



# Datasheet TX5030-Series MODAL M830



## High Performance Global RAIN RFID Inlay for Enhanced Item Performance



Hana’s comprehensive ARC-certified RAIN RFID (UHF) inlay program is tailored for use in applications across various industries, such as apparel/retail, agriculture and food production, and supply chain/logistics.

Offered in a wide range of delivery formats, our inlays are ideal for numerous applications demanding exceptional performance.

### Applications

- Apparel
- Sporting Goods
- Inventory Management

### Industry Segments

- Retail
- Supply Chain & Logistics
- Agriculture & Food Production

### Overview

|                  |  |
|------------------|--|
| Antenna Size     | 50 x 30 mm (1.969 x 1.181")                    |
| IC               | Impinj M830                                    |
| EPC Memory       | 128-bit  |
| User Memory      | -  |
| TID Memory       | 96-bit   |
| Frequency Band   | UHF 860 - 960 MHz                              |
| Protocol         | EPC Global Gen 2v2<br>ISO/IEC 180000-63 Type C |
| Delivery Formats | Dry Inlay, Wide Web, Paper Face                |

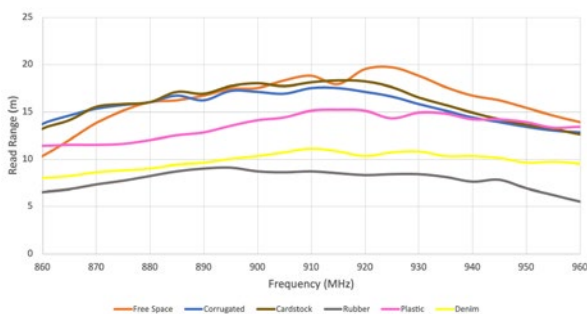
### Quality & Certification

|               |   |
|---------------|---|
| ARC Certified | Yes, Spec F, I, L, O, Q, R, W5, W6, Y2        |
| Inspection    | 100% Tested                                   |
| RoHS          | EU Directive 211/65/EU and 2015/863 compliant |

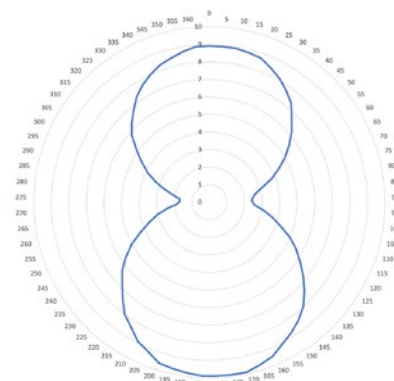
# Technical Overview

|                                      | Dry Inlay                    | Dry Wide Web                 | Paper Face                   |
|--------------------------------------|------------------------------|------------------------------|------------------------------|
| Product Code                         | TX5030DM830                  | TX5030EM830                  | TX5030EM830-WW               |
| Antenna/Finished Size                | 50 x 30 mm<br>1.969 x 1.181" | 50 x 30 mm<br>1.969 x 1.181" | 52 x 33 mm<br>2.047 x 1.297" |
| Web Width                            | 53,5 mm<br>2.106"            | 64 mm<br>2.516"              | 57,15 mm<br>2.250"           |
| Pitch                                | 38,1 mm<br>1.5"              | 38,1 mm<br>1.5"              | 38,1 mm<br>1.5"              |
| Inlays per Roll                      | 32.000                       | 32.000                       | 7.500                        |
| Antenna Material                     | Aluminium                    | Aluminium                    | Aluminium                    |
| Inlay Substrate                      | 50um PETm 9UM AI             | 50um PETm 9UM AI             | 50um PETm 9UM AI             |
| Facesheet Properties                 | N/a                          | N/a                          | 40# Thermal Transfer Paper   |
| Adhesive Properties                  | N/a                          | N/a                          | Acrylic Permanent            |
| Operating Temperatures               | -40 to 85°C<br>-40 to 185°F  | -40 to 85°C<br>-40 to 185°F  | -40 to 85°C<br>-40 to 185°F  |
| Adhesive Application                 | N/a                          | N/a                          | -4°C<br>25°F                 |
| Adhesive Service Temperature (range) | N/a                          | N/a                          | -59 to 93°C<br>-75 to 200°F  |

## Read Range



## Orientation Sensitivity



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Warranty: Please refer to Hana's UHF Labels standard terms and conditions. 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 requirements. Hana Technologies, Inc. does not represent that this product is fit for any particular purpose or use. The information contained herein is believed to be reliable but Hana Technologies, Inc. makes no representation concerning the accuracy or correctness of the data.

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