Glass Tag

Versatile low and high frequency asset tags with exceptional durability



HID Global's Glass Tag passive contactless transponders can be easily inserted or molded into a variety of materials, to enable automated asset identification and management applications using radio frequency identification (RFID).

Manufactured with patented HID Global DBond™ technology, these tags deliver exceptional size to performance ratios, in both low frequency and high frequency applications.

HID uses fully automated processes to produce glass RFID tags, ensuring consistent quality and reliability. Additionally, automation allows HID to meet growing demand for value and innovation, optimal performance and low unit cost.

The glass enclosure ensures reliable transponder performance, despite potentially harsh conditions in finished tag production and field use.

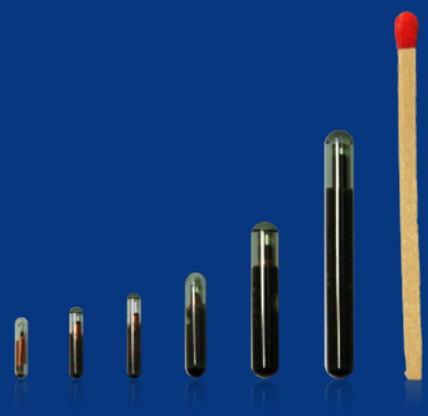
The inherent properties of glass protect embedded electronics from exposure to harsh chemicals, ensure that tag readability is unaffected by immersion in liquids, and provide excellent stability over fluctuating temperatures.

Glass Tag devices can be embedded into custom housings and mounted on virtually any surface, such as metal, plastic, wood, paper and water, making them ideal for tracking any form of asset, including but not limited to: tools, equipment, pharmaceuticals, production inventory, metallic kegs, gas cylinders or waste containers.

Among the latest HID innovations, Glass Tag Ultra transponders provide greater read-range performance than any low frequency tags of comparable size, and a generous 512 bits of read-write memory.

HF glass tags with patented DBond™ Vigo™ technology are fully ISO 15693 compliant, offering large 1.664 bit of user memory and excellent performance in a small form factor.

In addition, rod-shaped transponder units are also available without glass enclosures, for embedding in custom housings.



KEY BENEFITS:

- **Unsurpassed quality –** fully automated manufacturing and technology ensure tag reliability
- **Comprehensive portfolio –** choose from a broad range of standard sizes and integrated chips, or customize to fit any application
- **Rugged reliability –** high resistance to chemicals, thermal fluctuation, and immersion into liquid

TECHNOLOGY HIGHLIGHTS:

- Available anti-collision in LF and HF
- Memory storage options: from 64 bit read-only to 2048 bit read-write
- Standard lengths from 0.31 in (8 mm) to 0.86 in (22 mm); custom sizes available
- Embeddable in a broad spectrum of potential enclosure materials
- Unlimited resistance to water and chemical absorption
- High stability over fluctuating temperatures

For further 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.

INDUSTRY AND LOGISTICS:

- **Asset tracking and logistics**
  - Crate or carton fleet management
  - Waste management
- **Automation and manufacturing**
  - Inventory tracking
  - Warranty validation
- **Medical and health**
  - Equipment calibration
  - Perishable asset allocation

	Glass Tag								
	EM4305		Hitag S				Titan	Q5	
	1.4 x 8 mm	2 x 12 mm	2 x 12 mm	3 x 13 mm		4 x 22 mm	3 x 13 mm	2 x 12 mm	3 x 13 mm
									
Base Model Number	684294	628201	624201	623203	624203	623209	602203	612201	612203
	ELECTRONIC								
Operating Frequency	125 kHz								
Chip Type	EM4305		Hitag S				Titan	Q5	
Memory	512 bit EEPROM		2048 bit EEPROM	256 bit EEPROM	2048 bit EEPROM	2049 bit EEPROM	1024 bit EEPROM	264 bit EEPROM	
Anti-collision			Yes						
Reading Distance	Dependent upon reader, environment and application								
	PHYSICAL								
Dimensions	Ø 0.05 x 0.31 in (Ø 1.4 x 8 mm)	Ø 0.08 x 0.47 in (Ø 2.12 x 12 mm)		Ø 0.12 x 0.51 in (Ø 3.15 x 13.3 mm)		Ø 0.16 x 0.87 in (Ø 4 x 22 mm)	Ø 0.12 x 0.51 in (Ø 3.15 x 13.3 mm)	Ø 0.08 x 0.47 in (Ø 2.12 x 12 mm)	Ø 0.12 x 0.51 in (Ø 3.15 x 13.3 mm)
Tagging Method	External housing								
Housing Material	Bioglass								
	CHEMICAL AND MECHANICAL								
Water	IP68, 68° F (20° C), 3.3 ft (1 m) x 24 h								
Withstands Exposure To	Alcohol, ammonium chloride 25%, fuel B, HCL 10%, salt water								
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]								
	THERMAL								
Storage	-40° to +194° F (-40° to +90° C), 1000 h								
Operating	-13 °to +185° F (-25° to +85° C)	-40 °to +185° F (-40° to +85° C)	-13 °to +185° F (-25° to +85° C)						
Peak	248° F (120° C), 100 h; '284° F (140° C), 10 h								
	OTHER								
Standards	EN 60079-0:2009; EN 60079-11:2007; EN 60079-26:2007 (all glass tags)								
Options	Alternative sizes and chips (e.g. EM4200/4102, EM4305, custom programming)								
Box Size	5,000 pcs.		2,000 pcs.	1,000 pcs.		2,000 pcs.	1,000 pcs.	2,000 pcs.	1,000 pcs.
Warranty	2 Years								

