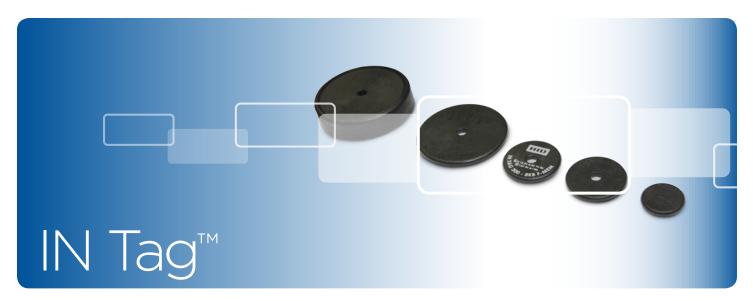
## INDUSTRY AND LOGISTICS







## **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
- Ultrahigh frequency (865 to 915 MHz), 240 bit EPC, 512 bit read-write memory
- Food compatible
- Flame and UV resistant
- Disc diameters of 20, 30, 50 mm (55 mm with spacer)
- Optional configurations for mounting on metal

## ROBUST LOW, HIGH AND ULTRAHIGH FREQUENCY RFID TAGS THAT PERFORM IN TOUGH CONDITIONS

- 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

IN Tag<sup>™</sup> passive contactless RFID transponders are highly water, chemical and shock resistant, ATEX certified for use in explosive environments, 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) discs offer anti-collision technology for faster data processing, larger memory storage, and improved read ranges. 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. Ultrahigh frequency (UHF) IN Tag RFID tags can be read from up to 9.8 ft (3 m). Entire pallets of individual containers or equipment may be identified and item level status updated, as articles roll through distribution and receiving points. They are compliant to EPC Global Class 1 Gen 2 standards and readers.

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. UHF tags come in 1.97 in (50 mm) and 2.17 in (55 mm) discs.

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



# IN Tag™





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



II 1G Ex ia IIC T4 Ga I M1 Ex ia I Ma

#### SPECIFICATIONS IN Tag™ Low Frequency 200 300 500 Base Model Number 623182 601182 623183 624183 601183 624185 601185 ELECTRONIC **Operating Frequency** 125 kHz Chip Type Hitag S Hitag S Unique Hitag S Unique Unique 2048 bit EEPROM 256 bit EEPROM 256 bit EEPROM 2048 bit EEPROM 64 bit read-64 bit read-64 bit read-Memorv only only only Anti-collision Yes Yes Yes Reading Distance 2 W reader ERP, free space Dependent upon reader, environment and application PHYSICAL Ø 0.79 x 0.12 in (Ø 20 x3 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) Dimensions Mounting Method Embed, glue Embed, glue, screw **Fixation Hole Size** Ø 0.20 in (5.2 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 Fuel B, mineral oil, petroleum, salt mist, vegetable oil, [UV resistant ISO 4892-2], [food compatible, directive 02/72/EC] , [flame resistant UL94-HB]\* То 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] IEC 68.2.29 [40 g, 18 ms, 6 axis, 2000 times] Shock Drop Test 100 x 3.28 in (1 m) Axial / Radial Force 800 N / 500 N, 10 sec. THERMAL Storage -40° to +194° F (-40° to +90° C), 1000 h -13 °to +185° F (-25° to +85° C) Operating 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 Options Custom embossed, printed or no logo

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

7 Years

Warranty

### **INDUSTRY AND LOGISTICS:**

- Asset tracking and logistics
  - Tool and equipment inventoryMaintenance management
- Automation and manufacturing - Process automation
  - Real-time materials inventoryFood processing
- Returnable transport items
  - Inventory and distribution trackingContainer maintenance

## Waste management

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

# SPECIFICATIONS

	IN Tag™												
		ency				Ultrahigh Frequency							
	200	300	500	500 OM	200	300	300 8KB	500	500 EU	500 EU OM	500 US	500 US OM	
Base Model Number	629182	629183	629185	629185-300	634182	634183	6D1183-010	634185	692185	692185-300	692186	692186-300	
ELECTRONIC													
<b>Operating Frequency</b>		<u>.</u>				865 MHz (EU) 915 MHz (US)							
Chip Type	I-Code SLIx				F-Mem				G2XM				
Memory	1024 bit EEPROM				2 Kbyte	2 Kbyte FRAM 8 Kbyte 2 Kbyte FRAM FRAM			512 bit EEPROM (64 bit TID, 240 bit EPC)				
Anti-collision	Yes												
<b>Reading Distance</b> 2 W reader ERP, free space	Dependent upon reader, environment and application							Up to 9.8 ft (3 m)					
PHYSICAL													
Dimensions	Ø 0.79 x 0.12 in (Ø 20 x 3 mm)		Ø 1.97 x 0.12 in (Ø 50 x 3 mm)	Ø 2.17 x 0.51 in (Ø 55 x 13 mm)		Ø 1.18 x 0.12 in (Ø 30 x 3 mm) Ø 50 x 3 mm)		Ø 1.97 x 0.14 in (Ø 50 x 3.5 mm)	Ø 2.17 x 0.51 in (Ø 55 x 13 mm)	Ø 1.97 x 0.14 in (Ø 50 x 3.5 mm)	Ø 2.17 x 0.51 in (Ø 55 x 13 mm)		
Mounting Method	Embed, glue Embed, glue, screw			Embed, glue				Embed, glue, screw					
Fixation Hole Size	Ø 0.20 in (5.2 mm)							Ø 0.20 in (5.2 mm)					
Affixes To				Metal, glass, plastic, wood		Glass, plastic, wood				Metal, glass, plastic, wood	Glass, plastic, wood	Metal, 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)	1.06 oz (30 g)	0.04 oz (1.3 g)	0.11 oz	z (3 g)	0.34 oz (9.5 g)	0.35 oz (10 g)	1.06 oz (30 g)	0.35 oz (10 g)	1.06 oz (30 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 68.2.29 [40 g, 18 ms, 6 axis, 2000 times]												
Drop Test	100 x 3.28 in (1 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)				-1:	-13 °to +185° F (-25° to +85° C)				-4 °to +185° F (-20° 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 18000-6C, EPC C1G2 ISO 15693, ISO 18000-3 EN 60079-0:2009; EN 60079-0:2009; EN 60079-0:2009; EN 60079-11:2007; EN										0079-26:2007		
Options		Custom embossed, printed or no logo											
Warranty						7 Yea	rs						

HID INDUSTRY AND LOGISTICS

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