

# UHF Adhesive Label

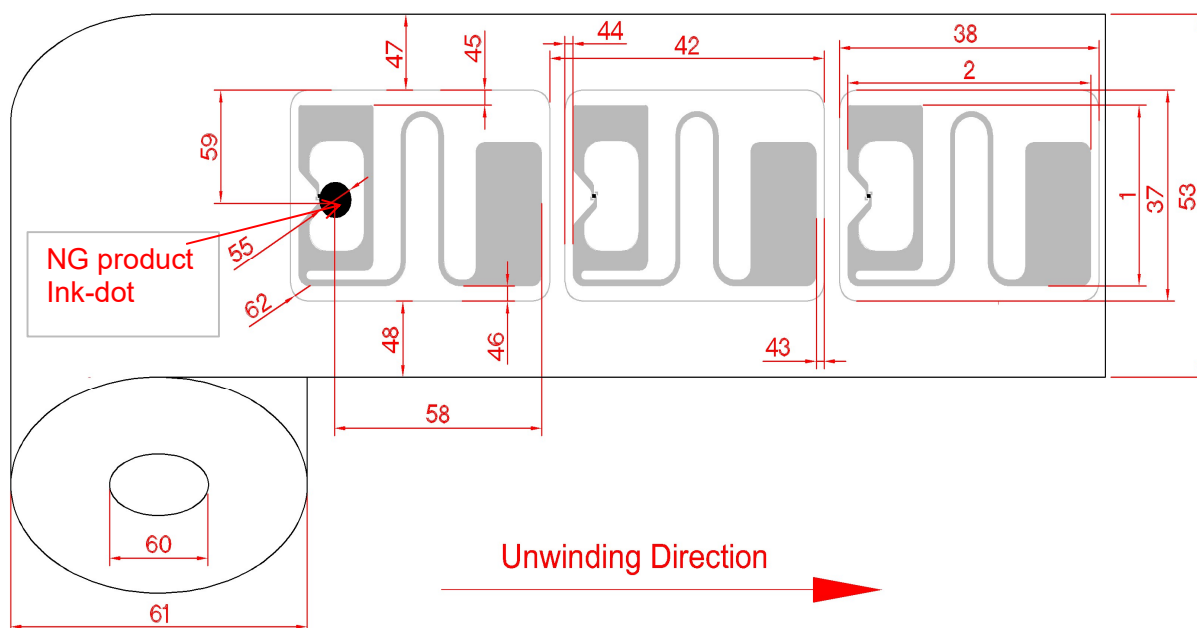
(Item : Alien REF 9627 AL04803551U)

## 1. Performance Specifications

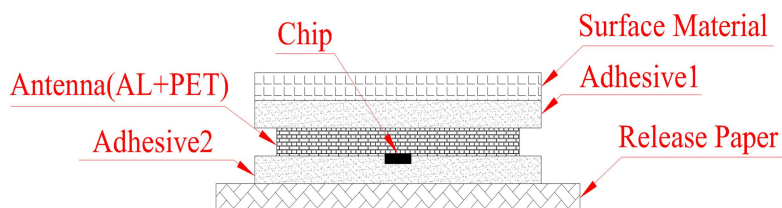
|                     |                                                                  |                            |
|---------------------|------------------------------------------------------------------|----------------------------|
| RFID Chip           | Alien H3                                                         |                            |
| Protocol            | ISO/IEC 18000-6C, EPCglobal Class 1 Gen 2                        |                            |
| Operating Frequency | 860~960MHz                                                       |                            |
| Operating Mode      | Passive(Battery free)                                            |                            |
| Memory              | 64 bit TID, 96 bit EPC, 512 bit User Memory                      | 32Bits Access, 32Bits Kill |
| IC Life             | 100,000 Programming cycles, 10 years data retention              |                            |
| Benefits            | Average reading distance > 2m (Reader and Environment Dependent) |                            |

