6C
Frequency	860 – 960 MHz (UHF)
Memory	EPC 96 bits
Read range	Up to 10 m (reader, antenna and surface dependent)
Read / write	Read and write; 100,000 write cycles
Service life	10 years
Temperature	Operating and storage −40 °C to +85 °C, 20 – 90 % RH
Construction	PET face / inlay / 1 mm PE foam / 913 tape / glassine
Mounting	Self-adhesive, metal and non-metal surfaces
Front printing	Logo, text, barcode, QR code (on request)

Typical values. Read range depends on reader, antenna, mounting surface and environment. This product sheet shows the standard configuration; the complete technical data sheet follows once the customer requirements (size, print, encoding, roll configuration) are confirmed.

DIMENSIONS (mm)



On-metal design
1.2 mm
incl. 1 mm PE foam spacer

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