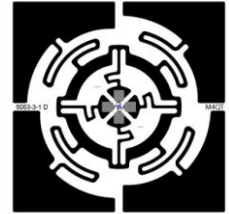




RFID

UHF RFID Inlays

**AD-681m4QT**

|                            |                                     |
|----------------------------|-------------------------------------|
| <b>Dimensions</b>          | 50 x 50 mm                          |
| <b>Operating Frequency</b> | Global (860 – 960 MHz)              |
| <b>RF Protocol</b>         | ISO-18000-6C, EPC Class 1, Gen 2    |
| <b>Chip</b>                | Impinj Monza 4QT                    |
| <b>EPC Memory</b>          | 128 bit                             |
| <b>USER Memory</b>         | 512 bit                             |
| <b>TID Memory</b>          | 48-bit unique serialized TID Number |

**Common Applications**  
Supply Chain Management  
Asset Tracking  
Package Tracking

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| PART NUMBER                                 | RF600911   | RF600981   |
|---|--|--|
| Format                                      | Dry Inlay  | PS Inlay   |
| Antenna dimensions (CDxMD)                  | 1.97 x 1.97 in<br>(50 x 50 mm)                     | 1.97 x 1.97 in<br>(50 x 50 mm)                     |
| Die-cut dimensions                          | N/A  | 2.087 x 2.087 in<br>(53 x 53 mm)                   |
| Inlay substrate material                    | White PET  | White PET  |
| Inlay-to-liner adhesive                     | N/A  | S-490 (FASSON)                                     |
| Liner material                              | N/A  | 40# SCK  |
| Face Sheet                                  | N/A  | N/A  |
| Standard pitch                              | 2.375 in (60.325 mm)                               | 2.375 in (60.325 mm)                               |
| Standard web width                          | 2.362 in (60 mm)                                   | 2.362 in (60 mm)                                   |
| Total thickness over chip                   | 8.3 - 10.3 mil (211 - 262 micron)                  | 10.7 - 12.7 mil (272 - 323 micron)                 |
| Operating temperature                       | -40 to 185F (-40 to 85C)                           | -40 to 185F (40 to 85C)                            |
| RoHS  | EU Directive 2011/65/EU Compliant                  | EU Directive 2011/65/EU Compliant                  |
| Quality assurance                           | 100% read tested with-of-tolerance<br>inlay marked | 100% read tested with-of-tolerance<br>inlay marked |
| Un-wind direction                           | Inlay-side Out                                     | PS Inlay-side Out                                  |
| Core size with adaptor insert               | 3 in (76.2 mm)                                     | 6 in (152.4 mm)                                    |
| Maximum roll outer diameter (not to exceed) | 15.375 in (390.1 mm)                               | 17 in (431.8 mm)                                   |
| Average # of units per roll                 | 12,500 good +/- 10%                                | 12,500 good +/- 10%                                |
| Rev   | 00   | 00   |

**Care and handling:** RFID inlays are sensitive to ESD. Observe standard industry practices relating to electronics/RFID to keep environmental impact and 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.

**Product Information:** Avery Dennison reserves the right to modify, change, supplement or discontinue product offerings at any time without notice. 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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