



# FLAME

## UHF RFID LABEL

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The Vulcan RFID Flame UHF RFID Label features the high-speed, efficient Impinj M830 IC, designed to meet the needs of challenging RFID tagging applications.

Combined with a small form factor and Impinj's Autotune V3, this label is ideal for operations that use apparel hang tags, cosmetics, furniture, and home goods.

The Vulcan RFID Flame is the smaller counterpart to the Vulcan RFID Fire, but offers excellent performance, exhibiting an improved read range over its M730 predecessor and other labels of a similar size.

Compared to an inlay, this label is outfitted with a polypropylene facestock, exhibiting heightened durability, extending tag longevity, and making it the optimal tag for retail, cosmetics, and staging.

The Vulcan RFID Flame is great for a variety of applications including but not limited to:

- Asset Management
- Home Goods and Furniture
- Cosmetics Tracking





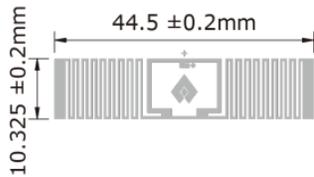
## Specifications

|             |                               |  |
|-------------|-------------------------------|--|
| ELECTRICAL  | Operating Frequency:          | Global (860-960 MHz)                               |
|             | Air Interface Protocol:       | UHF ISO-18000-6C                                   |
|             | IC Type:                      | Impinj M830  |
|             | Memory:                       | EPC 128 Bits, User 0 Bits, TID 96 Bits             |
|             | EPC Memory Content:           | Unique, Auto-Serialized                            |
|             | Max Read Distance:            | 35 ft on Cardboard                                 |
|             | Applicable Surface Materials: | Glass, Plastic, Wood, Cardboard                    |
|             |                               |  |
| MECHANICAL  | Tag Form Factor:              | Label  |
|             | Tag Materials:                | Matte White Polypropylene                          |
|             | Recommended Ribbon:           | Resin Ribbon                                       |
|             | Attachment Method:            | Permanent Acrylic-Based Adhesive                   |
|             | Dimensions:                   | 47.50 x 13.38 x 0.21 mm (1.870 x 0.526 x 0.008 in) |
|             | Weight:                       | 1 g (0.002 lbs)                                    |
|             | Core ID:                      | 76.2 mm (3 in)                                     |
|             | External Roll Diameter:       | 200 mm (7.87 in)                                   |
|             | Quantity per Roll:            | 8,000 Labels                                       |
|             |                               |  |
| ENVIRONMENT | Operating Temperature:        | -40° to +85°C (-40° to +185°F)                     |
|             |                               |  |
|             |                               |  |
|             |                               |  |
|             |                               |  |

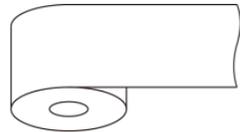
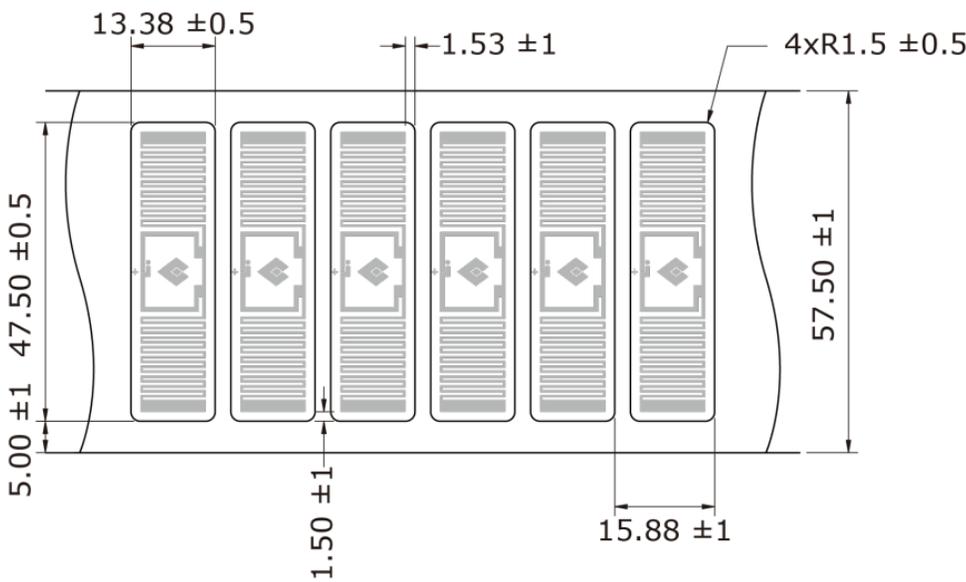


