

PRODUCT COMPARISON CHART

# Animal Identification

animal identification



Product Name	Glass Tags								E-Unit Rod	E-Unit Disc	E-Unit Packaged	
<b>Application</b>	Small size with high chemical resistance provides an ideal solution for injection and long term immersion								Embeddable RFID tags - ideal as customizable implants. Please contact HID sales for details.			
<b>Size</b>	Ø2x9 mm <sup>3</sup> , Ø2x12.5 mm <sup>3</sup>	1.4x8 mm <sup>3</sup>	1.4x10 mm <sup>3</sup>	Ø2x12 mm <sup>3</sup>	Ø2x12 mm	Ø3x15 mm	Ø3.85x22.5 mm, Ø3.85x32 mm	Ø4x22 mm	Ø4x34 mm	Ø1x7, 1.8x15 mm	Ø 20, 24 mm or custom	Ø 17.4 or 29 mm
<b>Frequency</b>	134.2 kHz				125 kHz	134.2 kHz				134.2 kHz		
<b>Standards / Protocol Support</b>	ISO 11784, ISO 11785				N/A	ISO 11784, ISO 11785				ISO 11784, ISO 11785		
<b>Chip Type</b>	EM4305		HITAG S, EM4305		Unique	HITAG S	HDX	HITAG S, EM4305		EM4305, HITAG S	EM 4305, HDX	
<b>Memory<sup>1</sup></b>	512 bit RW		256 bit RW, 512 bit RW, 2048 bit RW		64 bit RO	256 bit RW	128 bit OTP	256 bit RW, 512 bit RW		512 bit RW	512 bit RW, 128 bit OTP	
<b>Tagging Method</b>	Subcutaneous				External housing e.g. pigeon ring	Subcutaneous, primarily horses	External housing		External housing e.g. ceramic bolus (stomach)	Ear tag or customized implant	Ear tag or custom application	
<b>Operating Temperature<sup>2</sup></b>					-25 °C to +85 °C				-25 °C to + 60 °C			
<b>Storage Temperature<sup>2</sup></b>					-40 °C to +90 °C				-40 °C to + 60 °C			
<b>Peak Temperature<sup>2</sup></b>					+120 °C (100h) +140 °C (10h)		+120 °C (100h)		+120 °C (100h) +140 °C (10h)			
<b>Housing Material</b>	BIO Glass											
<b>Chemical and Environmental Resistances<sup>2</sup></b>	Water, IP68 (1m, 24h), saltwater, alcohol, HCL, fuel, ammonia								Depends on finished product			
<b>Mechanical Resistances<sup>2</sup></b>	Vibration IEC 68.2.6, shock IEC 68.2.29											
<b>Parylene Coating Available (better tissue adhesion)</b>	Yes		No		Yes		No					
<b>Warranty<sup>4</sup></b>	2 years								2 years			

## Finding what you need

HID Global has many more products to offer than fit on this page. Please refer to [hidglobal.com/rfid](http://hidglobal.com/rfid) or contact an HID representative for further assistance in evaluating these tags or selecting a solution that best fits your particular requirements.

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1 For further specification details, please see datasheets of the respective products.  
 2 HITAG S (256 bit RW), EM4305 (512 bit RW)  
 3 Optionally available with on-demand custom programming, see <http://www.hidglobal.com/main/services/on-demand/pet-programming/>

4 Warranty: Storage condition must not exceed specification for temperature, chemical, mechanical, electrical condition, storage from -25°C to + 50°C, humidity 20% to 80%

For unpackaged tags: Warranty would depend on finished product and can only be given as long as raw product is not processed / packaged