



A552

The RFID Inlay pattern is optimized for general purpose and achieves exceptional performance in apparel and pharma applications.



Key Features

- Item Level Tracking
- Apparel tags and Pharma
- EPC Class 1 Gen 2 / ISO 18000-6C
- 96 bits EPC number, with 512 bits on-chip user memory

RF Features

Operating frequency	860~960MHz
Mode of operation	Passive (battery free)

Electrical Characteristics

Protocol	EPC Class1 Gen2/ISO 18000-6C
Memory	96 bits EPC number

Inlay Material

Antenna	Aluminum
Substrate	PET film

Inlay Roll Format/Finishing

Core inner diameter	76.2mm (3.000")
Core material	Chipboard or Favite approved material
Max roll outer diameter	300mm (11.811")

ESD & Inlay Handling

Human body model	+/- 2KV
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Environmental Specification

Shelf life	2 years @25°C / 60%RH
Temperature limits	Storage: -25°C to +50°C Operating: -50°C to +85°C
Humidity	20% to 90%RH Non-condensing
RoHS	2002 / 95 / EC compliant

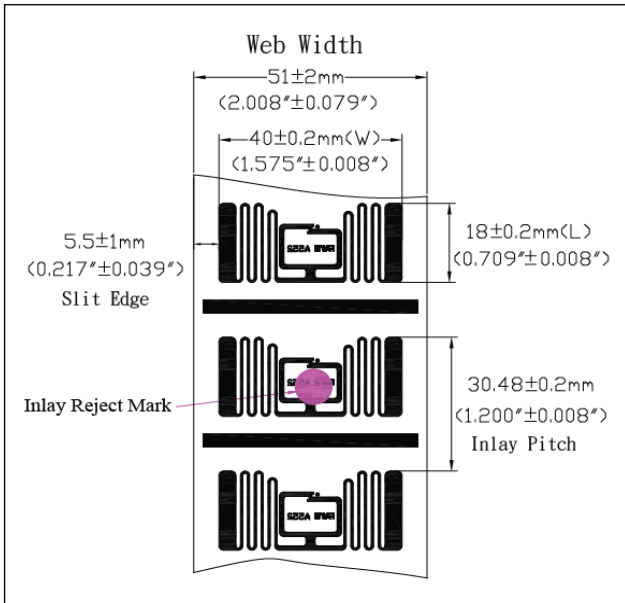
Dry Inlay Specification

Antenna dimension (W x L)	40mm x 18mm 1.575" x 0.709"
Standard pitch	30.48mm 1.200"
Web width	51mm 2.008"
Slit edge	5.5mm 0.217"
Max units per roll	18,000

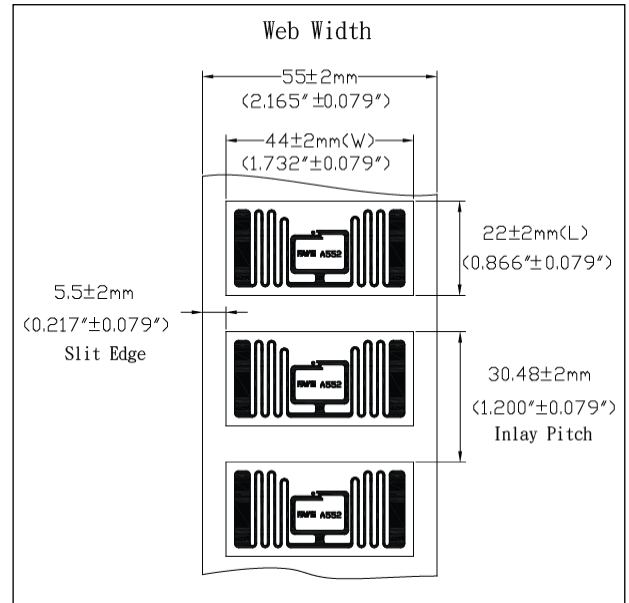
Wet Inlay Specification

Inlay dimension (W x L)	44mm x 22mm 1.732" x 0.866"
Standard pitch	30.48mm 1.200"
Web width	55mm 2.165"
Inlay to liner adhesive	Acrylic adhesive
Liner material	White glassine release paper
Max units per roll	10,000