# Diagrams

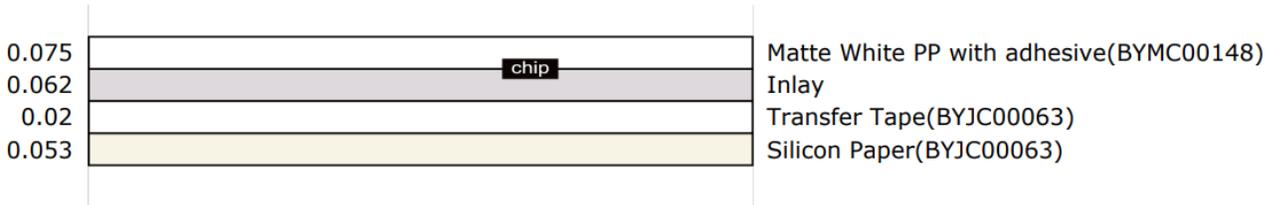
Layout and Dimensions (mm)



Unwinding Direction →



**Construction (Thickness: mm; Tolerance: +/-10% per layer )**



# Product Variations

|       | IC Type & Memory  | Form Factor | Product Code         |
|-------|---|-------------|----------------------|
| Flame | Impinj Monza 4i (EPC 256 Bits, User 480 Bits, TID 96 Bits)  | Label       | VUL-FLAME-M4I-LBLPP  |
|       | Impinj Monza 4QT (EPC 128 Bits, User 512 Bits, TID 32 Bits) | Label       | VUL-FLAME-M4QT-LBLPP |
|       | Impinj Monza R6-P (EPC 128 Bits, User 32 Bits)              | Label       | VUL-FLAME-MR6P-LBLPP |
|       | Impinj M730 (EPC 128 Bits, TID 96 Bits)                     | Label       | VUL-FLAME-M730-LBLPP |
|       | Impinj M830 (EPC 128 Bits, TID 96 Bits)                     | Label       | VUL-FLAME-M830-LBLPP |



# About Vulcan RFID Products

Vulcan RFID offers a broad range of innovative RFID readers, antennas, custom RFID tags, and accessories suited for a wide variety of industries and applications. Designed to deliver superior accuracy and reliability, Vulcan RFID products offer exceptional flexibility and performance. Vulcan RFID delivers an extensive product portfolio that includes both UHF and NFC products that support a large variety of market solutions. Manufactured to withstand environments ranging from mild to extreme, Vulcan RFID products enable end-users to reach and sustain high levels of performance in the UHF or NFC frequency bands.



## Vulcan RFID Readers

Vulcan RFID offers high-performance RFID readers that are easy to install, configure, and integrate.

[Shop Now](#)



## Vulcan RFID Antennas

Vulcan RFID offers an extensive collection of UHF RFID antennas designed to maximize the RF performance and coverage area of an RFID system.

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## Vulcan RFID Tags & Inlays

Vulcan RFID offers a broad range of RFID labels, tags and inlays built to withstand environments ranging from mild to extreme.

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## Vulcan RFID Accessories

Vulcan RFID provides a variety of high-quality accessories, RF hardware, and cables.

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