



RFID

UHF RFID Inlays

AD-318m5

| | |
|----------------------------|-------------------------------------|
| Dimensions | 1.63 x 0.63 in [41.4 x 16 mm] |
| Operating Frequency | Global (860 – 960 MHz) |
| RF Protocol | ISO-18000-6C, EPC Class 1, Gen 2 |
| Chip | Imping Monza 5 |
| EPC Memory | 128 bit |
| TID Memory | 48-bit unique serialized TID number |
| USER Memory | 32 bit |

Common Applications

Item Level Retail & Apparel
Supply Chain, Inventory & Logistics
Pharmaceutical and Healthcare

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| PART NUMBER | 600423 | 600424 |
|---|---|---|
| Format | Dry Inlay | Wet Inlay |
| Antenna dimensions (CD x MD) | 1.63 x 0.63 in [41.4 x 16 mm] | 1.63 x 0.63 in [41.4 x 16 mm] |
| Die-cut dimensions | N/A | 1.75 x 0.75 in [44.45 x 19.05 mm] |
| Inlay substrate material | PET | PET |
| Inlay-to-liner adhesive | N/A | S-490 (FASSON) |
| Liner material | N/A | 1.5M Clear PET |
| Face Sheet | N/A | N/A |
| Standard pitch | 1.0 in [25.4mm] | 1.0 in [25.4mm] |
| Standard web width | 2.0 in [50.8mm] | 2.0 in [50.8mm] |
| Total thickness over chip | 10-13 mils [254-330.2 microns] | 14-17 mils [356-431.8 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-of-tolerance inlay marked | 100% read tested with-of-tolerance inlay marked |
| Un-wind direction | Inlay-side Out | PS Inlay-side Out |
| Core size with adaptor insert | 3 in [76.2 mm] | 3 in [76.2 mm] |
| Maximum roll outer diameter (not to exceed) | 15.38 in [390.65 mm] | 13 in [330.2 mm] |
| Average # of units per roll | 40,000 good +/- 10% | 20,000 good +/- 10% |
| Rev | 02 | 02 |

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.

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