HID

Inlays & Labels
- Non Metal

EFFICIENTLY TAG LARGE QUANTITIES OF NON-METALLIC ASSETS TO ENABLE POWERFUL RFID APPLICATIONS

- **Effortless integration** – Simply apply tags to any print media, packaging or non-metal assets.
- **Ready adoption** – Interoperable with NFC Forum and RAIN UHF RFID compliant devices.
- **Enhanced effectiveness** – Faster, more accurate than QR-codes or text transactions.

HID Global Inlays & Labels are small, thin self-adhesive tags that allow discreet or overt placement. They are easily hidden behind a poster or display, or inside a product housing or package; or they may be imprinted with high-visibility graphics, attracting the attention of people with smartphones or other standard RFID readers.

Promotional marketers use Inlays & Labels to quickly and cost-effectively integrate digital touch points into physical media, such as posters, packaging, point-of-purchase displays, and magazines. With Inlays & Labels in place, smartphone-wielding customers can interact in real time with your brand. Wireless technology enables effortless transactions, engaging improved customer participation and satisfaction.

NFC technology has enabled the convergence of social media, localized promotional efforts and mobile technology, empowering marketers with unprecedented tools to promote products and services while rewarding customer loyalty. Integrate the benefits of social-local-mobile (SoLoMo) technology to empower your customer conversations.

For industrial applications, HF and UHF Inlays & Labels enhance the speed and accuracy of inventory and process management systems. Using RAIN® RFID technology, each labeled asset can be identified in the supply chain or connected via Internet of Things (IoT), enabling businesses and consumers to identify, locate, authenticate and engage each item. Printable labels for on-metal use are described in a separate datasheet.

HID Global guarantees each individual RFID Inlay & Label tag will perform to specifications. Our quality assurance streamlines processing and encoding to keep your projects on time and on budget.

For high-security applications, innovative HID Trusted Tag® Services combines cryptographically secure NFC Inlays & Labels with a cloud-based authentication platform, powering frictionless, secure transactions for proof-of-presence, sweepstakes or product authentication. Ask your HID representative to demonstrate the potential of HID Trusted Tag Services.

TECHNOLOGY HIGHLIGHTS:
- Standards compliant options
  o NFC Forum Tag Type 2, 4 or 5
  o RAIN UHF RFID
- Label reels may be programmed and printed using standard equipment
- Each tag guaranteed to work
- Available also with HID Trusted Tag® Technology for added security versions for on- or off-metal use

