



# Glass Tag



## SAFE, RELIABLE, EFFECTIVE RFID TAGS FOR PETS, LIVESTOCK AND LAB ANIMALS

- **Unsurpassed quality** – fully automated manufacturing and direct-bonding technology ensure tag reliability
- **Optimum operation** – the highest out-of-box performance ratings in the industry, with no line-of-sight requirements
- **Comprehensive portfolio** – choose from a broad range of standard sizes and integrated chips, or customize to fit any application

Glass Tag contactless RFID transponders help manage and safeguard animals. In tag production, HID employs fully automated processes to ensure consistent quality and reliability. Patented direct-bonding technology enables more compact tag designs and optimized read ranges, delivering exceptional size to performance ratios.

Standard Glass Tag units are enclosed in biocompatible glass, making them harmless to animals. The optional parylene coating improves and accelerates tissue adhesion, preventing the movement of tags implanted subcutaneously.

Veterinary professionals trust HID quality transponders for implantation. Glass Tag units perform reliably over the long term, minimizing the potential for traumatic tag removal and replacement procedures. The variety of sizes available from HID ensures a tag to fit any animal: from fish and small mammals, to cats and dogs, to goats, sheep and horses.

Glass Tag devices help optimize livestock production and productivity,

allowing individualized management, monitoring and feed control through each animal's lifecycle.

Larger HID Glass Tag transponders are ideal for cattle, sheep and goats, and are compatible with a choice of minimally invasive tagging options, including:

- Housing each glass tube in a ceramic bolus for easy insertion through the gullet
- Embedding it in a custom housing, such as a one-piece ear tag, or bird ring
- Inserting it into the animal in an injectable format

For tracking of birds, small Glass Tag RFID tags are embeddable in bird rings or bands.

HID Glass Tag Mini and Ultra transponders deliver greater read range than any low frequency tags of comparable size. Improved read range reduces animal stress by increasing the distances between animals, reader equipment, and operators. In kind, these tags reduce stress on system operators as well.

**TECHNOLOGY HIGHLIGHTS:**

- ISO 11784 and 11785 compliant
- Multiple IC options, including EM4305, Hitag S, FDX, HDX, Unique
- Bioglass capsules with parylene coating ensure optimal biocompatibility
- Unlimited resistance to water and chemical absorption
- Memory storage up to 2048 bits
- Custom sizes and programming available



# Glass Tag



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

## SPECIFICATIONS

	Glass Tag					
	Unique	Mini			EM4305	
	12 mm	8 mm	10 mm	12 mm	22 mm	34 mm
<b>Base Model Number</b>	601201	684290	684210	684230	684250	684260
<b>ELECTRONIC</b>						
<b>Operating Frequency</b>	125 kHz	134.2 kHz				
<b>Chip Type</b>	Unique	EM4305			EM4305	
<b>Memory</b>	64 bit read-only	512 bit EEPROM			512 bit EEPROM	
<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 0.05 x 0.31 in (Ø 1.4 x 8 mm)	Ø 0.05 x 0.39 in (Ø 1.41 x 10 mm)	Ø 0.08 x 0.47 in (Ø 2.12 x 12 mm)	Ø 0.16 x 0.87 in (Ø 4 x 21.7 mm)	Ø 0.16 x 1.34 in (Ø 4 x 34.4 mm)
<b>Tagging Method</b>	Subcutaneous				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 68.2.29 [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>	ISO 11784, ISO 11785 (FDX-B)					
<b>Options</b>	Parylene coating (when ordering coating, increase base model number by one), custom programming					
<b>Box Size</b>	5,000 pcs. for GT Mini 2,000 pcs. for all GT 12mm, 12.5, 13, 22 and 22.5 mm 3,000 pcs. for all GT 9mm 300 pcs. for all GT 34 mm					
<b>Warranty</b>	2 Years					



## ANIMAL IDENTIFICATION:

### ■ Companion animals

- Cats
- Dogs
- Horses

### ■ Livestock

- Cattle
- Goats
- Sheep

### ■ Laboratory and exotic animals

- Ferrets
- Fish
- Mice and rats
- Pigeons

## SPECIFICATIONS

	Glass Tag								
	Ultra		HDX		Hitag S				
	9 mm	12.5 mm	22.5 mm	32 mm	12 mm		15 mm	22 mm	34 mm
<b>Base Model Number</b>	628230	684280	6B7250	6B7260	623230	624201	623242	623250	623260
<b>ELECTRONIC</b>									
<b>Operating Frequency</b>	134.2 kHz								
<b>Chip Type</b>	EM4305		HDX		Hitag S				
<b>Memory</b>	512 bit EEPROM		128 bit OTP		256 bit EEPROM	2048 bit EEPROM	256 bit EEPROM		
<b>Reading Distance</b>	Up to 35% greater than standard tag of same size		Dependent upon reader, environment and application						
<b>PHYSICAL</b>									
<b>Dimensions</b>	Ø 0.08 x 0.35 in (Ø 2.12 x 9 mm)	Ø 0.08 x 0.49 in (Ø 2.12 x 12.5 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)	Ø 0.08 x 0.47 in (Ø 2.12 x 12 mm)		Ø 0.12 x 0.59 in (Ø 3.15 x 15.5 mm)	Ø 0.16 x 0.87 in (Ø 4 x 21.7 mm)	Ø 0.16 x 1.34 in (Ø 4 x 34.4 mm)
<b>Tagging Method</b>	Subcutaneous		External housing		Subcutaneous			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]								
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<b>OTHER</b>									
<b>Standards</b>	ISO 11784, ISO 11785 (FDX-B)		ISO 11784, ISO 11785 (HDX)		ISO 11784, ISO 11785 (FDX-B)				
<b>Options</b>	Parylene coating (when ordering coating, increase base model number by one), custom programming								
<b>Box Size</b>	5,000 pcs. for GT Mini 2,000 pcs. for all GT 12mm, 12.5, 13, 22 and 22.5 mm 3,000 pcs. for all GT 9mm, 1,000 pcs. for all GT 32 mm 300 pcs. for all GT 34 mm								
<b>Warranty</b>	2 Years								



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2017-03-20-hid-rfid-aid-glass-tag-family-ds-en PLT-00002

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