

Product Specification

v1.0

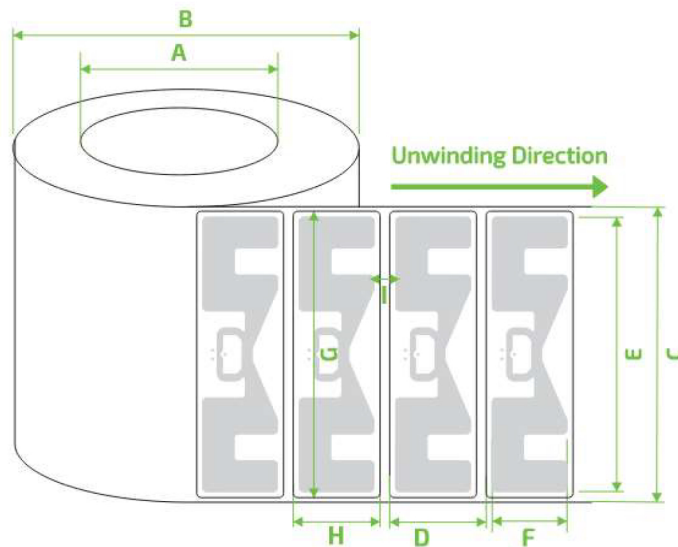
SKU: AN792N102

| | |
|------------------------|---|
| Operating frequency | 860-960 MHz |
| Air interface protocol | RAIN RFID / ISO 18000-63 and EPCglobal Gen2v2 |

IC - Integrated Circuit

| | |
|--------------------|---|
| Model | Impinj Monza R6-B |
| TID | 96 bits of Serialized TID with 48-bit serial number |
| EPC | 96 bits |
| User | None |
| Reserved | 32 bits Access Password, 32 bits Kill Password (chip configuration) |
| Data Retention | 50 years |
| Programming Cycles | 100,000 cycle endurance |
| Read Sensitivity | - 22.1 dBm |
| Write Sensitivity | - 17.3 dBm |

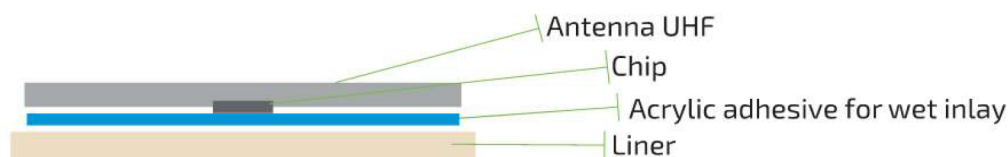
Mechanical Specification



| Dimension | Item | Metric [mm] | Tolerance [mm] | US [in] |
|-----------|------------------------------------|-------------|----------------|---------|
| A | Core inner diameter | 76.2 | 2 | 3 |
| B | Roll max outer diameter (\leq) | 203.2 | 5 | 8 |
| C | Web width | 97 | 1 | 3.82 |
| D | Pitch length per piece (MD) | 31.115 | 0.5 | 1.225 |
| E | Antenna width | 90 | 0.2 | 3.54 |
| F | Antenna height | 24 | 0.5 | 0.94 |
| G | Die-cut width | 94 | 0.5 | 3.70 |
| H | Die-cut height | 28 | 0.5 | 1.10 |
| I | GAP | 3.115 | 1 | 0.123 |
| | Register Mark | NA | -- | -- |

* Not applicable.

Product Structure



| | |
|----------------------------|--|
| Front material | PET 50µm substrate |
| Back Material | Liner, 60 g/m ² |
| Antenna material | Aluminum 10 µm on a PET 50µm substrate |
| Adhesive | Functional Permanent PSA Acrylic for wet inlay (ADC200F) |
| Min. labelling temperature | 0 °C |
| Service temperature | -40 to 85 °C (maximum related to the top high temperature of the adhesive) |
| Peel min. | 3 N / 25 mm (FTM 2) |
| Total Thickness | 213 µm (± 13 µm) |

Characteristics

| | |
|------------------------------|----------------------------------|
| Max. consecutive faulty tags | 3 |
| IC operating temperature | -40 °C to 85°C, 50 % RH |
| Shelf life | 1 year (from manufacturing date) |
| Storage | 23 °C ±3 °C / 50% RH ± 5% |
| Yield | > 99% |
| ESD voltage immunity | 2 kV peak HBM (Human Body Model) |
| Bending diameter | > 50 mm, tension less than 10 N |

Packaging

| | |
|-----------------|-------------------------------------|
| Qty per Roll | 7,500 (standard roll for 8") |
| Roll Net Weight | 3 kg - 6.61 lbs |
| Box | 240 x 240 x 120 mm (1 roll per box) |
| Master Box | NA* |

* Not applicable.