CE

	Glass Tag						
	Unique			EM4305		HDX BDE	
	2 x 12 mm	3 x 13 mm	4 x 22 mm	1.25 x 8 mm	1.4 x 8 mm	3.85 x 22.5 mm	3.85 x 32 mm
							
Base Model Number	601201-001 (V1)	601203	601209	684227-001	684290-001, 684293 (BDE)	6B7252-001	6B7262-001
	ELECTRONIC						
Operating Frequency	125 kHz			134.2 kHz			
Chip Type	Unique			EM4305		HDX BDE	
Memory	64 bit read-only			512 bit EEPROM		128 bit read-only	
Anti-collision							
Reading Distance	Dependent upon reader, environment and application			Up to 35% more than standard tag of same size		Dependent upon reader, environment and application	
	PHYSICAL						
Dimensions	Ø 0.08 x 0.47 in (Ø 2.12 x 12 mm)	Ø 0.12 x 0.51 in (Ø 3.15 x 13.3 mm)	Ø 0.15 x 0.85 in (Ø 4 x 21.7 mm)	Ø 0.05 x 0.32 in (Ø 1.25 x 8.2 mm)	Ø 0.05 x 0.32 in (Ø 1.41 x 8.2 mm)	Ø 0.15 x 0.88 in (Ø 3.85 x 22.5 mm)	Ø 0.15 x 1.26 in (Ø 3.85 x 32 mm)
Tagging Method	External housing						
Housing Material	Bioglass						
	CHEMICAL AND MECHANICAL						
Water	IP68, 68° F (20° C), 3.3 ft (1 m) x 24 h						
Withstands Exposure To	Alcohol, ammonium chloride 25%, fuel B, HCL 10%, saltwater						
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]						
	THERMAL						
Storage	-40° to +194° F (-40° to +90° C)						
Operating	-40° to +194° F (-40° to +90° C)			-40° to +185° F (-40° to +85° C)	-13 °to +185° F (-25° to +85° C)		
Peak	248° F (120° C), 100 h; 284° F (140° C), 10 h						
	OTHER						
Standards						EN14803	
Options	Alternative sizes and chips (e.g. EM4305, EM4200/4102, custom programming)						
Box Size	2,000 pcs.	1,000 pcs.	2,000 pcs.	5,000 pcs.		2,000 pcs.	1,000 pcs.
Warranty	2 years						

	Glass Tag			
	Vigo		SLIX2	F-MEM
	2 x 12 mm	3 x 13 mm	4 x 22 mm	2 x 12 mm
				
Base Model Number	6B0201	6B0203	629209-012	6C9201
	ELECTRONIC			
Operating Frequency	13.56 MHz			
Chip Type	Vigo		ICODE SLIX2	F-MEM
Memory	1664 bit EEPROM		2560 bit UM	256 Bytes
Anti-collision	Yes			
Reading Distance	Dependent upon reader, environment and application			
	PHYSICAL			
Dimensions	Ø 0.08 x 0.47 in (Ø 2.12 x 12 mm)	Ø 0.12 x 0.51 in (Ø 3.15 x 13.3 mm)	Ø 0.15 x 0.85 in (Ø 4 x 21.7 mm)	Ø 0.08 x 0.47 in (Ø 2.1 x 12.0 mm)
Tagging Method	External housing			
Housing Material	Bioglass			
	CHEMICAL AND MECHANICAL			
Water	IP68, 68° F (20° C), 3.3 ft (1 m) x 24 h			
Withstands Exposure To	Alcohol, ammonium chloride 25%, fuel B, HCL 10%, saltwater			
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]			
	THERMAL			
Storage	-40° to +194° F (-40° to +90° C)			
Operating	-13 °to +185° F (-25° to +85° C)			-4° to +185° F (-20° to +85° C)
Peak	248° F (120° C), 100 h; 284° F (140° C), 10 h			
	OTHER			
Standards	ISO 15693, ISO 18000-3			
Options	Alternative sizes and chips (e.g. EM4305, EM4200/4102, custom programming)			
Box Size	2,000 pcs.	1,000 pcs.	2,000 pcs.	
Warranty	2 years			

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