VULCAN RFID™

FLAME
UHF RFID LABEL

The **Vulcan RFID™ Flame UHF RFID Label** is equipped with the optimal, efficient, and fast **Monza R6-P** IC designed to meet the needs of challenging RFID tagging applications.

Combined with a small form factor and a user memory of 32 bits for distributed data applications, this label is ideal for a variety of applications that small package labels, including:

- Corrugated Cases
- Pallet Placard Labels
- Asset Management
- Shipping Labels

The **Vulcan RFID™ Flame** is the shorter counterpart to the **Vulcan RFID™ Fire**, but offers excellent performance with its **extensible memory bank**. Compare to an inlay, this label is outfitted with a polypropylene facestock, exhibiting **heightened durability,** extending tag longevity, and making it the optimal inlay for retail and shipping operations.

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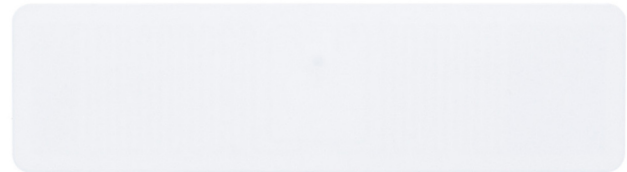
Specifications

ELECTRICAL		
Operating Frequency:	Global (860-960 MHz)	
Air Interface Protocol:	UHF ISO-18000-6C	
IC Type:	Impinj Monza R6-P	
Memory:	EPC 128 bit, User 32 bit, TID 0 bit	
EPC Memory Content:	Not Guaranteed Unique	
Max Read Distance:	Testing Recommended	
Applicable Surface Materials:	Wood, Plastic, Glass, Cardboard	

MECHANICAL		
Tag Form Factor:	Label	
Tag Materials:	Matte White Polypropylene	
Recommended Ribbon:	Resin Ribbon	
Attachment Method:	General Purpose Permanent Acrylic Based Adhesive	
Dimensions:	47.50 x 13.38 mm (1.870 x 0.526 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)	

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Diagrams

Antenna Design

Top: Aluminum/10 μm
Substrate: PET/50 μm

Layout and Dimensions (mm)

44.45 ±0.2mm
10.325 ±0.2mm

Unwinding Direction

13.38 ±0.5
1.53 ±1
R 1.50 ±0.5*4
1.53 ±1
47.50 ±0.5
57.50 ±1
5.00 ±1
15.88 ±1

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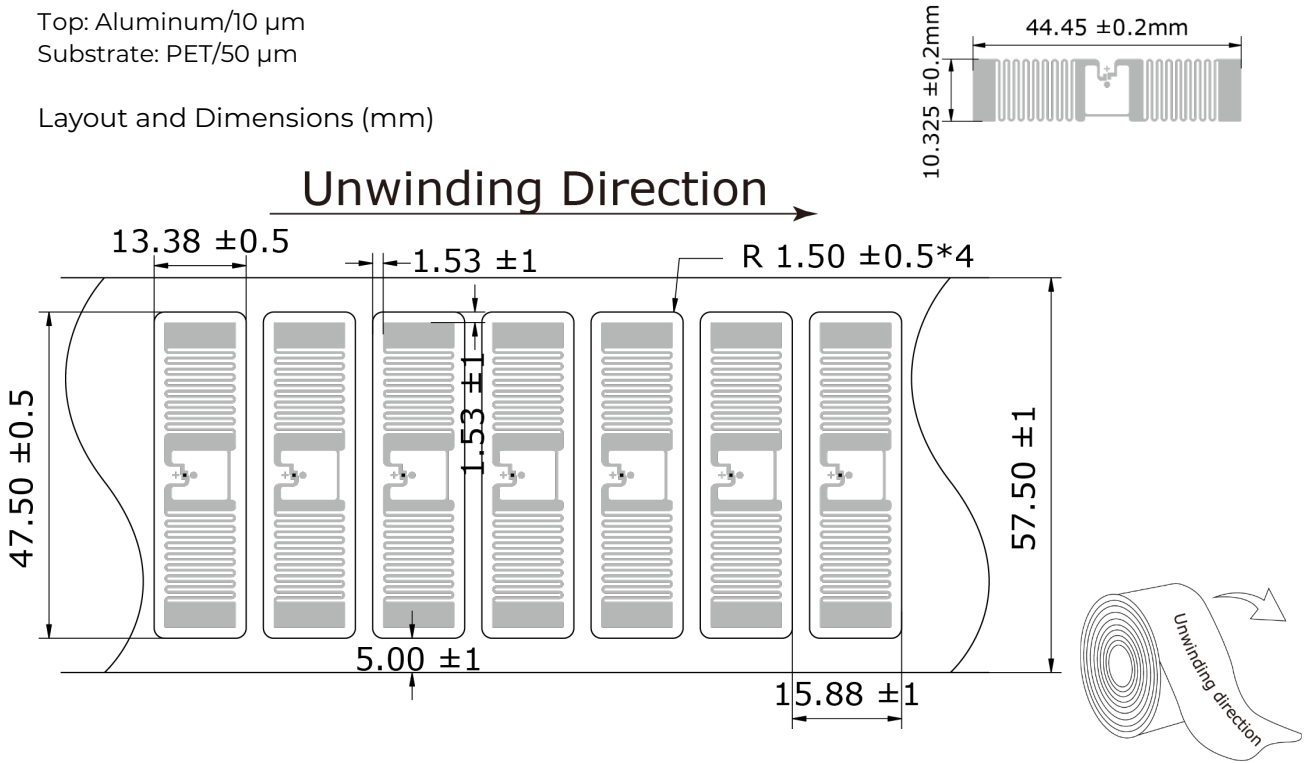
Construction (Thickness: mm; Tolerance: +/-10% per layer)

0.075	Matte White PP with adhesive(BYMC00148)
0.062	chip / Inlay
0.02	Transfer Tape(BYJC00031)
0.053	Silicon Paper(BYJC00031)
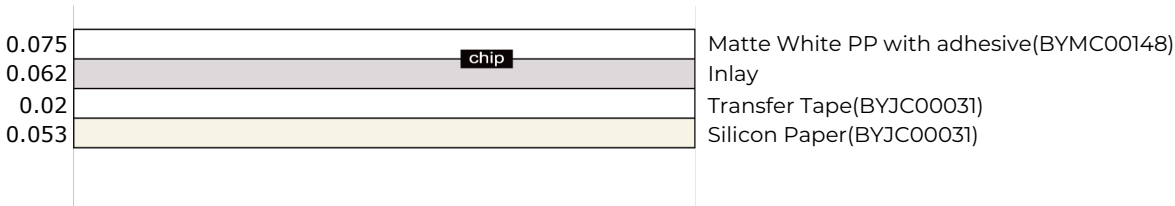
Product Variations

	IC Type & Memory	Form Factor	Product Code
Flame	Impinj Mozna R6-P (EPC 128 Bits, User 32 Bits)	Label	VUL-FLAME-MR6P-LBLPP
	Impinj Monza 4QT (EPC 128 Bits, User 512 Bits, TID 32 Bits)	Label	VUL-FLAME-M4QT-LBLPP
	Impinj M730 (EPC 128 Bits)	Label	VUL-FLAME-M730-LBLPP
	Impinj Monza 4i (EPC 256 Bits, User 480 Bits, TID 64 Bits)	Label	VUL-FLAME-M730-LBLPP

VULCAN RFID™

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.

Shop Now

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.

Shop Now

Vulcan RFID Accessories

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

Shop Now

(205) 383-2244

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