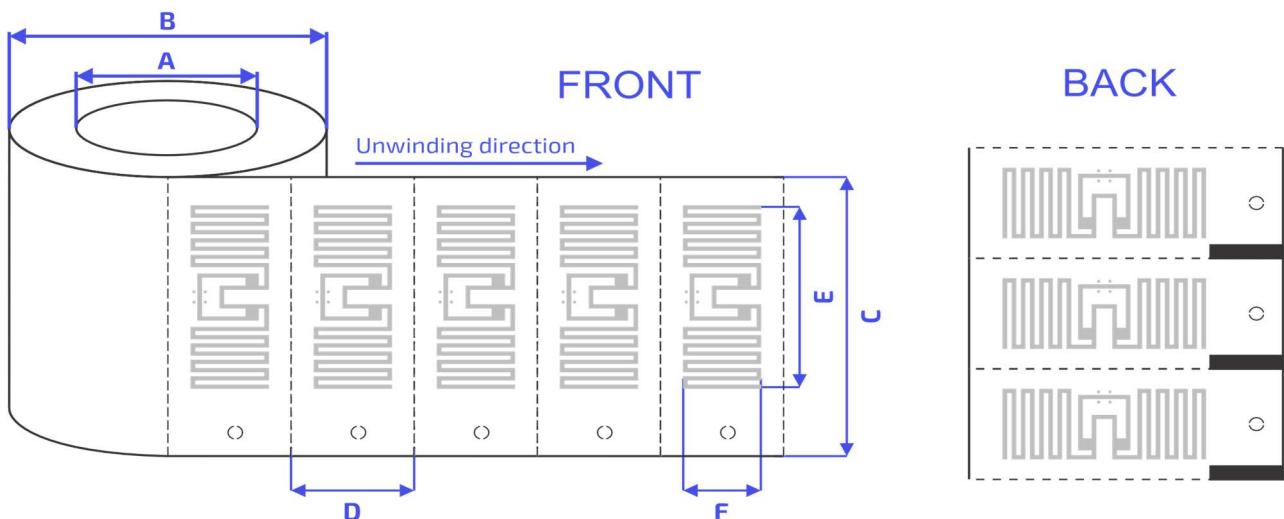


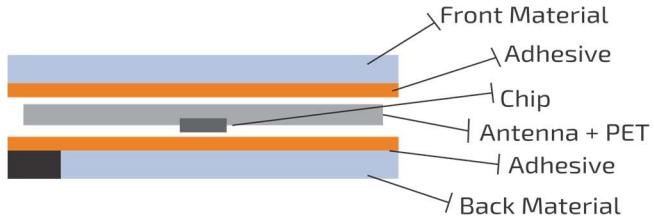
**Product Specification****IC - Integrated Circuit**

|                    |                              |                              |
|--------------------|------------------------------|------------------------------|
| SKU                | AN362N104                    | TBD                          |
| Model              | Impinj M830                  | Impinj M850                  |
| TID                | 96 bits (48 bits serialized) | 96 bits (48 bits serialized) |
| EPC                | 128 bits                     | 96 bits                      |
| User               | None                         | 32 bits                      |
| Reserved           | 32 bits Access, 32 bits Kill | 32 bits Access, 32 bits Kill |
| Data Retention     | 10 years                     | 10 years                     |
| Programming Cycles | 10,000 cycle endurance       | 10,000 cycle endurance       |

|                        |   |
|------------------------|---|
| Read Sensitivity       | -25,5 dBm                                     |
| Write Sensitivity      | -20 dBm                                       |
| Operating frequency    | 860 MHz to 960 MHz                            |
| Air interface protocol | RAIN RFID / ISO 18000-63 and EPCglobal Gen2v2 |

**Mechanical Specification**

| Dimension | Item                               | Metric [mm] | Tolerance [mm] | US [in]   |
|-----------|------------------------------------|-------------|----------------|-----------|
| A         | Core inner diameter                | 76,2        | 3,0            | 3,00      |
| B         | Roll max outer diameter ( $\leq$ ) | 203,2       | 5,0            | 8,00      |
| C         | Web width                          | 65          | 1,5            | 2,56      |
| D         | Pitch length per piece (MD)        | 25,4        | 1,5            | 1,00      |
| E         | Antenna width                      | 42          | 0,2            | 1,65      |
| F         | Antenna height                     | 16          | 0,5            | 0,63      |
|           | Register Mark                      | 15x3        | 1,5            | 0,59x0,12 |



|                     |  |
|---------------------|--|
| Front material      | Nylon  |
| Back Material       | Printed Nylon  |
| Adhesive            | Functional Permanent Hotmelt   |
| Antenna material    | Aluminum 10 µm on a PET 50µm substrate                                     |
| Service temperature | -20 to 65 °C (maximum related to the top high temperature of the adhesive) |
| Total Thickness     | 295 µm ( $\pm$ 15 µm)  |
| Application Method  | Manual   |

## Characteristics

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

## Packaging

|              |                    |
|--------------|--------------------|
| Qty per Roll | 4.000              |
| Box          | 240 X 240 X 390 mm |
| Master Box   | NA                 |