

# Inlays & Labels - On Metal



## 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

## 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.

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   |   |   |
|  |  |  |  |  |  |
| <b>Base Model Number</b>   | 6E3M30  | 6E3M45  | 6KOM11 (EU)<br>6KOM12 (US)<br>6F9M11 (EU) UCODE 7XM<br>6F9M12 (US) UCODE 7XM      | 6KOM71 (EU)<br>6KOM72 (US)  | 6KOM61 (EU)<br>6KOM62 (US)  |
| <b>ELECTRONIC</b>  |   |   |   |   |   |
| <b>Operating Frequency</b>   | 13.56 MHz   |   | 869 MHz (EU) / 915 MHz (US)   |   |   |
| <b>Chip Type</b>   | NTAG 213  |   | UCODE 8   |   |   |
| <b>Memory</b>  | 144 byte EEPROM   |   | 96 bit EPC + 32 bit user memory or 128 bit EPC (UCODE 7XM : 2048 bit user memory) |   |   |
| <b>UHF Reading Distance on Metal</b><br>2 W reader ERP, free space | Up to 16 ft (5 m)   |   |   |   |   |
| <b>PHYSICAL</b>  |   |   |   |   |   |
| <b>Dimensions</b>  | ø 1.2 x 0.03 in<br>(30 x 0.8 mm)  | 1.8 x 1.8 x 0.03 in<br>(45 x 45 x 0.8 mm)   | 3.9 x 1.7 x 0.04 in<br>(100 x 43 x 1 mm)  | 4.2 x 0.7 x 0.04 in<br>(107 x 19 x 1 mm)  | 2.4 x 0.9 x 0.05 in<br>(60 x 24 x 1.2 mm)   |
| <b>Mounting Method</b>   | Self-adhesive / optional: Acrylic glue  |   |   |   |   |
| <b>Affixes To</b>  | Metal surfaces  |   |   |   |   |
| <b>Housing Material</b>  | PET (front), printable with resin ribbon  |   |   |   |   |
| <b>Weight</b>  | 0.07 oz (2 g)   | 0.16 oz (4.5 g)   | 0.04 oz (1.25 g)  |   | 0.03 oz (1 g)   |
| <b>Color</b>   | White   |   |   |   |   |
| <b>CHEMICAL AND MECHANICAL RESISTANCE</b>                          |   |   |   |   |   |
| <b>Water</b>   | IP68, 68° F (20° C), 3.3 ft (1 m) x 24h   |   |   |   |   |
| <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>   | -4° to +158° F (-20° to +70° C)   |   |   |   |   |
| <b>Operating</b>   | -4° to +158° F (-20° to +70° C)   |   |   |   |   |
| <b>OTHER</b>   |   |   |   |   |   |
| <b>Standards</b>   | ISO/IEC 14443A, NFC Forum Tag Type 2  |   | EPC Global Class 1 Gen 2, ISO 18000-6C  |   |   |
| <b>Options</b>   | Custom printing and encoding  |   | Alternative UCODE 7 chip as long as supplies last. Custom printing and encoding   |   |   |
| <b>Box Size</b>  | 500 pcs. / roll   |   |   |   |   |
| <b>Warranty</b>  | 1 Year  |   |   |   |   |



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