IN Tag™

Robust low, high and ultrahigh frequency RFID tags that perform in tough conditions



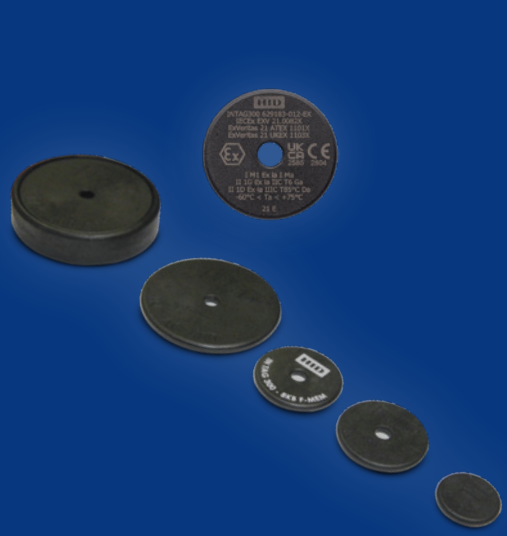
IN Tag™ passive contactless RFID transponders are highly water, chemical and shock resistant, withstand peak temperatures up to 285° F (140° C) and are UL94-HB flame resistant.

Low frequency (LF) IN Tag discs perform well affixed to virtually any surface. They offer reliable, cost-effective tagging for near-proximity reader applications, with data storage from a 64-bit user ID, up to 2048-bit read-write capability.

High frequency (HF/NFC) discs offer anti-collision technology for faster data processing, larger memory storage, and improved read ranges. Some HF IN Tag (see PN "-EX") are ATEX and IECEx certified for use in explosive environments. HF IN Tag devices are available with up to 1 kbit EEPROM or 8 kilobyte FRAM - the highest memory specified by ISO/IEC 15693. FRAM tags are radiation resistant to survive Gamma sterilization and offer an exceptional speed with up to 10 billion write cycles.

HID IN Tag RFID tags come in a variety of sizes. For LF and HF applications, tiny 0.79 in (20 mm) discs may be glued or embedded virtually anywhere. If a larger read range is required, HID offers 1.18 in (30 mm) and 1.97 in (50 mm) options, which include pre-drilled holes for screw attachment.

HID IN Tag transponders are an excellent performance-level tag. For lighter-duty applications, consider HID Epoxy Disc or World Tag™ transponders.



KEY BENEFITS:

- **Durable –** built to withstand the rigors of industrial processing, transportation and outdoor use
- **Versatile –** mounts anywhere without compromising performance: glass, plastic, or wood, with options for on metal mounting
- **Diverse selection –** broad spectrum of available frequencies, memory sizes and diameters with multiple fixation methods

TECHNOLOGY HIGHLIGHTS:

- Low Frequency (125 kHz), up to 2048 bit read-write memory
- High frequency (13.56 MHz), up to 8 kilobyte read-write memory
- Food compatible
- Flame and UV resistant
- Disc diameters of 20, 30, 50 mm
- Optional configurations for mounting on metal

For more information, contact tagsales@hidglobal.com

IN Tag™



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

APPLICATION AREAS:

Asset tracking and logistics
- Tool and equipment inventory
- Maintenance management

Automation and manufacturing
- Process automation
- Real-time materials inventory
- Food processing

Returnable transport items
- Inventory and distribution tracking
- Container maintenance

Waste management
- Bin tracking
- Recycling compliance monitoring
- Improved invoicing and service accuracy
- Route optimization
- Incentive-based waste and recycling programs

	IN Tag™					
	Low Frequency - LF					
	200	300			500	
						
Base Model Number	601182-001	623183	624183	601183-001	624185-010	601185
	ELECTRONIC					
Operating Frequency	125 kHz					
Chip Type	Unique	HITAG S		Unique	HITAG S	Unique
Memory	64 bit read-only	256 bit EEPROM	2048 bit EEPROM	64 bit read-only	2048 bit EEPROM	64 bit read-only
Anti-collision		Yes			Yes	
Reading Distance 2 W reader ERP, free space	Dependent upon reader, environment and application					
	PHYSICAL					
Dimensions	Ø 0.79 x 0.12 in (Ø 20 x 3 mm)	Ø 1.18 x 0.12 in (Ø 30 x 3 mm)			Ø 1.97 x 0.12 in (Ø 50 x 3 mm)	
Mounting Method	Embed, glue	Embed, glue, screw				
Fixation Hole Size		Ø 0.20 in (5.2 ± 0.3 mm)				
Affixes To	Glass, plastic, wood, metal					
Housing Material	PPA Polyphthalamide [ISO 1874: PA6T/6I-GF50]					
Color	Black					
Weight	0.04 oz (1.3 g)	0.11 oz (3 g)			0.34 oz (9.5 g)	
	CHEMICAL AND MECHANICAL					
Water	IP68, IP69K, 176° F (80° C), 100 bar, 30 sec. 16 l/min					
Withstands Exposure To	Fuel B, mineral oil, petroleum, salt mist, vegetable oil, [UV resistant ISO 4892-2], [food compatible, directive 02/72/EC] , [flame resistant UL94-HB]*					
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 x 5.9 ft (1.8 m)					
Axial / Radial Force	800 N / 500 N, 10 sec.					
	THERMAL					
Storage	-40° to +194° F (-40° to +90° C), 1000 h					
Operating	-13 °to +185° F (-25° to +85° C)					
Shock/Fatigue	-40° to +194° F (-40° to +90° C) 50x5 min with 30 sec transition					
Peak	284° F (140° C), 100 h					
	OTHER					
Standards	EN 60079-0:2009; EN 60079-11:2007; EN 60079-26:2007					
Box Size	1500 pcs	750 pcs			250 pcs	
Options	Custom embossed, printed or no logo					
Warranty	2 Years					

