R3741L
RFID dual tag for logistics and retail in the apparel industry

GENERAL CHARACTERISTICS

Wet / White Wet Inlay dimensions: 46 x 36.5 mm
—Antenna dimensions: 44 x 34.34 mm
Standard pitch: 39.68 mm

Chip: EM Microelectronic Echo RAINFC Dual Frequency
Operating frequency: 13.56 MHz (HF), and 860-960 MHz (UHF)
Inlay substrate material: PET
Inlay-to-liner adhesive: SH3020 (Arconvert)
Liner material: CC62 (Arconvert)
Total thickness over chip: 170 microns

MEMORY

Shared memory and shared unique ID
Minimum 100k write cycles endurance
Minimum 10 years data retention
32-bit Shared unique ID included in:
    NFC Memory: 7 bytes UID
    EPC Memory: 96-bit TID
USER Memory: 2080-bit or 1984-bit including:
    1920 bit contiguous user data from NFC
    160 or 64 bit USER contiguous data from EPC
    128-bit or 224-bit UII/EPC encodings
    1 step encoding possible from NFC or EPC interface

HF NFC INTERFACE

RF Protocol: ISO/IEC 14443A-3 compliant tag
NFC Forum™ Type 2 compatible

UHF EPC INTERFACE

RF Protocol: ISO/IEC 18000-63 compliant
EPC™ Gen2 V2 certified

Standard web width: 110 mm
Unwind direction: Label side out

RoHS: EU Directive 2011/65 EU Compliant
Quality assurance: 100% read tested with out-of-tolerance inlay marked
Operating temperature: −40°C to 85°C

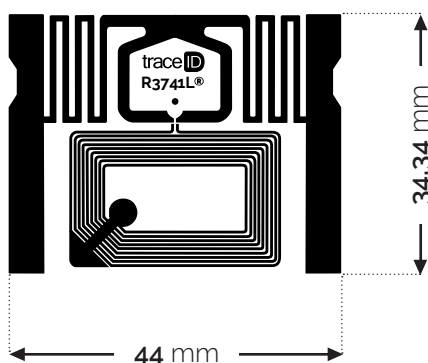## COMMON APPLICATIONS

–Product identification
–Inventory and supply chain management
–Customer engagement, coupons, and loyalty programs
–Asset control
–Single tap quick re-ordering
–Anti-theft

Minimum order quantity: 10,000 pcs. Average of units per roll: TBD.

Until now the advantages of RFID were almost exclusively exploited in supply chain management and logistics, and final retailing customers didn't notice its benefits. From now on, dual tags like R3741L extend these benefits even for retailing customers thanks to combining Near Field communication (HF-NFC) and long-range communications (UHF-EPC-RAIN RFID). **With R3741L Dual Tag, you can manage the traceability of your assets, and finally, also offer a better customer experience**.