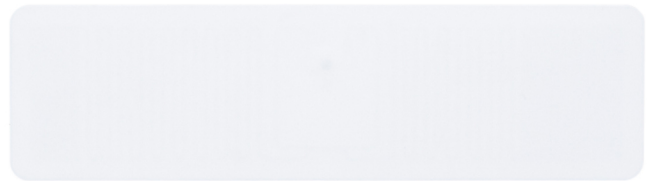**VULCAN RFID™**

FLAME
UHF RFID LABEL

The **Vulcan RFID Flame UHF RFID Label** is equipped with the high-performance and reliable Monza 4i integrated circuited designed to meet the needs of challenging RFID tagging applications.

Combined with a small form factor and a **high user memory** of 480 bit 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** and **versatility**. 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 and shipping operations
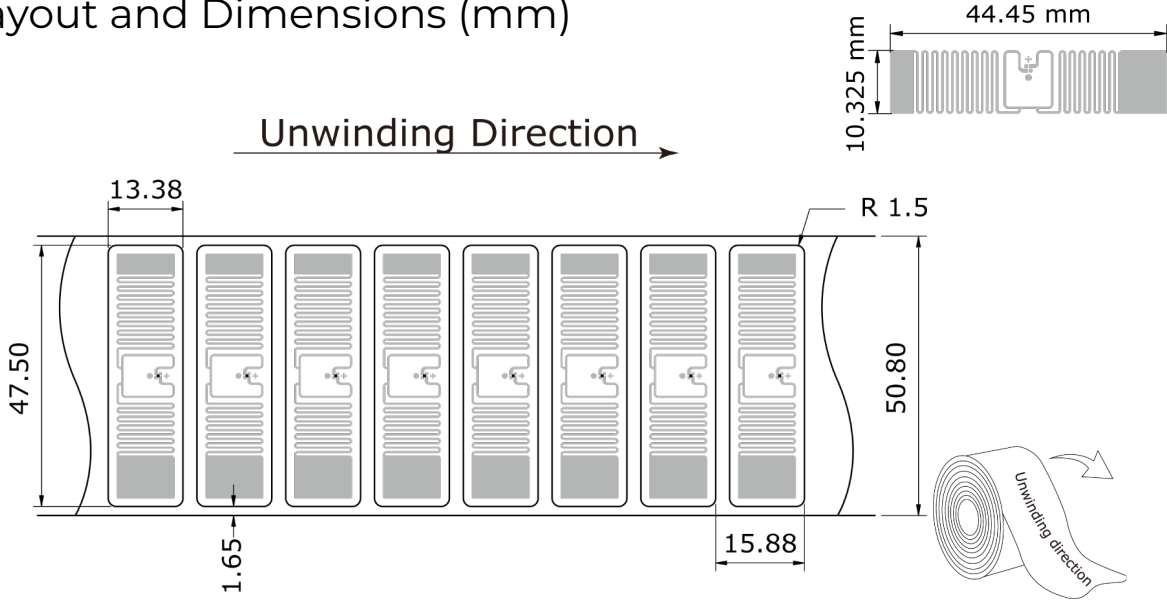
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Specifications

ELECTRICAL		
	Air Interface Protocol:	ISO 18000-6C
	Operating Frequency:	Global (860-960 MHz)
	IC Type:	Impinj Monza 4i
	Memory:	EPC 256 bit, User 480 bit, TID 96 bit
	EPC Memory Content:	Not Guaranteed Unique
	Max Read Distance:	25 - 30 ft on Cardboard
	Applicable Surface Materials:	Glass, Plastic, Wood, Cardboard

MECHANICAL		
	Tag Form Factor:	Label
	Tag Materials:	Matte White Polypropylene
	Attachment Method:	Permanent Acrylic-Based Adhesive
	Quantity per Roll:	5,000
	Core Internal Diameter:	152.4 mm (6 in)
	Roll External Diameter:	309.9 mm (12.20 in)
	Dimensions:	47.50 x 13.38 mm (1.870 x 0.526 in)
	Weight:	1 g

ENVIRONMENT		
	Operating Temperature:	-40° to +85°C (-40° to +185°F)
	Storage Temperature:	-40° to +85°C (-40° to +185°F)

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Diagrams

Layout and Dimensions (mm)

44.45 mm

10.325 mm

Unwinding Direction

13.38

R 1.5

47.50

50.80

1.65

15.88

Unwinding direction

Construction   (Reference thickness: mm)

Thickness	Layer
0.05	Matte White PET with adhesive(MZ0097)
0.063	Inlay (chip)
0.019	Transfer Tape(UE/RC18/28/U1)
0.073	Silicon Paper(UE/RC18/28/U1)

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-M4I-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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