

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

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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

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	LF Disc	HF	UHF
	30 mm	Keyfob	
			
Base Model Number	601143 -001	6D6140-101	6M6970-101, 6H2970 (MR6-P)
	ELECTRONIC		
Operating Frequency	125 kHz	13.56 MHz	865-928 MHz (Global)
Chip Type	Unique	HID Trusted Tag*	M730, MR6-P
Memory	64 bit read-only	8 KB	128 bit EPC
Anit-collision			Yes
Reading Distance	Dependent upon reader, environment and application	Proximity (NFC Tap)	20 ft (6 m)
	PHYSICAL		
Dimensions	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	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 60068-2-27:2008 [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	-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	500 pcs.	250 pcs.	1.000 pcs.
Warranty	2 Years		

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



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