



# A852

The RFID Inlay pattern is optimized for general purpose and achieves exceptional performance in multiple applications, including case tagging, pallet placards, baggage tags for asset tracking and inventory management in various industries such as apparel, logistics, manufacture, and so on.



## Key Features

- Inventory Management
- Item Level Tracking
- Supply Chain Management and Operation
- 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	2011 / 65 / EU compliant

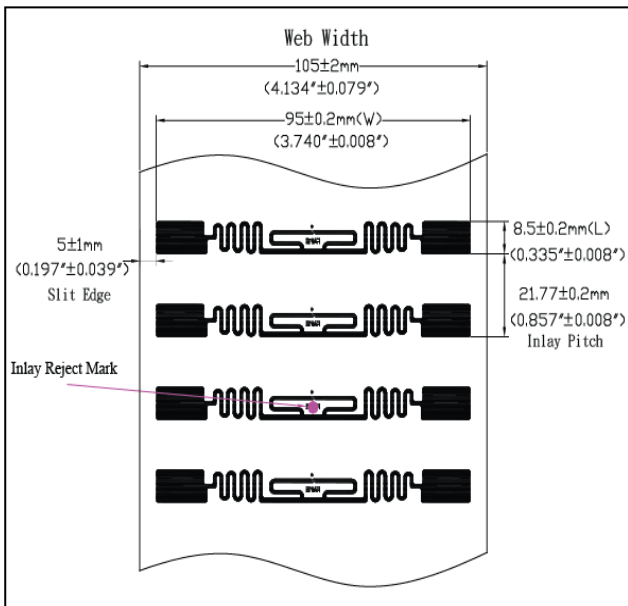
### Dry Inlay Specification

Antenna dimension (W x L)	95mm x 8.5mm 3.740" x 0.335"
Standard pitch	21.77mm 0.857"
Web width	105mm 4.134"
Slit edge	5mm 0.197"
Max units per roll	25,000

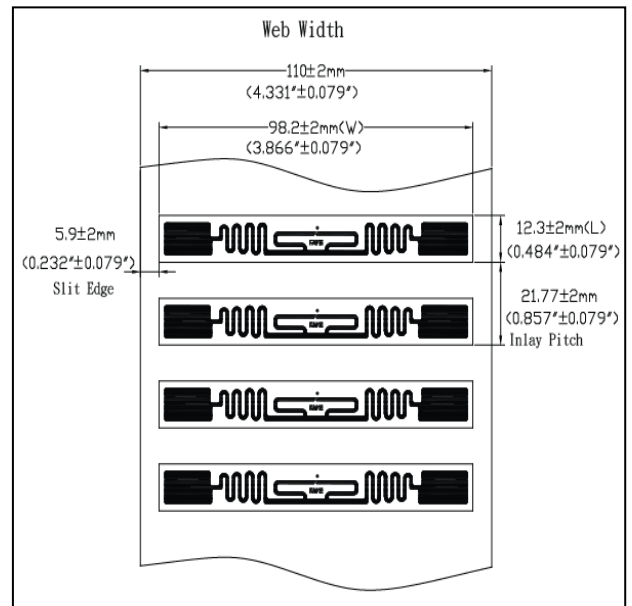
### Wet Inlay Specification

Inlay dimension (W x L)	98.2mm x 12.3mm 3.866" x 0.484"
Standard pitch	21.77mm 0.857"
Web width	110mm 4.331"
Inlay to liner adhesive	Acrylic adhesive
Liner material	White glassine release paper
Max units per roll	10,000

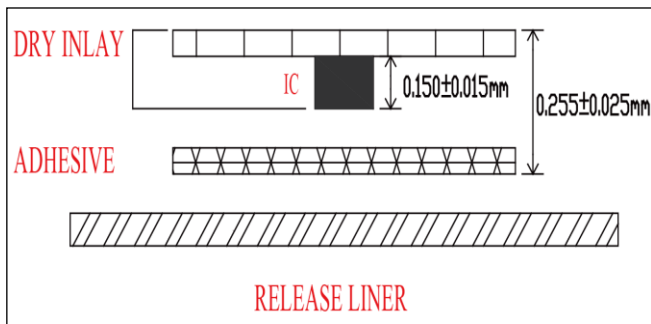
# A852 Inlay Roll Dimensions



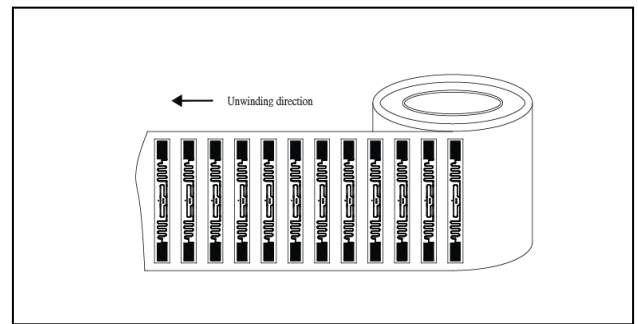
A852 Dry Inlay (IC Face Up)



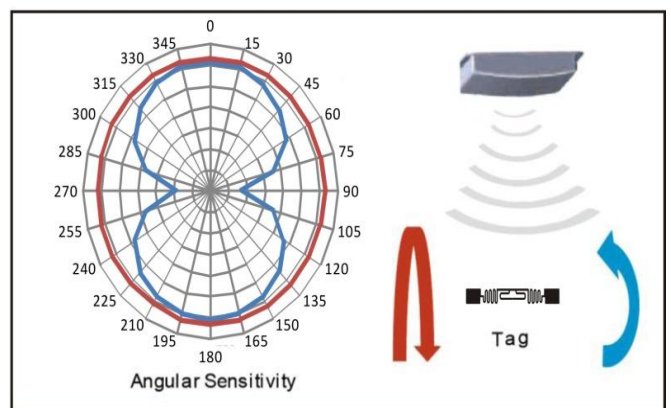
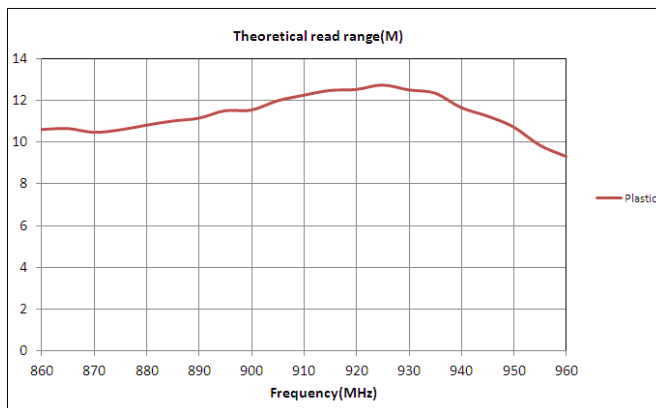
A852 Wet Inlay (IC Face Down)



A852 wet inlay construction



A852 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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 2015/07/20