

# 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.

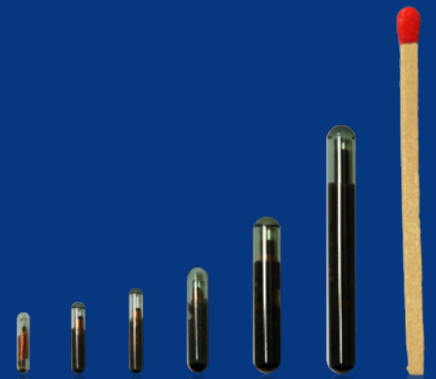
The inherent properties of glass protect embedded electronics from exposure to harsh chemicals, ensure that tag readability is unaffected by immersion in liquids, and provide excellent stability over fluctuating temperatures.

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](mailto:tagsales@hidglobal.com)

# Glass Tag



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	3 x 13 mm		4 x 22 mm	3 x 13 mm	2 x 12 mm	3 x 13 mm	
<b>Base Model Number</b>	684294	624201	623203	624203	623209	602203	612201	612203
<b>ELECTRONIC</b>								
<b>Operating Frequency</b>	125 kHz							
<b>Chip Type</b>	EM4305	Hitag S			Titan	Q5		
<b>Memory</b>	512 bit EEPROM	2048 bit EEPROM	256 bit EEPROM	2048 bit EEPROM	2049 bit EEPROM	1024 bit EEPROM	264 bit EEPROM	
<b>Anti-collision</b>	Yes							
<b>Reading Distance</b>	Dependent upon reader, environment and application							
<b>PHYSICAL</b>								
<b>Dimensions</b>	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)
<b>Tagging Method</b>	External housing							
<b>Housing Material</b>	Bioglass							
<b>CHEMICAL AND MECHANICAL</b>								
<b>Water</b>	IP68, 68° F (20° C), 3.3 ft (1 m) x 24 h							
<b>Withstands Exposure To</b>	Alcohol, ammonium chloride 25%, fuel B, HCL 10%, salt water							
<b>Environmental Test Conditions</b>	68° F (20° C), 100 h							
<b>Vibration</b>	IEC 68.2.6 [10 g, 10 to 2000 Hz, 3 axis, 2.5 h]							
<b>Shock</b>	IEC 60068-2-27:2008 [40 g, 18 ms, 6 axis, 2000 times]							
<b>THERMAL</b>								
<b>Storage</b>	-40° to +194° F (-40° to +90° C), 1000 h							
<b>Operating</b>	-13 °to +185° F (-25° to +85° C)							
<b>Peak</b>	248° F (120° C), 100 h; 284° F (140° C), 10 h							
<b>OTHER</b>								
<b>Standards</b>	EN 60079-0:2009; EN 60079-11:2007; EN 60079-26:2007 (all glass tags)							
<b>Options</b>	Alternative sizes and chips (e.g. EM4200/4102, EM4305, custom programming)							
<b>Box Size</b>	5,000 pcs.	2,000 pcs.	1,000 pcs.		2,000 pcs.	1,000 pcs.	2,000 pcs.	1,000 pcs.
<b>Warranty</b>	2 Years							



