# UHF Mount On Metal Tag
# IDT FERRIC™ 50

**UHF** · **Low Cost** · **IP 68** · **Durable** · **Reusable**

The IDT Ferric 50 is a highly advanced RFID tag that is designed for on-metal tagging and offers long-range communication capabilities. This compact tag is available in two frequency bands - 865-868 MHz (ETSI) and 902-928 MHz (FCC) - to suit different applications. The Ferric 50 is compact enough to be used in a wide range of applications, including asset tracking, returnable transport units (RTUs), and supply chain management. It is ideal for industrial logistics and manufacturing, where reliable and accurate tracking of assets is essential for efficient operations.

## PHYSICAL PARAMETERS

| | |
|---|---|
| **Dimensions** | 52.5mm x 52.5mm x 10mm |
| **Weight** | 8gm ± 2 |
| **Encasement / Material** | ABS/PVC |
| **Packaging** | Premium Plastic Packing |

## ENVIRONMENTAL SPECIFICATIONS

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|---|---|
| **Operating Temperature** | -40°C to +85°C |
| **Storage Temperature** | -40°C to +85°C |
| **Chemical Resistance** | Resistant To Chemical Solvent and Moisture |
| **Shock & Vibration** | MIL STD 810-G |
| **Attachment** | Adhesive, Rivets & Screws, Magnets |
| **Sealing** | IP 68 |

## FERRIC 50 DIMENSION



52.5mm

52.5mm
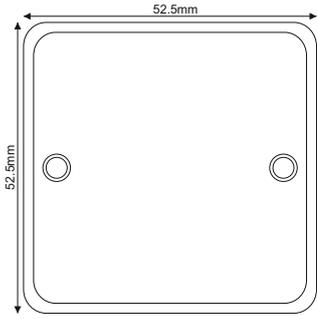
## UHF PERFORMACE

| | |
|---|---|
| **Working Frequency** | 865 – 868 MHz (ETSI) / 902 – 928 MHz (FCC) |
| **Standard Protocol** | ISO/IEC 18000-6C, EPC Class 1 Gen 2v2 |
| **Chip Type** | Alien Higgs-9, Impinj M700/800 Series, UCODE 9 chip |
| **EPC Memory** | Chip Dependent |
| **TID Memory** | Chip Dependent |
| **Read Range with Fixed Reader** | Up to 6m (Reader & Chip Dependent) |
| **Read Range with Handheld Reader** | Up to 4m (Reader & Chip Dependent) |

## PERSONALIZATION

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|---|---|
| **Pre-Encoding** | Customer Specific Encoding of EPC |
| **Customized Printed** | Customer Specific Layout Including Logo, Text, Numbers, Barcode, etc. |

## ORDER INFORMATION

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|---|---|
| **Part No.** | IDT.RF.T.FE.50.BL (Blank) |
| | IDT.RF.T.FE.50.AI (Adhesive Indoor) |
| | IDT.RF.T.FE.50.AO (Adhesive Outdoor) |
| | IDT.RF.T.FE.50.MR (Magnets / Rivets) |

## APPLICATION AREA



Manufacturing    Aviation    Logistics    Supply Chain    Warehouse