



# A051

The Favite® A051“SIT” (Small Item Tag) is a small near-field inlay and optimized general purpose, perfect for ultra compact item level tagging applications where size is of outmost concern or where range must be limited.



## Key Features

- Near field reading
- EPC Class 1 Gen 2 / ISO 18000-6C
- A051-21 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	300 mm (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 / EU compliant

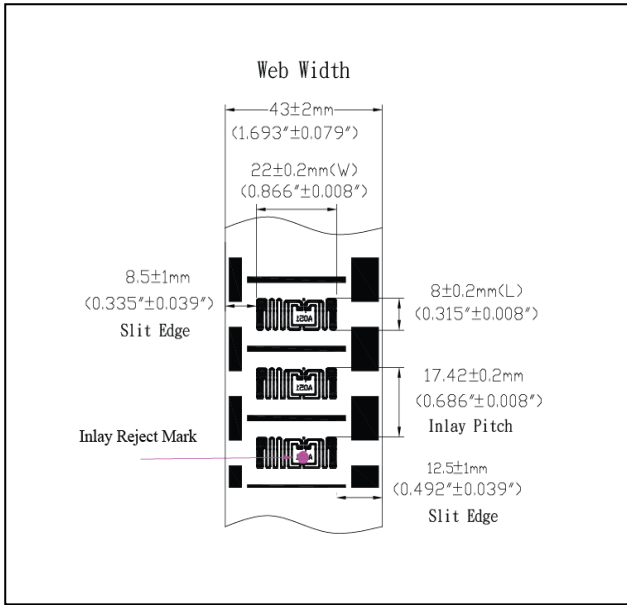
### Dry Inlay Specification

Antenna dimension (W x L)	22mm x 8mm 0.866" x 0.315"
Standard pitch	17.4171mm 0.686"
Web width	43mm 1.693"
Slit edge	8.5mm 、 12.5mm 0.335" 、 0.492"
Max units per roll	17,000

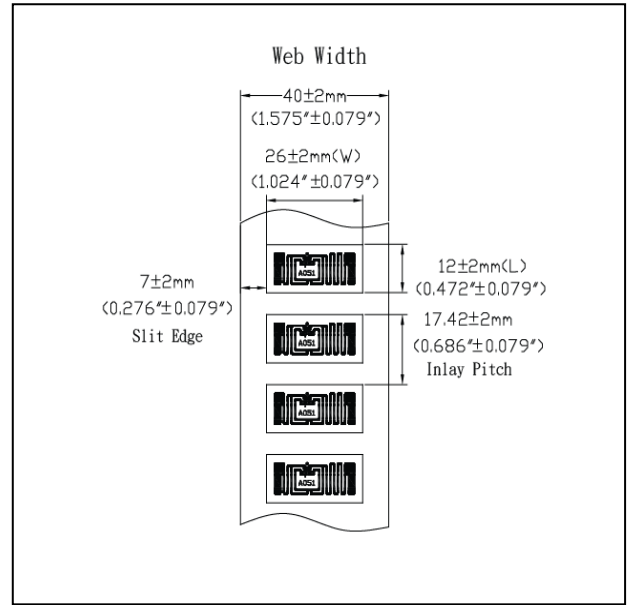
### Wet Inlay Specification

Inlay dimension (W x L)	26mm x 12mm (1.024" x 0.472")
Standard pitch	17.4171mm 0.686"
Web width	40mm 1.575"
Inlay to liner adhesive	Acrylic adhesive
Liner material	White glassine release paper
Max units per roll	12,000

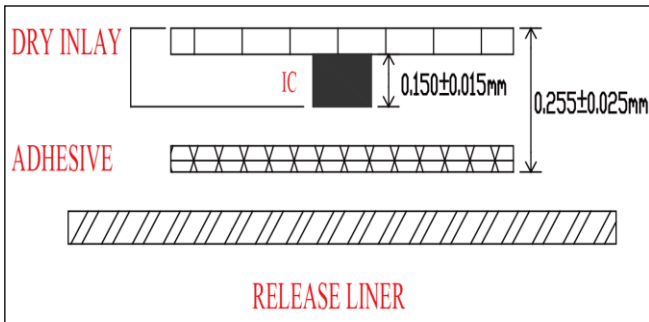
# A051 Inlay Roll Dimensions



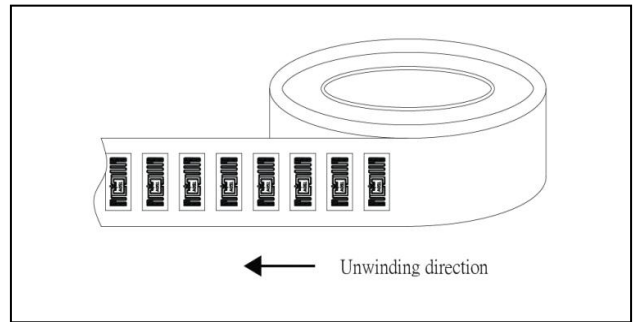
A051 Dry Inlay (IC Face Up)



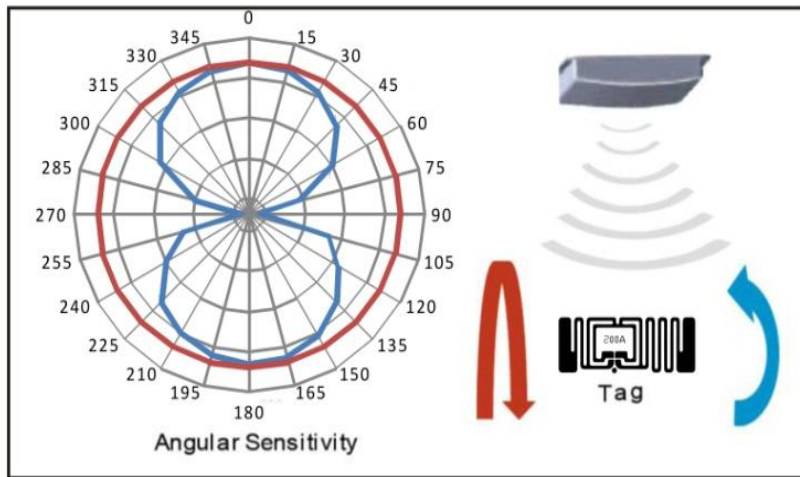
A051 Wet Inlay (IC Face Down)



A051 wet inlay construction



A051 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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