

## UHF Dry inlay

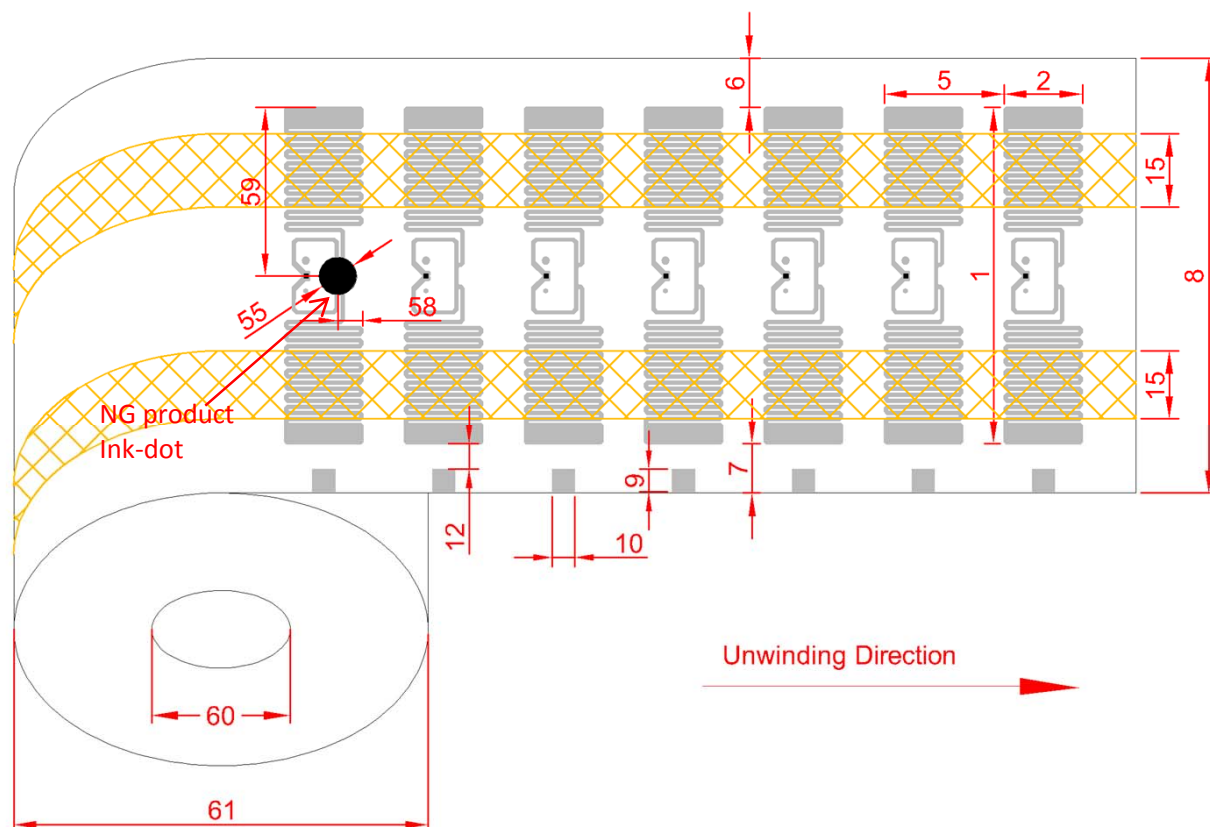
(Item : AN044010E1U-B6)

### 1. Performance Specifications

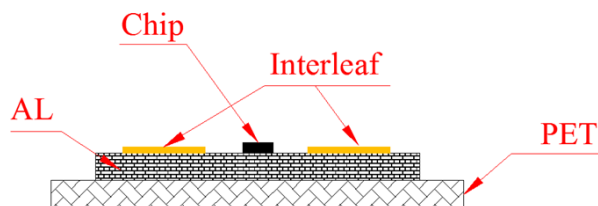
|                     |                                                                  |                           |
|---------------------|------------------------------------------------------------------|---------------------------|
| RFID Chip           | Impinj/Monza R6                                                  |                           |
| Protocol            | ISO/IEC 18000-6C, EPCglobal Class 1 Gen 2                        |                           |
| Operating Frequency | 860~960MHz                                                       |                           |
| Operating Mode      | Passive(Battery free)                                            |                           |
| Memory              | 48bit TID, Up to 96 bit EPC, 0 bit User Memory                   | 32Bits Access,32Bits Kill |
| IC Life             | 100,000 Programming cycles, 50 years data retention              |                           |
| Read distance       | Average reading distance > 3m (Reader and Environment Dependent) |                           |