## 2. Mechanical Dimensions

| NO. | Item                                | Parameter(mm)                                    | Tolerance | Parameter(in.) |
|-----|-------------------------------------|--------------------------------------------------|-----------|----------------|
| 1   | Antenna Width                       | 30.00 mm                                         | ± 0.20 mm | 1.181 in.      |
| 2   | Antenna Length                      | 45.00 mm                                         | ± 0.20 mm | 1.772 in.      |
| 37  | Label Width                         | 35.00 mm                                         | ± 0.20 mm | 1.378 in.      |
| 38  | Label Length                        | 48.00 mm                                         | ± 0.50 mm | 1.890 in.      |
| 42  | Label Pitch                         | 50.80 mm                                         | ± 1.00 mm | 2.000 in.      |
| 43  | Antenna Edge to Label Edge (Left)   | 1.50 mm                                          | ± 1.50 mm | 0.059 in.      |
| 44  | Antenna Edge to Label Edge (Right)  | 1.50 mm                                          | ± 1.50 mm | 0.059 in.      |
| 45  | Antenna Edge to Label Edge (Top)    | 2.00 mm                                          | ± 1.50 mm | 0.079 in.      |
| 46  | Antenna Edge to Label Edge (Bottom) | 2.00 mm                                          | ± 1.50 mm | 0.079 in.      |
| 47  | Label Edge to Liner Edge (Top)      | 13.00 mm                                         | ± 1.50 mm | 0.512 in.      |
| 48  | Label Edge to Liner Edge (Bottom)   | 13.00 mm                                         | ± 1.50 mm | 0.512 in.      |
| 53  | Liner Width                         | 60.00 mm                                         | ± 1.00 mm | 2.362 in.      |
| 55  | Ink-dot Size                        | 4.00 mm                                          | ± 2.00 mm | 0.157 in.      |
| 58  | Ink-dot to Product Edge(Right)      | 41.12 mm                                         | ± 2.00 mm | 1.619 in.      |
| 59  | Ink-dot to Product Edge(Top)        | 15.00 mm                                         | ± 2.00 mm | 0.591 in.      |
| 60  | Core inner diameter                 | 76.20 mm                                         | ± 1.00 mm | 3.000 in.      |
| 61  | Reel Outer diameter                 | ≤ 210 mm (Based on the actual shipment quantity) |           |                |
| 62  | Label Corner Radius                 | 3.18 mm                                          | ± 0.20 mm | 0.125 in.      |



### 3. Label Structure



|                  |                      |                                        |
|------------------|----------------------|----------------------------------------|
| Surface Material | White art paper      | 80g/m <sup>2</sup> ± 10%, 72μm ± 10%   |
| Adhesive 1       | Acrylic emulsion     | 19g/m <sup>2</sup> ± 5g/m <sup>2</sup> |
| Antenna          | Aluminum etching     | AL + PET (10μm + 50μm)                 |
| Adhesive 2       | Acrylic emulsion     | 19g/m <sup>2</sup> ± 5g/m <sup>2</sup> |
| Release Paper    | White glassine paper | 61g/m <sup>2</sup> ± 10%, 55μm ± 10%   |

### 4. Environment Requirement

|                                |                                                   |  |
|--------------------------------|---------------------------------------------------|--|
| Operating Temperature/Humidity | -0~60℃ / 20%~80% RH                               |  |
| Storage Temperature/Humidity   | 20~30℃ / 20%~60% RH                               |  |
| Shelf Life                     | 1 year in anti-static bag at 20~30℃ / 20% ~60% RH |  |
| ESD Voltage Immunity           | 2 kV (HBM)                                        |  |
| Bending Diameter               | > 50mm                                            |  |

### 5. Delivery Details

|                  |                                    |                                       |
|------------------|------------------------------------|---------------------------------------|
| Appearance       | Single row reel form               |                                       |
| Quantity         | 3000 ± 100pcs/Roll; 8 Rolls/Carton | Based on the actual shipment quantity |
| Weight           | To be determined                   |                                       |
| Final inspection | 100 %, known faulty ones marked    |                                       |
| Delivery yield   | ≥ 99%                              |                                       |

Packaging  
Photograph



**AllGood-Group reserves the right for modifying the specification data without notice in advance!**

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