



UHF RFID Medical Flag Label IDTS-MFL5530 (55 × 30 mm, UCODE 9)

Model IDTS-MFL5530 · Brand: Identium



A 55 × 30 mm UHF RFID flag label (flag tag) on a UCODE 9 chip, for test tubes, vials and small medical items. Only the lower 24 mm is adhesive and wraps the container; the upper 31 mm, carrying the chip, stands off it.

KEY FEATURES

- **UCODE 9 chip, EPC Gen2 / ISO/IEC 18000-6C, 860–960 MHz (covers India's 865–868 MHz band)**
- **Flag design: a 24 mm adhesive tail wraps the tube; the 31 mm chip end stands off it**
- 55 × 30 mm white PET label with a 20 × 40 mm aluminium-etched dry inlay
- 96-bit EPC, 96-bit TID with a 48-bit unique serial, 64 bits for kill/access passwords
- Rated –20 to +50 °C once applied; apply at 10–40 °C
- Rolls of 1,000 on a 3-inch core, vacuum-packed in ESD bags

APPLICATIONS

Blood collection tubes

Laboratory sample vials

Pathology and diagnostic labs

Hospital pharmacy vials

Tubes in sample racks

SPECIFICATIONS

Model	IDTS-MFL5530
Type	UHF RFID flag label; passive, no battery
Chip	UCODE 9
Protocol	ISO/IEC 18000-6C, EPC Class 1 Gen 2
Frequency	860–960 MHz (covers India's 865–868 MHz band)
Memory	EPC 96 bits (read/write); TID 96 bits incl. a 48-bit unique serial (read-only); kill/access passwords 64 bits in total (read/write)
Label size	55 × 30 mm (±0.5 mm), 2 mm corner radius

Adhesive area	Lower 24 mm of the label; the upper 31 mm, carrying the chip, has no adhesive to the item
Inlay	20 × 40 mm dry inlay; aluminium-etched antenna (9 µm) on 50 µm PET; part of the antenna lies in the adhesive tail
Construction	White PET face, adhesive, inlay (chip on an aluminium antenna), double-sided adhesive, 80 g release liner
Read range	Depends on the reader, antenna and item; request samples to test on your tubes
Chip endurance	100,000 write cycles; 10-year data retention
ESD	2 kV (HBM)
Application temperature	10–40 °C, 20–80 % RH
Operating temperature	–20 to +50 °C, 20–80 % RH (after application)
Shelf life	1 year from manufacture at 23 ± 5 °C and 50 ± 10 % RH, sealed, away from direct sunlight
Roll	1,000 labels per roll; 3-inch (76.2 mm) core; roll diameter up to 135 mm
Liner	65 mm wide; label pitch 33.34 mm; gap 3.34 mm
Packing	Vacuum-packed in ESD bags, 8 rolls per carton (actual quantity per shipping mark)