

UHF RFID Inlays

# AD-160u7



**Dimensions:**

**Operating Frequency:** Global (860 - 960MHz)

**RF Protocol:** ISO-18000-6C, EPC Class 1, Gen 2

**Chip:** NXP UCODE 7

**EPC Memory:** 128 bit

**TID Memory:** 96 bit, pre- encoded for multi- vendor chip (MCS) based serialization, factory programmed

**Common Applications:**

- Apparel and Retail
- Cosmetic

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| Part Number                                 | 600481  | 100286  |
|---|---|---|
| Format                                      | Dry Inlay [4- up]                                     | Label   |
| Antenna dimensions (CDxMD)                  | 2.36 x 0.158 in [60 x 4mm]                            | 2.36 x 0.158 in [60 x 4mm]                            |
| Die- cut dimensions                         | N/ A  | 2.52 X 0.236 in [64 X 6mm]                            |
| Inlay substrate material                    | PET   | PET   |
| Inlay- to- liner adhesive                   | N/ A  | S-490 (FASSON)  |
| Liner material                              | N/ A  | 40# SCK   |
| Face sheet                                  | N/ A  | White Bopp  |
| Standard pitch                              | 1.0 in [25.4mm]                                       | 1.0 in [25.4mm]                                       |
| Standard web width                          | 13.5 in [342.9mm]                                     | 2.77 in [70.35mm]                                     |
| Total thickness over chip                   | 7 - 8 mils [177.8 - 203.2 microns]                    | 10 - 13 mils [254 - 330.2 microns]                    |
| Operating temperature                       | -40 to 185 F [-40 to 85 C]                            | -40 to 185 F [-40 to 85 C]                            |
| RoHS  | EU Directive 2011/65 EU Compliant                     | EU Directive 2011/65 EU Compliant                     |
| Quality assurance                           | 100% read tested with out- of- tolerance inlay marked | 100% read tested with out- of- tolerance inlay marked |
| Un- wind direction                          | Inlay- side Out                                       | Label side out  |
| Core size with adaptor insert               | 6 in [152.4mm]  | 3 in [76.2mm]   |
| Maximum roll outer diameter (not to exceed) | 17 in [431.8mm]                                       | 12 in [304.8mm]                                       |
| Average # of units per roll                 | TBD   | TBD   |
| Rev   | 00  | 00  |

**CARE AND HANDLING** RFID inlays are sensitive to ESD. Observe standard practices to keep environmental static charge to a minimum.

**APPLICATIONS** This product should be tested by the customer/ user thoroughly under end use conditions to ensure the product meets the particular requirements. Avery Dennison does not represent that this product is fit for any particular purpose or use.

**WARRANTY** Please refer to Avery Dennison RFID standard terms and conditions. The information contained herein is believed to be reliable but Avery Dennison makes no representation concerning the accuracy or correctness of the data.

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