



SEE MORE. DO MORE.

# Specification Sheet

## RFID Labels

### Features:

- Thermal transfer, paper-face, wet inlay with a permanent acrylic adhesive
- Excellent print quality with Zebra 3200 wax/resin ribbon

### Suggested Applications:

- Suitable for apparel and supply chain management application
- Global, high performance, especially in SCM and item level applications
- Suitable for Item Level Tagging for apparel items as qualified by the University of Arkansas RFID Research Center
- Product identification
- Apparel labeling
- Compliance labeling
- Labeling of packaging material including corrugate and plastic

### Material Construction:




|               | Description                     | Caliper         |
|---------------|---------------------------------|-----------------|
| Facestock     | White smooth topcoated paper    | 3.1 mil         |
| Adhesive      | High performance, acrylic-based | 0.8 mil         |
| Liner         | 40 lb. glassine stock           | 2.2 mil         |
| <b>Total*</b> |                                 | 6.1 mil +/- 10% |

\*Does not include RFID inlay

### Temperature Performance:

- Minimum Application Temperature: 41° F (5° C)
- Service Temperature: 14° F to 248° F (-10° C to 120° C)
- Storage Conditions: 32° F to 70° F (0° C to 21° C) at 35% to 50% RH
- Expected Exterior Life: Not recommended for outdoor use

## Technical Specifications:

|                       | <b>BELT</b><br> | <b>DOGBONE</b><br> | <b>SHORTDIPOLE</b><br> |
|-----------------------|--|--|---|
| Zebra Part Number     | 10015350   | 10015351   | 10015352  |
| Labels/roll           | 5,000  | 3,000  | 5,000   |
| Integrated Circuit    | Impinj Monza 5   | Impinj Monza 4D  | Impinj Monza 4D   |
| Protocol              | EPC Class 1 Gen 2,<br>ISO 18 000-6C  | EPC Class 1 Gen 2,<br>ISO 18 000-6C  | EPC Class 1 Gen 2,<br>ISO 18 000-6C   |
| Operation frequency   | 860 - 960 MHz  | 860 - 960 MHz  | 860 - 960 MHz   |
| Operating temperature | -40 to 180° F  | -40 to 180° F  | -40 to 180° F   |
| Memory                | 128 bit EPC  | 128 bit EPC plus 32 bit  | 128 bit EPC plus 32 bit   |
| Antenna Size          | 2.748 x 0.551 in   | 3.382 x 0.945 in   | 3.661 x 0.433 in  |
| Label dimensions      | 2.874 x 0.669 in   | 3.819 x 1.063 in   | 3.819 x 0.591 in  |

## Surface Compatibility:

|                    | Cardboard* | Polypropylene | Teflon | Polyurethane | Glass | Duroid (ceramic) | Close coupling** |
|--------------------|------------|---------------|--------|--------------|-------|------------------|------------------|
| <b>Belt</b>        | 2          | 3             | 3      | 2            | 1     | 1                | 3                |
| <b>DogBone</b>     | 1          | 3             | 3      | 3            | 2     | 2                | 1                |
| <b>ShortDipole</b> | 3          | 3             | 3      | 2            | 2     | 2                | 1                |

- 1 – Surface offers limited use with this antenna
- 2 – Moderate acceptability
- 3 – Best surface to use with this antenna

\* Contents of corrugate packaging may have noticeable effect on RF performance.

\*\* Close coupling refers to how well the inlays tolerate overlapping each other or stacking in close proximity (<1") from each other.

## Product Performance and Suitability

The information contained in this document is to be used for guidance only and is not intended for use in setting specifications. All purchasers of Zebra products shall be solely responsible for independently determining if the product conforms to all requirements of their unique application. Testing is highly recommended.