Epoxy Tag

Micro thin RFID tags that withstand extreme environments

HID Epoxy Tag RFID transponders are constructed for optimal performance under harsh conditions.

Epoxy housings protect advanced integrated chips, enabling the use of RFID technology to accelerate logistics speed while improving data accuracy in a broad spectrum of rugged industrial applications.

Epoxy Tag units are resistant to fuels, mineral oils, petroleum and salt mist. They repel moisture – even in high temperature, high pressure washes.

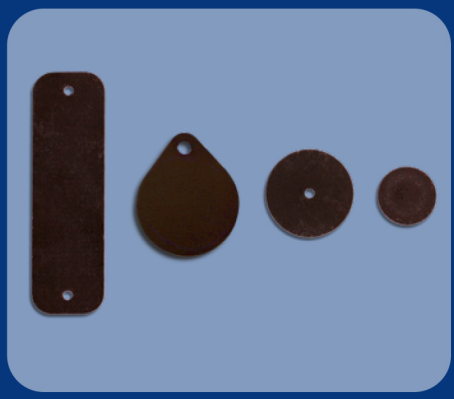
Unrelenting performance despite temperature fluctuations allows Epoxy Tag transponders to adapt to demanding applications. These tags can tolerate repeated autoclaving in medical applications, and plastic injection molding processes for permanent embedding into industrial components, equipment or containers.

Each micro thin Epoxy Tag device has a smooth surface, which may be imprinted with customized visual codes or artwork.

Epoxy Tag transponders are available in a variety of shapes and sizes, and may be adhered with glue, secured with screws, or embedded in a custom housing, depending on the application.

The Epoxy Tag Keyfob features a unique chip that optimizes NFC program security, utility, and ease-of-implementation when deployed with HID Trusted Tag® Services, a cloud-based authentication platform that adds a non-replicable identity to each interaction.

In addition, HID can create a custom Epoxy Tag solution to fit any application requirements for chip type, dimensions or programming.



KEY BENEFITS:

- Durable – resists moisture, oils, petroleum; tolerates mechanical vibration and shock
- Thermally stable – withstands exposure to temperatures from -40° F to 284° F (-40° to 140° C)
- Surface printable – enables tags scannable by both RFID and visual ID readers

TECHNOLOGY HIGHLIGHTS:

- Operating frequencies
  - LF 125 kHz
  - HF 13.56 MHz (NFC)
  - RAIN® UHF 865-956 MHz worldwide
- Withstands peak temperatures up to 284°F (140°C)
- Large, read-write memory
- Chemical and moisture resistant
- Printable surface

For more information, contact
tagsales@hidglobal.com

Epoxy Tag

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

APPLICATION AREAS:

- **Automation and manufacturing**
  - Item/box tracking through production process
  - Electronic tool identification
- **Medical and health**
  - Sterilization validation
  - Equipment identification
- **Waste management/RTI**
  - Usage-based invoicing
  - Recycling incentive programs
  - Returnable transport items
  - Asset tracking and logistics
- **Marketing**
  - Loyalty programs
  - Promotions
  - Stored-value
  - Proof of presence

Epoxy Tag

	LF Disc		HF	UHF
	20 mm	30 mm	Keyfob	
				
Base Model Number	624112	601143	6D6140-101	6M6970-101
	ELECTRONIC			
Operating Frequency	125 kHz		13.56 MHz	865-956 MHz (Worldwide)
Chip Type	Hitag S	Unique	HID Trusted Tag*	M730
Memory	2048 bit EEPROM	64 bit read-only	8 KB	128 bit EPC
Anit-collision	Yes			Yes
Reading Distance	Dependent upon reader, environment and application		Proximity (NFC Tap)	20 ft (6 m)
	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)	1.2 x 1.8 x 0.06 in (30 x 45 x 1.6 mm)	3.3 x 1.0 x 0.04 in (83 x 25 x 1 mm)
Mounting Method	Glue, screw-on, or encapsulate			
Fixation Hole Size	None	Ø 0.13 in (Ø 3.2 mm)	Ø 0.2 in (Ø 5 mm)	Ø 0.12 in (Ø 3.0 mm)
Affixes To	Glass, plastic, wood			
Housing Material	Epoxy			
Color	Black			
	CHEMICAL AND MECHANICAL			
Water	P68, IP69K, 176° F (80° C), 100 bar x 30 sec			
Withstands Exposure To	Fuel B, mineral oil, petroleum, salt mist, vegetable oil			
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]			
Drop Test	100 drops 5.9 ft (1.8 m)			
	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	-40° to +194° F (-40° to +90° C), 100 x 5 min with 30 sec transition			
Peak	284° F (140° C), 24 h			
	OTHER			
Standards			ISO 14443A - NFC Tag Type 4	ISO/IEC 18000-6C; EPC Global Class 1 Gen 2
Options	Custom printing or laser engraving; custom sizes; self-adhesive; or alternative chips e.g. MIFARE, NTAG			
Box Size	1.000 pcs.	500 pcs.	250 pcs	1.000 pcs.
Warranty	2 Years			

** Encoded by HID with your unique Trusted Tag® Services identity.*

2023-01-18-hid-rfid-il-epoxy-family-tag-ds-en PLT-00273
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