INDUSTRY AND LOGISTICS

Volcano Tag™

DURABLE LOW FREQUENCY RFID TAGS THAT PERFORM IN HIGH TEMPERATURE ENVIRONMENTS

- **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

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 from a 64-bit user ID up to 2048-bit read-write capability.

For additional disc-tag options, the HID Global 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.

TECHNOLOGY HIGHLIGHTS:

- Peak temperature up to 392° F (200° C)
- Operating frequency 125 kHz
- Up to 2048 EEPROM
- Waterproof
- Mount-ready, via central screw hole

APPLICATION AREAS:

- **Automation and manufacturing**
  - High temperature production processes
  - Machinery

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

SPECIFICATIONS

	Volcano Tag™			
	231			
Base Model Number	623170	624170	612170	601170
ELECTRONIC				
Operating Frequency	125 kHz			
Chip Type	Hitag S		Q5	Unique
Memory	256 bit EEPROM	2048 bit EEPROM	264 bit EEPROM	64 bit read-only
Anti-Collision	Yes			
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 68.2.29 [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) 100 h; 392° F (+200° C) 10 min			
OTHER				
Warranty	2 Years			

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