



# 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
  - NFC Forum Tag Type 2, 4 or 5
  - 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

# SPECIFICATIONS



	Inlays & Labels										
	Paper Label					Wet Inlay				PET Label	
	23	29	40	50	54 x 34	23	29	40	18 x 57	48 x 48	18 x 43
<b>Base Model Number</b>	6E3E23	6E3E29	6E3E40	7E4E50	6H2E54 (White) 6H2E54-001 (Yellow)	6E3C23	6E3C29	6E3C40	629C57	629F48	6F1F43
<b>ELECTRONIC</b>											
<b>Operating Frequency</b>	13.56 MHz				860 to 960 MHz	13.56 MHz				860 to 960 MHz	
<b>Chip Type</b>	NTAG213 (alternative option: Trusted Tag)			ICODE SLIX-S	Monza R6-P	NTAG213 (alternative option: Trusted Tag)			ICODE SLIX	Monza R6	
<b>Memory</b>	144 byte EEPROM			2048 bit EEPROM	128/96 bit EPC, 32/64 bit UM	144 byte EEPROM			896 bit EEPROM	96 bit EPC	
<b>PHYSICAL</b>											
<b>Dimensions</b>	ø 0.9 in (23 mm)	ø 1.1 in (29 mm)	ø 1.6 in (40 mm)	ø 2.0 in (50 mm)	2.1 x 1.3 in (54 x 34 mm)	ø 0.9 in (23 mm)	ø 1.1 in (29 mm)	ø 1.6 in (40 mm)	0.7 x 2.2 in (18 x 57 mm)	1.9 x 1.9 in (48 x 48 mm)	0.7 x 1.7 in (18 x 43 mm)
<b>Antenna</b>	ø 0.8 in (20 mm)		ø 1.4 in (35 mm)	ø 1.8 in (46 mm)	1.2 x 1.9 in (30 x 50 mm)	ø 0.8 in (20 mm)		ø 1.4 in (35 mm)	0.6 x 2.1 in (14 x 54 mm)	ø 1.8 in (45 mm)	0.6 x 1.6 in (14 x 40 mm)
<b>Mounting Method</b>	Self-adhesive										
<b>Affixes To</b>	Flat, dry and non-metallic surfaces										
<b>Housing Material</b>	Paper					PET					
<b>Color</b>	White				White or Yellow	Transparent				White	
<b>CHEMICAL AND MECHANICAL RESISTANCE</b>											
<b>Water</b>	IP67, 68° F (20° C), 3.3 ft (1 m) x 35 min										
<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>	On reel, Shelf life max. 1 year at 14° to 104°F (-10° to +40°C), 30-70% relative humidity										
<b>Operating</b>	-4° to +158° F (-20° to +70° C)				-4° to +158° F (-20° C to +70° C)	-4° to +158° F (-20° to +70° C)				-40° to +185° F (-40° to +85° C)	
<b>OTHER</b>											
<b>Standards</b>	ISO/IEC 14443A, NFC Forum Tag Type 2			ISO/IEC 15963, 18000-3, NFC Tag Type 5	EPC Global Class 1 Gen 2, ISO 18000-6C	ISO/IEC 14443A, NFC Forum Tag Type 2			ISO/IEC 15963, 18000-3, NFC Tag Type 5	EPC Global Class 1 Gen 2, ISO 18000-6C	
<b>Options</b>	HID Trusted Tag* (NFC Type 4) 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).										
<b>Box Size</b>	2,000 pcs.							1,800 pcs.	1,000 pcs.	2,000 pcs.	
<b>Warranty</b>	1 Year										



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