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SPECIFICATIONS

	Inlays & Labels																
	Paper Label							**Wet Inlay**						**PET Label**			
	23	29	40	50	80 x 44	54 x 34	92 x 28	22	23	40	18 x 57	80 x 44	92 x 28	48 x 48	48 x 13	18 x 43	92 x 28
Base Model Number	6E3E23	6E3E29	6E3E40	7E4E50	6H6E80	6H2E54 (White) 6H2E54-001 (Yellow)	6H2E92	6I6500-101	6E3C23 6H5502-101 (TTS)	6E3C40	629C57	6H6C80	6H2H92	629F48	6F2F47	6F1F43	6H2F92
ELECTRONIC																	
Operating Frequency	13.56 MHz				860 to 960 MHz			13.56 MHz			860 to 960 MHz		13.56 MHz		860 to 960 MHz		
Chip Type	NTAG213 (alternative option: Trusted Tag)			ICODE SLIX-S	EM4423	Monza R6-P		HID Trusted Tag	NTAG213 (alternative option: Trusted Tag)		ICODE SLIX	EM4423	Monza R6-P	ICODE SLIX	HIGGS 4	Monza R6	Monza R6-P
Memory	144 byte EEPROM			2048 bit EEPROM	1920 bit user	128/96 bit EPC, 32/64 bit UM		144 byte EEPROM			896 bit EEPROM	1920 bit user	128/96 bit EPC, 32/64 bit UM	896 bit EEPROM	128 bit EPC, 128 bit UM	96 bit EPC	128/96 bit EPC, 32/64 bit UM
					Up to 20 ft (6 m)	Up to 26.2 ft (8 m)	Up to 46 ft (14 m)					Up to 20 ft (6 m)	Up to 46 ft (14 m)		Up to 10 ft (3 m)	Up to 23 ft (7 m)	Up to 46 ft (14 m)
PHYSICAL																	
Dimensions	ø 0.9 in (23 mm)	ø 1.1 in (29 mm)	ø 1.6 in (40 mm)	ø 2.0 in (50 mm)	3.1 × 1.8 in (80 × 44.8 mm)	2.1 × 1.3 in (54 × 34 mm)	3.6 × 1.1 in (92 × 28 mm)	ø 0.8 in (Ø 22 mm)	ø 0.9 in (23 mm)	ø 1.6 in (40 mm)	0.7 × 2.2 in (18 × 57 mm)	3.1 × 1.8 in (80 × 44.8 mm)	3.6 × 1.1 in (92 × 28 mm)	1.9 × 1.9 in (48 × 48 mm)	1.8 × 0.5 in (47.5 × 13.38 mm)	0.7 × 1.7 in (18 × 43 mm)	3.6 × 1.1 in (92 × 28 mm)
Antenna	ø 0.8 in (20 mm)		ø 1.4 in (35 mm)	ø 1.8 in (46 mm)	3 × 1.6 in (76 × 40.8 mm)	1.2 × 1.9 in (30 x 50 mm)	0.9 × 3.4 in (24 x 88 mm)	ø 0.8 in (20 mm)		ø 1.4 in (35 mm)	0.6 × 2.1 in (14 × 54 mm)	3 × 16 in (76 × 40.8 mm)	0.9 × 3.4 in (24 x 88 mm)	ø 1.8 in (45 mm)	1.7 × 0.4 in (44.45 × 10.32 mm)	0.6 × 1.6 in (14 × 40 mm)	0.9 × 3.4 in (24 x 88 mm)
Mounting Method	Self-adhesive																
Affixes To	Flat, dry and non-metallic surfaces																
Housing Material	Paper							PET									
Color	White					White or Yellow	White	Transparent						White			
CHEMICAL AND MECHANICAL RESISTANCE																	
Water	IP67, 68° F (20° C), 3.3 ft (1 m) × 35 min																
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]																
THERMAL																	
Storage	On reel, Shelf life max. 1 year at 14° to 104°F (-10° to +40°C), 30-70% relative humidity																
Operating	-4° to +158° F (-20° to +70° C)														-40° to +185° F (-40° to +85° C)		-4° to +158° F (- 20 °C to +70 °C)
OTHER																	
Standards	ISO/IEC 14443A, NFC Forum Tag Type 2			ISO/IEC 15963, 18000-3, NFC Tag Type 5	UHF EPC Class 2 Gen 2, ISO 18000-63, ISO 14443A - NFC Tag Type 2	EPC Global Class 1 Gen 2, ISO 18000-6C		ISO 14443A - NFC Tag Type 2	ISO/IEC 14443A, NFC Forum Tag Type 2		ISO/IEC 15963, 18000-3, NFC Tag Type 5	UHF EPC Class 2 Gen 2, ISO 18000-63, ISO 14443A - NFC Tag Type 2	EPC Global Class 1 Gen 2, ISO 18000-6C	ISO/IEC 15963, 18000-3, NFC Tag Type 5	EPC Global Class 1 Gen 2, ISO 18000-6C		
Options	HID Trusted Tag® (NFC Type 4 or 2) or alternative NTAG chips; Dry inlays; custom printing. Imprint of black register bar between labels when precise positioning is required (add "R" to end of part number).																
Box Size	2,000 pcs.							1,800 pcs.				2,000 pcs.		1,000 pcs.	2,000 pcs.		
Warranty	1 Year																

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