



EXTRA THIN LOW FREQUENCY RFID TAGS WITH HIGH MECHANICAL AND THERMAL STABILITY

- Versatile** . a variety of sizes and mounting options to match myriad applications
- Durable** . resistant to moisture, oils, and exposure to high temperature
- Effective** . no line-of-sight necessary, with anti-collision to enable simultaneous reading of multiple tags

HID Global Epoxy Disc low frequency general-purpose tags tolerate rough environments, withstand exposure to oils and moisture, and deliver stable performance in both low and high temperatures. They perform under harsh conditions, including waste management and medical applications.

Employing radio frequency identification (RFID) technology, Epoxy Disc tags are readable in proximity, even through packing materials. These durable Epoxy Disc tags are available in a broad range of sizes, with an array of integrated chip options. Epoxy Disc tags may be adhered with glue, secured with screws, or embedded in a custom housing, depending on the application.

HID Epoxy Disc RFID tags can integrate easily into a broad range of automated systems. A variety of sizes are available for tracking virtually any type of container, equipment, tool or other physical asset whose whereabouts or

history is pertinent. Available read-write capable Epoxy Disc tags enable simultaneous collection and dissemination of data. Epoxy Disc tags help optimize efficiency, economy and traceability, by enabling the tracking of, for example:

- ~ Manufacturing line equipment maintenance and repair schedules
- ~ Work in progress and finished goods
- ~ Waste management pickups and recycling, enabling automated invoicing and route optimization
- ~ Hazardous waste collection, transportation and disposal
- ~ Medical and dental devices and tools, including managing and controlling sterilization processes to help ensure compliance and improve infection control
- ~ General fleet or equipment maintenance lifecycles

TECHNOLOGY HIGHLIGHTS:

- Low frequency 125 kHz Read-write memory up to 2048 bits
- Peak temperature up to 284° F (140° C)
- Fixation methods: glue, screw or encapsulation

APPLICATION AREAS:

Automation and manufacturing

- Item/box tracking through production process
- Electronic tool identification

Medical and health

- Sterilization validation
- Equipment identification

Waste management

- Usage-based invoicing
- Recycling incentive programs



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

SPECIFICATIONS

	Epoxy Disc							
	Hitag S			Q5	Unique			
	20 mm	30 mm	50 mm	30 mm	20 mm	30 mm	30 mm	50 mm
Base Model Number	624112	624143	624144	712102	60112	601143	601153	601144
ELECTRONIC								
Operating Frequency	125 kHz							
Chip Type	Hitag S			Q5	Unique			
Memory	2048 bit EEPROM			264 bit EEPROM	64 bit read-only			
Anti-collision	Yes							
Reading Distance	Dependent upon reader, environment and application							
PHYSICAL								
Dimensions	Ø 0.79 x 0.04 in (Ø 20 x 1 mm)	Ø 1.18 x 0.04 in (Ø 30 x 1 mm)	Ø 1.97 x 0.04 in (Ø 50 x 1 mm)	Ø 1.18 x 0.04 in (Ø 30 x 1 mm)	Ø 0.79 x 0.04 in (Ø 20 x 1 mm)	Ø 1.18 x 0.04 in (Ø 30 x 1 mm)	Ø 1.18 x 0.06 in (Ø 30 x 1.6 mm)	Ø 1.97 x 0.04 in (Ø 50 x 1 mm)
Mounting Method	Glue, screw-on, or encapsulate							
Fixation Hole Size	None	Ø 0.13 in (Ø 3.2 mm)	Ø 0.17 in (Ø 4.3 mm)	Ø 0.47 in (Ø 12 mm)	None	Ø 0.13 in (Ø 3.2 mm)	Ø 0.17 in (Ø 4.3 mm)	
Affixes To	Glass, plastic, wood							
Housing Material	Epoxy							
Color	Black							
CHEMICAL AND MECHANICAL								
Water	IP67, 68° F (20° C), 3.3 ft (1 m) x 1 h							
Withstands Exposure To	Ethanol, fuel, mineral oils, petroleum							
Environmental Test Conditions	68° F (20° C), 100 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	-40° to +185° F (-40° to +85° C), 1000 h							
Operating	-13° to +185° F (-25° to +85° C)				-40° to +185° F (-40° to +85° C)			
Shock/Fatigue	-13° to +212° F (-25° to +100° C), 50 x 5 min with 20 sec transition							
Peak	284° F (140° C), 1 x 24 h			248° F (120° C), 1 x 24 h	284° F (140° C), 1 x 24 h			
OTHER								
Options	Custom printed logo							
Warranty	2 Years							

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