VULCAN RFID™

Product Family | Global UHF RFID Label (860 - 960 MHz)
Product Code | VUL-FIRE-UC8-LBLPET

FIRE
UHF RFID LABEL

The **Vulcan RFID™ Fire UHF RFID Label** comes equipped with the latest in high-performance **NXP UCODE 8** integrated circuit that meets the needs of the most demanding RFID tagging applications.
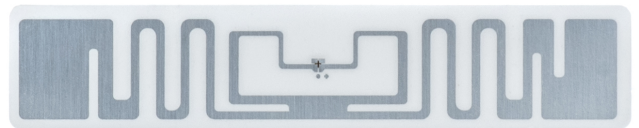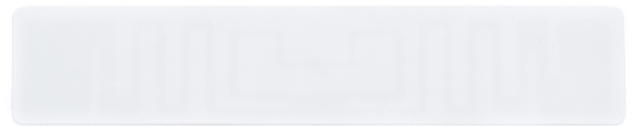
This label provides **excellent read performance** for operations in retail with applications such as apparel hang tags, supply chain management, and shipping services. Other typical applications include but are not limited to:

- Corrugated Cases
- Pallet Placard Labels
- Asset Management

The **narrow antenna design** makes the label an ideal fit for certain applications such as file folder labels and applications with plastic.

Compared to an inlay, this label is outfitted with a PET facestock, exhibiting **heightened durability** and extending **tag longevity**. With the narrow antenna design and larger size when compared to its counterpart in the Vulcan RFID™ Flame, the **Vulcan RFID™ Fire** exhibits **increased performance.**

From tracking along the supply chain to loss prevention, the **Vulcan RFID Fire** is an optimal tag featuring an enhanced read sensitivity with **128 bits of EPC memory**.
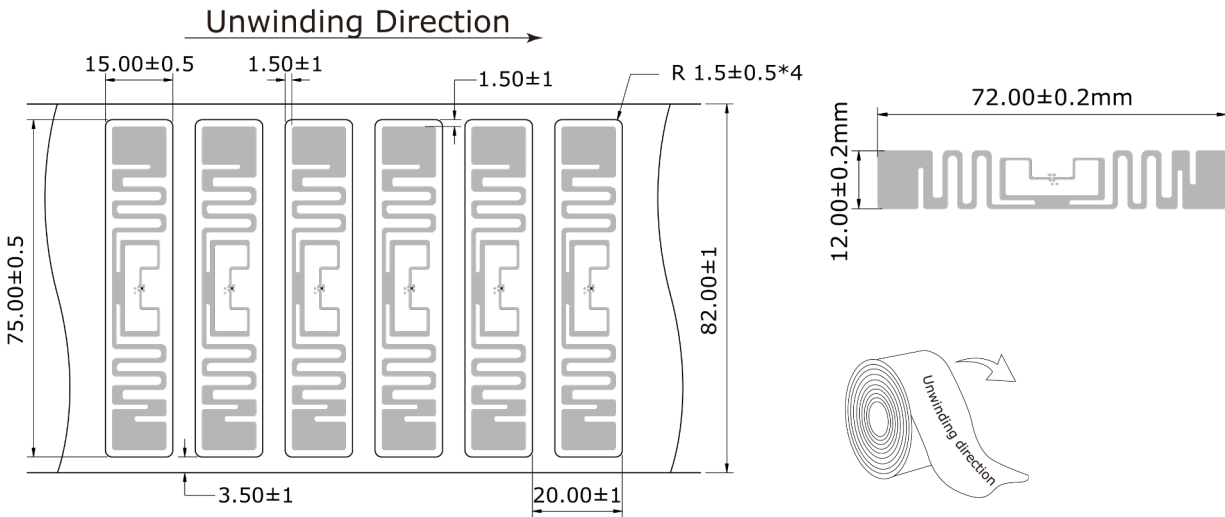
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Specifications

ELECTRICAL		
	Air Interface Protocol:	ISO 18000-6C
	Operating Frequency:	Global (860-960 MHz)
	IC Type:	NXP UCODE 8
	Memory:	EPC 128 Bits, User 0 Bits, TID 96 Bits
	EPC Memory Content:	Unique
	Max Read Distance:	35 - 40 ft on Cardboard
	Applicable Surface Materials:	Glass, Plastic, Wood, Cardboard

MECHANICAL		
	Tag Form Factor:	Label
	Tag Materials:	Matte White PET
	Attachment Method:	Permanent Acrylic-Based Adhesive
	Quantity per Roll:	5,000
	Core Internal Diameter:	76.2 mm (3 in)
	Roll External Diameter:	195.83 mm (7.71 in)
	Dimensions:	75 x 15 mm (2.95 x 0.59 in)
	Weight:	1 g
	Pitch:	20 mm

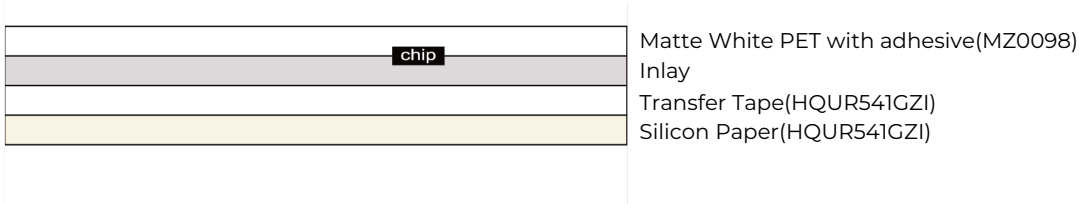| ENVIRONMENT		
	Operating Temperature:	-40° to +85°C (-40° to +185°F)
	Storage Temperature:	-55° to +125°C (-67° to +257°F)

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Diagrams

Layout and Dimensions (mm)

Unwinding Direction →

15.00±0.5   1.50±1   1.50±1   R 1.5±0.5*4

72.00±0.2mm

12.00±0.2mm

75.00±0.5

82.00±1

3.50±1   20.00±1

Unwinding direction

Construction (Total Thickness: 0.26~0.36 mm)

chip

Matte White PET with adhesive(MZ0098)
Inlay
Transfer Tape(HQUR541GZI)
Silicon Paper(HQUR541GZI)

Product Variations

	IC Type & Memory	Form Factor	Product Code
Fire	NXP UCODE 8 (EPC 128 Bits, TID 96 Bits)	Label	VUL-FIRE-UC8-LBLPET
	Impinj M730 (EPC 128 Bits, TID 96 Bits)	Label	VUL-FIRE-M730-LBLPET

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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

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