*Flame Resistance UL94-HB not applicable for spacer of INTag 500 OM or INTag 500 UHF OM.

	IN Tag™						
	High Frequency - HF						
	200	300 / 300 OM	500	200	300 2KB	300 8KB	500
							
Base Model Number	629182-012 629182-012-EX (ATEX/ IECEx) 629182-013 (FOAM) 6N3182-012 (ICODE 3)	629183-012 629183-012-EX (ATEX/IECEx) 629183-312 (OM) 6N3183-012 (ICODE 3)	629185-012 629185-312 (OM) 6N3185-012 (ICODE 3)	634182 634182-010 6D1182-010 (8 Kbytes)	634183-010	6D1183-010	634185-010
	ELECTRONIC						
Operating Frequency	13.56 MHz						
Chip Type	ICODE SLIX 2, ICODE 3			F-Mem			
Memory	2560 Bit User Memory (ICODE SLIX2), 2432 Bit User Memory (ICODE 3)			2 Kbytes or 8 Kbytes FRAM		8 Kbytes FRAM	2 Kbytes FRAM
Anti-collision	Yes						
Reading Distance **2 W reader ERP, free space**	Dependent upon reader, environment and application						
	PHYSICAL						
Dimensions	Ø 0.79 x 0.12 in (Ø 20 x 3 mm)	Ø 1.18 x 0.12 in (Ø 30 x 3 mm)	Ø 1.97 x 0.12 in (Ø 50 x 3 mm) OM: 2.17 x 0.51 in (55 x 13 mm)	Ø 0.79 x 0.12 in (Ø 20 x 3 mm)	Ø 1.18 x 0.12 in (Ø 30 x 3 mm)		Ø 1.97 x 0.12 in (Ø 50 x 3 mm)
Mounting Method	Embed, glue	Embed, glue, screw		Embed, glue	Embed, glue, screw		
Fixation Hole Size		Ø 0.20 in (5.2 ± 0.3 mm)			Ø 0.20 in (5.2 ± 0.3 mm)		
Affixes To	Glass, plastic, wood	Glass, plastic, wood, Metal (OM)	Glass, plastic, wood, Metal (OM)	Glass, plastic, wood			
Housing Material	PPA Polyphthalamide [ISO 1874: PA6T/6I-GF50]						
Color	Black						
Weight	0.04 oz (1.3 g)	0.11 oz (3 g)	0.34 oz (9.5 g)	0.04 oz (1.3 g)	0.11 oz (3 g)		0.34 oz (9.5 g)
	CHEMICAL AND MECHANICAL						
Water	IP68, IP69K, 176° F (80° C), 100 bar, 30 sec. 16 l/min						
Withstands Exposure To	Fuel B, oil, petroleum, salt mist (not applicable for 300 OM), vegetable oil, [UV resistant ISO 4892-2], [food compatible, directive 02/72/EC], [flame resistant UL94-HB]*						
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 x 5.9 ft (1.8 m)						
Axial / Radial Force	800 N / 500 N, 10 sec.						
	THERMAL						
Storage	-40° to +194° F (-40° to +90° C), 1000 h						
Operating	-40° to +185° F (-40° to +85° C)			-13° to +185° F (-25° to +85° C)			
Shock/Fatigue	-40° to +194° F (-40° to +90° C), 50x5 min with 30 sec transition						
Peak	284° F (140° C), 100 h						
	OTHER						
Standards	EN 60079-0:2009, EN 60079-11:2007, EN 60079-26:2007; ISO 15693, ISO 18000-3						
Box Size	1500 pcs	750 pcs	250 pcs (50 pcs for OM)	1500 pcs	750 pcs		250 pcs
Options	Custom embossed, printed or no logo						
Warranty	2 Years						

NFC

I M1 Ex ia I Ma
II 1G Ex ia IIC T6 Ga
II 1D Ex ia IIIC T85°C Da

For more information, contact tagsales@hidglobal.com



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