



# FT-G1213 RFID Inlays

## – NXP Airport Type

The NXP Airport Type Inlays are general purpose RFID inlays optimized for use in airline baggage tagging applications.



- > EPC Class 1 Gen2 / ISO 18000-6C
- > Exceptional read ranges and higher read rate
- > World Tag operated at global frequencies 860-960 MHz
- > Available in high-yield, high-capacity rolls for high –volume converting processes
- > NXP UCODE IC, 240-bit EPC number, with option 512-bit on-chip user memory

### RF Features

|                     |                        |
|---------------------|------------------------|
| Operating frequency | Global (860-960 MHz)   |
| Mode of operation   | Passive (battery free) |

### Electrical Characteristics

|          |   |
|----------|---|
| Protocol | EPC Class 1 Gen2 / ISO 18000-6C                           |
| Memory   | 240-bit EPC number<br>Option: 512-bit on-chip user memory |

### Inlay Material

|           |                       |
|-----------|-----------------------|
| Antenna   | Copper, 6um ± 1um     |
| UHF IC    | Silicon, 150um ± 15um |
| Substrate | PET, 50um ± 5um       |

### Inlay Roll Format/Finishing

|                         |                                       |
|-------------------------|---------------------------------------|
| Core length             | 45.0mm                                |
| Core inner diameter     | 3" (76.2mm)                           |
| Core material           | Chipboard or Favite approved material |
| Max roll outer diameter | 11.8" (300mm)                         |

### ESD & Inlay Handling

|                     |       |
|---------------------|-------|
| Human body model    | 1.5KV |
| Charged device mode | 1.5KV |

### Dry Inlay Specification

|                           |               |
|---------------------------|---------------|
| Antenna dimension (CDxMD) | 33.5mm x 80mm |
| Standard pitch            | 101.6mm       |
| Web width                 | 43.0mm        |
| Slit edge                 | 5.25mm        |
| Max units per roll        | 6,000         |

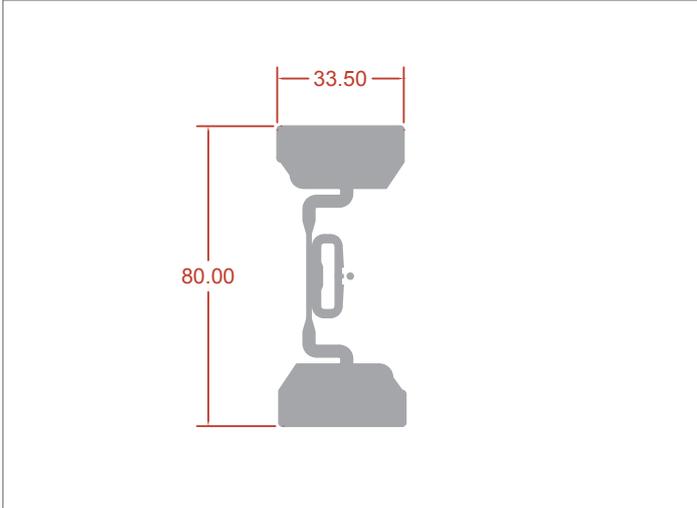
### Wet Inlay Specification

|                                     |                               |
|-------------------------------------|-------------------------------|
| Antenna substrate dimension (CDxMD) | 96.0mm x 101.6mm              |
| Standard pitch                      | 106.0mm                       |
| Web width                           | 47.0mm                        |
| Inlay to liner adhesive             | Acrylic Emulsion              |
| Liner material                      | 60um supercalendered glassine |
| Max units per roll                  | 4,000                         |

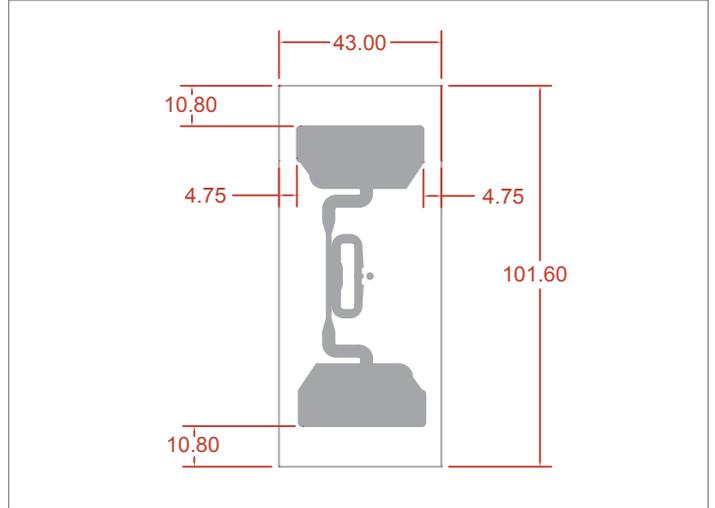
### Environmental Specification

|                       |                      |
|-----------------------|----------------------|
| Shelf life            | 2 Years              |
| Recommended storage   | -25°C to +50°C       |
| Condition             | 20% to 90%RH         |
| Operation temperature | -40°C to +65°C       |
| RoHs                  | 2002/95/EC Compliant |

