

CCRR P7A 34x18mm Sticker Label **CCRR**[®]

RFID

Product Specification

v1.0

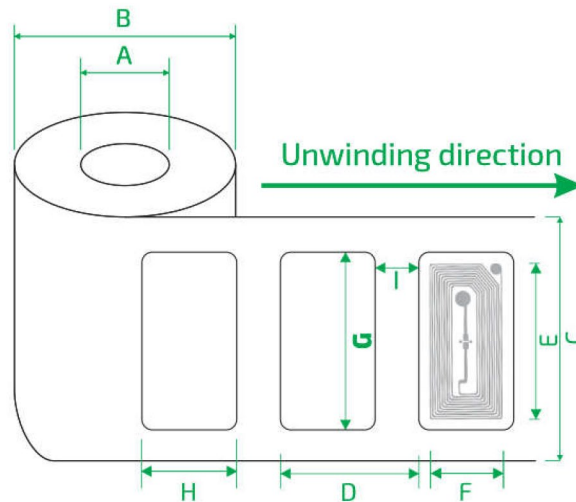
SKU: AN931N100

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

IC - Integrated Circuit

| | |
|--------------------|--|
| Model | NXP NTAG213 |
| UID | 7 bits identifier |
| Access protection | 32 bits password |
| User memory | 144 bits |
| Reserved | 32 bits Access Password, 32 bits Kill Password |
| Data Retention | 10 years |
| Programming Cycles | 100,000 cycle endurance |
| Read Sensitivity | NA |
| Write Sensitivity | NA |

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 | 40 | 1 | 1.57 |
| D | Pitch length per piece (MD) | 26.31 | 0.5 | 1.04 |
| E | Antenna width | 30 | 0.2 | 1.18 |
| F | Antenna height | 14 | 0.5 | 0.55 |
| G | Die-cut width | 34 | 0.5 | 1.34 |
| H | Die-cut height | 18 | 0.5 | 0.71 |
| I | GAP | 8.31 | 1 | 0.33 |
| | Register Mark | NA* | -- | -- |

* Not applicable.

Product Structure



| | |
|----------------------------|--|
| Front material | BOPP White |
| Back Material | Liner, 60 g/m ² |
| Antenna material | Aluminum 10 μm on a PET 50μm substrate |
| Adhesive | Functional Permanent PSA Acrylic (ADC1200) |
| Min. labelling temperature | 0 °C |
| Service temperature | -40 to 90 °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 | 5,000 (standard roll for 8") |
| Roll Net Weight | 3 kg - 6.61 lbs |
| Box | 230 x 230 x 120 mm (1 roll per box) |
| Master Box | NA* |

* Not applicable.