UHF RFID TOM® (Tag On Metal) Labels
Flexible Ultra High Frequency On-Metal Tags

Portfolio of thin, flexible UHF tags provides the highest performance for metallic surfaces.

Our UHF RFID TOM® (Tag On Metal) Label portfolio provides a solution for every on-metal application. The solution is perfect for all industrial applications on metal surfaces. Use the tags for any metallic item, regardless if the surface is flat or bent.

UHF TOM Base
- For application on metal and nearly every type of surface
- Good read range: ~ 4.5 m (greater range on non-metallic)
- Great performance in small-sized label

UHF TOM Pro
- More resistant against surrounding interfering materials
- Excellent read range: ≤ 11 m (less range on metal)
- Can be applied on convex, concave arched metal surfaces

Flexible, Soft
- Planar soft shape delivered via roll
- No expensive plastic or ceramic case is needed
- Foam based and thin (~1 mm)

On Metal
- Good performance on metallic surfaces

IoT Use Cases
- Container tracking
- Metallic commodities and goods
- Bike tracking
- Automotive (i.e., car parts)

UHF TOM Pro Advantages
- More resistant against surrounding interfering materials
- Higher read range
## Specifications

<table>
<thead>
<tr>
<th></th>
<th>UHF TOM Base</th>
<th>UHF TOM Pro</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>IC Code</strong></td>
<td>NXP UCODE8</td>
<td>NXP UCODE8</td>
</tr>
<tr>
<td><strong>RF Protocol</strong></td>
<td>EPC global V.2.0.1</td>
<td></td>
</tr>
<tr>
<td><strong>Thickness</strong></td>
<td>~ 1.3 mm</td>
<td>~ 1.2 mm</td>
</tr>
<tr>
<td><strong>Read Range</strong></td>
<td>5.5 m</td>
<td>≤ 11 m</td>
</tr>
<tr>
<td><strong>EPC Memory Size</strong></td>
<td></td>
<td>128 bit</td>
</tr>
<tr>
<td><strong>Inlay</strong></td>
<td>UHF 860MHz to 960MHz Identiv Smart Inlays</td>
<td></td>
</tr>
<tr>
<td><strong>Label Size</strong></td>
<td>30 x 75 mm</td>
<td>34 x 113 mm</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>Alu etched on PET substrate</td>
<td></td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-20°C ~ 70°C (-4°F ~ 158°F), at &lt; 60%RH</td>
<td>10°C ~ 25°C (50°F ~ 77°F), ≤ 60% RH</td>
</tr>
<tr>
<td><strong>Storage Life</strong></td>
<td>1 year under desiccated condition; 10°C ~ 25°C (50°F ~ 77°F), ≤ 60% RH</td>
<td></td>
</tr>
<tr>
<td><strong>ESD Voltage Immunity</strong></td>
<td>≤ ±1kV, human body model (HBM), according to IC specification</td>
<td></td>
</tr>
<tr>
<td><strong>Product Part Number</strong></td>
<td>LAPADUE0251 (ETSI-version)</td>
<td>LA1PADUE0306 (ETSI-version)</td>
</tr>
<tr>
<td></td>
<td>LA1PADUE0250 (FCC-version)</td>
<td>LA1PADUE0307 (FCC-version)</td>
</tr>
</tbody>
</table>

### Graphs

- **BASE ETSI**
  - Theoretical read range (m) vs. Frequency (MHz) for different materials.
- **PRO ETSI**
  - Theoretical read range (m) vs. Frequency (MHz) for different materials.
- **BASE FCC**
  - Theoretical read range (m) vs. Frequency (MHz) for different materials.
- **PRO FCC**
  - Theoretical read range (m) vs. Frequency (MHz) for different materials.

Identiv (NASDAQ: INVE) is a global provider of physical security and secure identification. Identiv’s products, software, systems, and services address the markets for physical and logical access control, video analytics and a wide range of RFID-enabled applications. For more information, visit identiv.com or email sales@identiv.com.

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