	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
							
<b>Base Model Number</b>	601201-001 (V1), 601201-002 (V4)	601203	601209	684227-001	684290-001	687252-001	687262-001
<b>ELECTRONIC</b>							
<b>Operating Frequency</b>	125 kHz			134.2 kHz			
<b>Chip Type</b>	Unique			EM4305		HDX BDE	
<b>Memory</b>	64 bit read-only			512 bit EEPROM		128 bit read-only	
<b>Anti-collision</b>							
<b>Reading Distance</b>	Dependent upon reader, environment and application			Up to 35% more than standard tag of same size		Dependent upon reader, environment and application	
<b>PHYSICAL</b>							
<b>Dimensions</b>	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)
<b>Tagging Method</b>	External housing						
<b>Housing Material</b>	Bioglass						
<b>CHEMICAL AND MECHANICAL</b>							
<b>Water</b>	IP68, 68° F (20° C), 3.3 ft (1 m) x 24 h						
<b>Withstands Exposure To</b>	Alcohol, ammonium chloride 25%, fuel B, HCL 10%, saltwater						
<b>Environmental Test Conditions</b>	68° F (20° C), 100 h						
<b>Vibration</b>	IEC 68.2.6 [10 g, 10 to 2000 Hz, 3 axis, 2.5 h]						
<b>Shock</b>	IEC 60068-2-27:2008 [40 g, 18 ms, 6 axis, 2000 times]						
<b>THERMAL</b>							
<b>Storage</b>	-40° to +194° F (-40° to +90° C)						
<b>Operating</b>	-40° to +194° F (-40° to +90° C)			-40° to +185° F (-40° to +85° C)		-13° to +185° F (-25° to +85° C)	
<b>Peak</b>	248° F (120° C), 100 h; 284° F (140° C), 10 h						
<b>OTHER</b>							
<b>Standards</b>						EN14803	
<b>Options</b>	Alternative sizes and chips (e.g. EM4305, EM4200/4102, custom programming)						
<b>Box Size</b>	2,000 pcs.	1,000 pcs.	2,000 pcs.	5,000 pcs.		2,000 pcs.	1,000 pcs.
<b>Warranty</b>	2 years						

Glass Tag				
	Vigo		SLIX2	F-MEM
	2 x 12 mm	3 x 13 mm	4 x 22 mm	2 x 12 mm
				
<b>Base Model Number</b>	6B0201	6B0203	629209-012	6C9201
<b>ELECTRONIC</b>				
<b>Operating Frequency</b>	13.56 MHz			
<b>Chip Type</b>	Vigo		ICODE SLIX2	F-MEM
<b>Memory</b>	1664 bit EEPROM		2560 bit UM	256 Bytes
<b>Anti-collision</b>	Yes			
<b>Reading Distance</b>	Dependent upon reader, environment and application			
<b>PHYSICAL</b>				
<b>Dimensions</b>	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)
<b>Tagging Method</b>	External housing			
<b>Housing Material</b>	Bioglass			
<b>CHEMICAL AND MECHANICAL</b>				
<b>Water</b>	IP68, 68° F (20° C), 3.3 ft (1 m) x 24 h			
<b>Withstands Exposure To</b>	Alcohol, ammonium chloride 25%, fuel B, HCL 10%, saltwater			
<b>Environmental Test Conditions</b>	68° F (20° C), 100 h			
<b>Vibration</b>	IEC 68.2.6 [10 g, 10 to 2000 Hz, 3 axis, 2.5 h]			
<b>Shock</b>	IEC 60068-2-27:2008 [40 g, 18 ms, 6 axis, 2000 times]			
<b>THERMAL</b>				
<b>Storage</b>	-40° to +194° F (-40° to +90° C)			
<b>Operating</b>	-13° to +185° F (-25° to +85° C)		-4° to +185° F (-20° to +85° C)	
<b>Peak</b>	248° F (120° C), 100 h; 284° F (140° C), 10 h			
<b>OTHER</b>				
<b>Standards</b>	ISO 15693, ISO 18000-3			
<b>Options</b>	Alternative sizes and chips (e.g. EM4305, EM4200/4102, custom programming)			
<b>Box Size</b>	2,000 pcs.	1,000 pcs.	2,000 pcs.	
<b>Warranty</b>	2 years			



hidglobal.com

North America: +1 512 776 9000 | Toll Free: 1 800 237 7769

Europe, Middle East, Africa: +353 91 506 900

Asia Pacific: +852 3160 9800 | Latin America: +52 55 9171 1108

**For more global phone numbers click here**

© 2025 HID Global Corporation/ASSA ABLOY AB. All rights reserved.

2025-07-11-idx-rfid-il-glass-tag-family-ds-en

PLT-00274

Part of ASSA ABLOY