## FT-G1213 Inlay General Dimensions

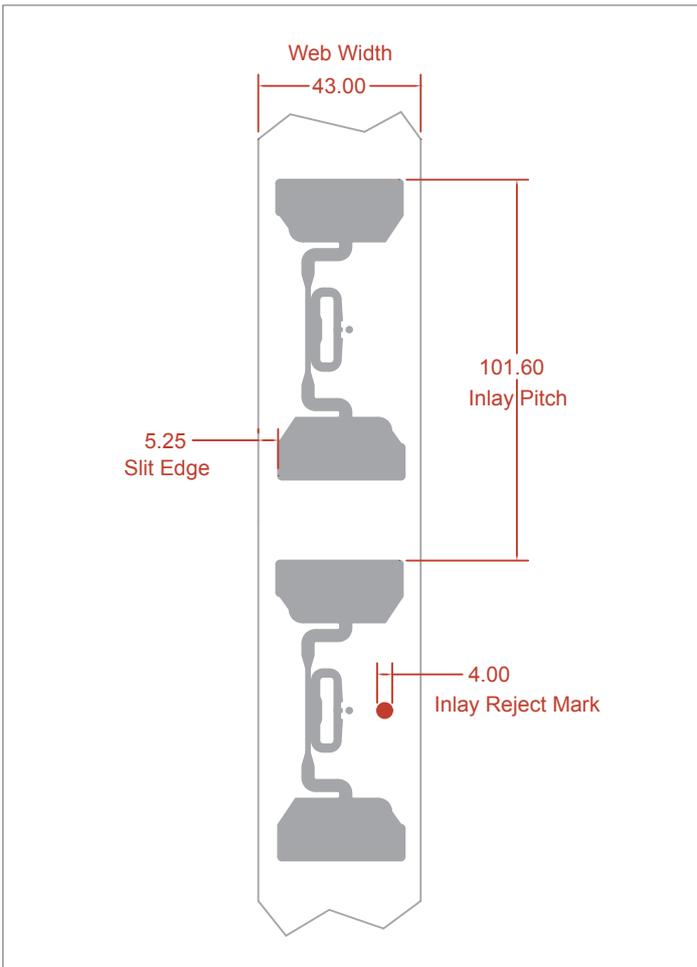


FT-G1213 (Dry Inlay)

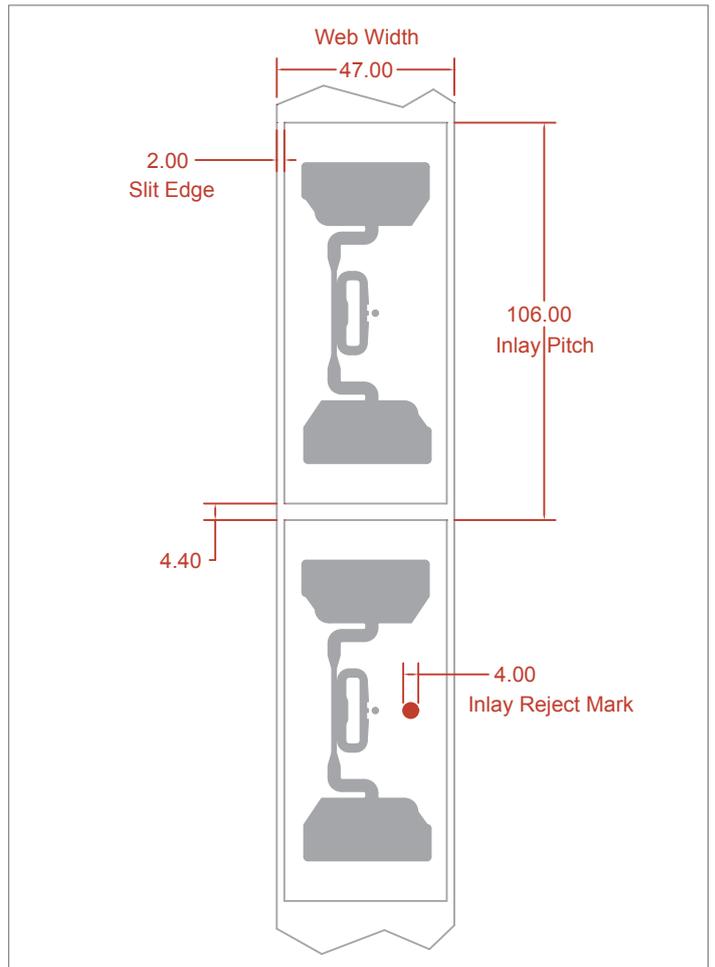


FT-G1213 (Wet Inlay)

## FT-G1213 Inlay Roll Dimensions



FT-G1213 (Dry Inlay)



FT-G1213 (Wet Inlay)

All Dimensions in mm

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