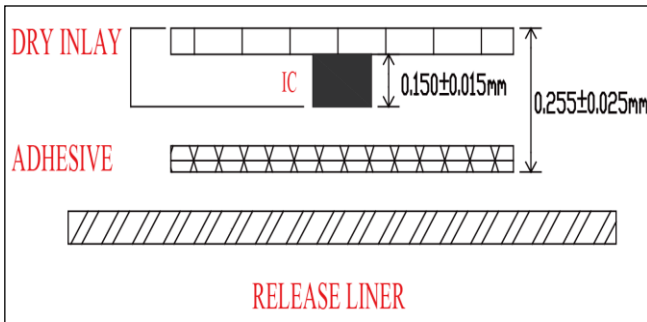
A552 Inlay Roll Dimensions



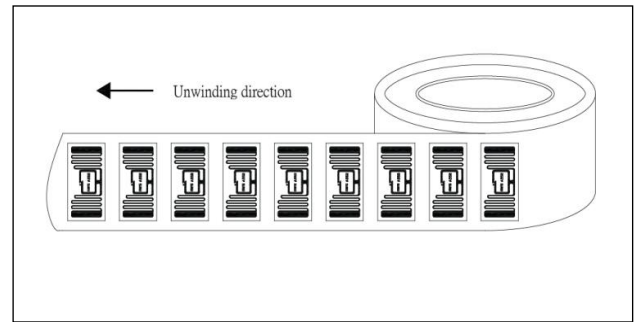
A552 Dry Inlay (IC Face Up)



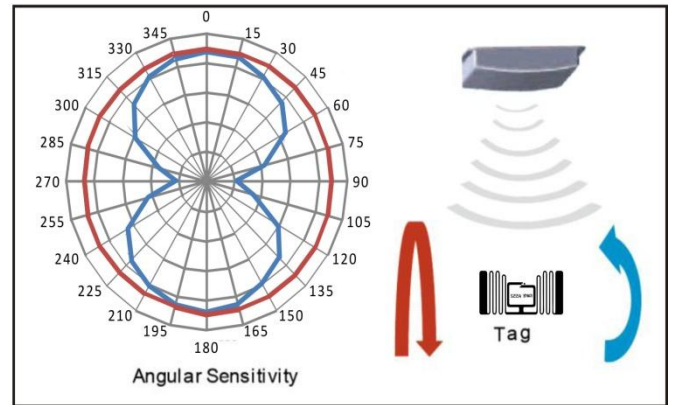
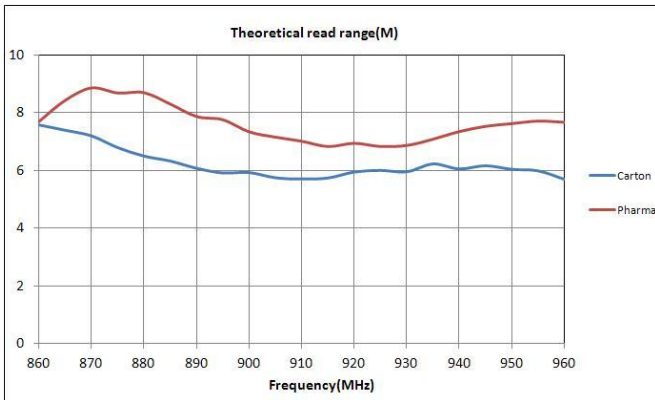
A552 Wet Inlay (IC Face Down)



A552 wet inlay construction



A552 wet inlay orientation



All information has been calculated and derived from transmitters with a 2W ERP output power level. All graphs are for general reference: performance may vary in realistic implementation.

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