### 2. Mechanical Dimensions

| NO. | Item                           | Parameter(mm)                         | Tolerance | Parameter(in.) |
|-----|--------------------------------|---------------------------------------|-----------|----------------|
| 1   | Antenna Width                  | 44.45 mm                              | ± 0.20 mm | 1.750 in       |
| 2   | Antenna Length                 | 10.33 mm                              | ± 0.20 mm | 0.407 in       |
| 5   | Antenna Pitch                  | 15.88 mm                              | ± 0.50 mm | 0.625 in       |
| 6   | Antenna to PET (Top)           | 6.53 mm                               | ± 1.00 mm | 0.257 in       |
| 7   | Antenna to PET (Bottom)        | 6.53 mm                               | ± 1.00 mm | 0.257 in       |
| 8   | PET Width                      | 57.50 mm                              | ± 1.00 mm | 2.264 in       |
| 9   | Mark Width                     | 3.00 mm                               | ± 1.00 mm | 0.118 in       |
| 10  | Mark Length                    | 3.00 mm                               | ± 0.20 mm | 0.118 in       |
| 12  | Mark to Antenna (Bottom)       | 3.38 mm                               | ± 0.20 mm | 0.133 in       |
| 15  | Interleaf Width                | 15.00 mm                              | ± 1.00 mm | 0.591 in       |
| 55  | Ink-dot Size                   | 6.00 mm                               | ± 2.00 mm | 0.236 in       |
| 58  | Ink-dot to Product Edge(Right) | 3.30 mm                               | ± 2.00 mm | 0.130 in       |
| 59  | Ink-dot to Product Edge(Top)   | 22.22 mm                              | ± 5.00 mm | 0.875 in       |
| 60  | Core inner diameter            | 153.42 mm                             | ± 1.00 mm | 6.040 in       |
| 61  | Reel Outer diameter            | Based on the actual shipment quantity |           |                |



### 3. Dry inlay Structure



|             |                              |                              |
|-------------|------------------------------|------------------------------|
| Chip        | Silicon                      | 110 $\mu$ m $\pm$ 10 $\mu$ m |
| Antenna AL  | Aluminum etching             | 10 $\mu$ m $\pm$ 3 $\mu$ m   |
| Antenna PET | Transparent PET              | 50 $\mu$ m $\pm$ 3 $\mu$ m   |
| Interleaf   | Kraft (Chip protected paper) | 50 ~ 60 $\mu$ m              |

### 4. Environment Requirement

|                                |                                                                            |  |
|--------------------------------|----------------------------------------------------------------------------|--|
| Operating Temperature/Humidity | -0 $\sim$ 60 $^{\circ}$ C / 20% $\sim$ 80% RH                              |  |
| Storage Temperature/Humidity   | 20 $\sim$ 30 $^{\circ}$ C / 20% $\sim$ 60% RH                              |  |
| Shelf Life                     | 1 year in anti-static bag at 20 $\sim$ 30 $^{\circ}$ C / 20% $\sim$ 60% RH |  |
| ESD Voltage Immunity           | 2 kV (HBM)                                                                 |  |
| Bending Diameter               | > 50mm                                                                     |  |

### 5. Delivery Details

|                  |                                          |                                       |
|------------------|------------------------------------------|---------------------------------------|
| Appearance       | Single row reel form                     |                                       |
| Quantity         | 20500 $\pm$ 500 pcs/Roll; 2 Rolls/Carton | Based on the actual shipment quantity |
| Weight           | To be determined                         |                                       |
| Final inspection | 100 %, known faulty ones marked          |                                       |
| Delivery yield   | $\geq$ 99%                               |                                       |

Packaging  
Photograph



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

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