

## Inlays & Labels - On Metal



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

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

#### TECHNOLOGY HIGHLIGHTS:

- Standards compliant options
  - NFC Forum Tag Type 2
  - RAIN UHF RFID
- Label reels may be programmed and printed using standard equipment
- Each tag guaranteed to work
- Versions for on- or off-metal use

HID Global on-metal Inlays & Labels are small, thin self-adhesive NFC or RAIN® UHF tags for on-metal use. These white PET labels are only 1.2 mm thin and may be encoded and printed in standard label printers to apply logos, bar-codes, QR codes or text. Their flexible special shielding allows application on flat or curved metallic objects like liquid containers, laptops, pipes or machinery.

HID Global on-metal Labels come in five different form factors to suit various applications in an optimal size to performance ratio. NFC labels are NFC Tag Type 2 compliant and may be used with any NFC compatible phone or device. RAIN UHF labels are available in FCC (US) or ETSI (EU) variants. All labels are delivered on reels of 500 pcs. for easy processing in a label printer.

For industrial applications, HF and UHF on-metal 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.

Printable labels for off-metal use are described in a separate datasheet. 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.

# SPECIFICATIONS



	Inlays & Labels				
	HF		UHF		
Base Model Number	6E3M30	6E3M45	6H4M11 (EU) 6H4M12 (US)	6H4M71 (EU) 6H4M72 (US)	6H4M61 (EU) 6H4M62 (US)
ELECTRONIC					
Operating Frequency	13.56 MHz		869 MHz (EU) / 915 MHz (US)		
Chip Type	NTAG 213		UCODE 7		
Memory	144 byte EEPROM		96 bit EPC + 32 bit user memory or 128 bit EPC		
UHF Reading Distance on Metal 2 W reader ERP, free space			Up to 13 ft (4 m)	Up to 8.2 ft (2.5 m)	Up to 14.7 ft (4.5 m)
PHYSICAL					
Dimensions	ø 1.2 x 0.03 in (30 x 0.8 mm)	1.8 x 1.8 x 0.03 in (45 x 45 x 0.8 mm)	3.9 x 1.7 x 0.03 in (100 x 43 x 0.9 mm)	4.2 x 0.7 x 0.03 in (107 x 19 x 0.9 mm)	2.4 x 0.9 x 0.05 in (60 x 24 x 1.2 mm)
Mounting Method	Self-adhesive				
Affixes To	Metal surfaces				
Housing Material	PET (front), printable with resin ribbon				
Weight	0.07 oz (2 g)	0.16 oz (4.5 g)	0.04 oz (1.25 g)		0.03 oz (1 g)
Color	White				
CHEMICAL AND MECHANICAL RESISTANCE					
Water	IP68, 68° F (20° C), 3.3 ft (1 m) x 24h				
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	-4° to +158° F (-20° to +70° C)				
Operating	-4° to +158° F (-20° to +70° C)				
OTHER					
Standards	ISO/IEC 14443A, NFC Forum Tag Type 2		EPC Global Class 1 Gen 2, ISO 18000-6C		
Options	Custom printing and encoding				
Box Size	500 pcs. / roll				
Warranty	1 Year				



ASSA ABLOY

**Microtron**  
Flexible electronic solutions

Microtron n.v. | Generaal De Wittelaan 7 | B-2800 Mechelen | T +32 (0) 15 29 29 29 | info@microtron.be | www.microtron.be  
Microtron b.v. | Hoevestein 11 | NL-4903 SE Oosterhout | T +31 (0) 162 44 72 72 | info@microtron.nl | www.microtron.nl