

# Volcano Tag™

Durable low frequency RFID tags that perform in high temperature environments



Volcano Tag™ passive contactless radio frequency identification (RFID) transponders are built for reliable performance in high-heat conditions. For RFID applications where tags must perform before, amidst or following extreme heat exposure, Volcano Tag discs withstand peak temperatures up to 392° F (200° C).

Volcano Tag housings are composed of field-proven, temperature-stable polyphthalamide (PPA). This thermoplastic shell holds its shape despite high or fluctuating temperatures, protecting the electronics within. Exceptional

toughness, chemical resistance and abrasion resistance assure consistent communications with RFID readers, and reliable performance in automation and manufacturing applications.

Low frequency (LF) Volcano Tag discs perform well affixed to virtually any surface – glass, metal, plastic or wood. They offer reliable, cost-effective tagging for near-proximity reader applications, with available data storage of 64-bit user ID capability.

For additional disc-tag options, the HID IN Tag™ and Poly Tag families also include heavy-duty tags in low frequency, high frequency and UHF configurations. For lighter-duty applications, consider HID Epoxy Disc or World Tag™ RFID tags.



## KEY BENEFITS:

- High heat tolerance – during storage, industrial processing, transportation and outdoor use
- Durable housing – withstands rigors of chemical and mechanical exposure
- Versatile – screw-mounts securely anywhere without compromising performance: glass, metal, plastic, or wood

## TECHNOLOGY HIGHLIGHTS:

- Peak temperature up to 392° F (200° C)
- Operating frequency 125 kHz
- Waterproof
- Mount-ready, via central screw hole

## APPLICATION AREAS:

- Automation and manufacturing
  - High temperature production processes
  - Machinery

# Volcano Tag™



HID Global can create a custom tag solution to fit your application requirements for chip type, dimensions, programming and materials.

	Volcano Tag™
	231
Base Model Number	601170
	ELECTRONIC
Operating Frequency	125 kHz
Chip Type	Unique
Memory	64 bit read-only
Anti-Collision	N/A
Reading Distance	Dependent upon reader, environment and application
	PHYSICAL
Dimensions	Ø 1.02 x 0.16 in (Ø 26 x 4 mm)
Mounting Method	Screw
Fixation Hole Size	Ø 0.18 in (4.5 mm)
Affixes To	Glass, metal, plastic, wood
Housing Material	PPA
Color	Black
Weight	0.12 oz (3.5 g)
	CHEMICAL AND MECHANICAL
Water	IP68, 68° F (20° C), 3.3 ft (1 m) x 24 h
Vibration	IEC 68.2.6 [10 g, 10 to 2000 Hz, 3 axis, 2.5 h]
Shock	IEC 60068-2-27:2008 [40 g, 18 ms, 6 axis, 2000 times]
	THERMAL
Storage	-13° to +284° F (-25° to +140° C), 1000 h
Operating	-13° to +185° F (-25° to +85° C)
Shock/Fatigue	68° to +320° F (20° to +160° C), 100 x 5 min with 20 sec transition
Peak	+320° F (+160° C) 1 x 100 h; 392° F (+200° C) 10 x 10 min
	OTHER
Box Size	800 pcs
Warranty	2 Years



For further information, contact [tagsales@hidglobal.com](mailto:tagsales@hidglobal.com)



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