

Features

Smaller footprint and lower profile while still achieving excellent read range sets this product apart from others
Patented inlay design obtains excellent read ranges regardless of surface—metal, plastic, even wood
Subsurface printing on durable polyester protects printed copy against moderate solvents and caustics/acids
Excellent read range in European frequency
Compatible with RFID Tracking Software

The closest thing you will find to a one-size-fits-all RFID solution! The European Universal Mini RFID Tag is a surface-independent tag that uses a unique inlay design and passive RFID technology to obtain excellent read ranges regardless of the surface – metal, plastic, even wood allowing you to use only one RFID tag for your asset tracking application.

The European Universal Mini RFID Tag features an inlay design that offers the lowest profile of any tags in its class – solving a common issue many customers have with other metal mount RFID tags where a thick standoff creates an obtrusive nuisance for the

user.

This unique inlay adheres to a subsurface printed label constructed of durable, yet flexible polyester. This process protects the copy, logo, and/or barcode against moderate solvents and caustics/acids while our four-color processing capabilities allow you to promote your company with a label that shows off your company name or logo. Our digital printing process ensures even the most

Product Print Options

Product Functionality

Popular Applications

Category

Barcode . Data Matrix . QR Code . RFID . Serial Number . Text

Abrasion Resistance . Chemical Resistance . Heat Resistance

Government . Inventory . Museum .
Restoration . Transportation / Logistics .
Utilities . Warehouse / Distribution Centers . Wineries / Breweries . Construction / Tool Tracking . Hospitals . IT Assets .
Manufacturing . Schools

Asset Tracking - RFID . RFID Tags





detailed logos will look crisp and clean.

Potential Applications For European Universal Mini RFID Tag

Asset Tracking – the barcode and human readable ID number on European Universal Mini RFID Tag can be used to track information about the metal asset the RFID tag is adhered to, i.e., laptops, furniture, containers, equipment and more.

Work-in-Process – the barcode and/or identification number on European Universal Mini RFID Tag can identify a "batch" OR "lot" of product or just simply identify each product as it travels through the production process.

Specifications Data

| Serialization Bar code and human-readable equivalent are produced using the latest high-resolution digital technology available, which provides excellent clarity and easy scanning. Code 39 is the standard symbology with a range of 2.7 to 9.4 CPI (characters per inch). Optional linear and 2D symbologies available. Label Copy The label copy may include block type, stylized type, logos or other designs. All copy, block type, stylized type, logos, designs, and bar code are subsurface printed. Colors Choose from our standard colors (black, blue, red, green, dark blue, orange, purple or yellow). The use of one or two colors is standard. Additional color options available. Custom colors also available. Metalcraft color samples available upon request. Standard Adhesive High performance adhesive Requency Range 865 - 868 MHZ Sizes 70mm x 19mm Produced and shipped in roll form. | Material | Inlay wrapped around .79mm closed cell foam. |
|---|---------------|---|
| Standard Adhesive Requency Range 70mm x 19mm Choose from our standard colors (black, blue, red, green, dark blue, orange, purple or yellow). The use of one or two colors is standard. Metalcraft color samples available upon request. Standard Adhesive 865 - 868 MHZ Sizes | Serialization | clarity and easy scanning. Code 39 is the standard symbology with a range of 2.7 to 9.4 CPI (characters per inch). Optional linear and 2D |
| Additional color options available. Custom colors also available. Metalcraft color samples available upon request. Standard Adhesive Frequency Range Sizes 70mm x 19mm | Label Copy | The label copy may include block type, stylized type, logos or other designs. All copy, block type, stylized type, logos, designs, and bar code are subsurface printed. |
| Adhesive Frequency Range Sizes 70mm x 19mm | Colors | |
| Range Sizes 70mm x 19mm | | High performance adhesive |
| | | 865 - 868 MHZ |
| Packaging Produced and shipped in roll form. | Sizes | 70mm x 19mm |
| | Packaging | Produced and shipped in roll form. |





Chemical Testing

Chemical soak test - The E Universal Mini tags were attached to a sheet of glass submerged in various chemicals for a 3 week period. Observations were made at the following intervals: 2 hours, 24 hours, 1 week, 2 weeks, and 3 weeks. A Motorola handheld RFID reader as well as a handheld barcode reader were used to test the samples.

Chemical Test Data

| Length of immersion | Water | Glass cleaner | Bathroom cleaner | Isopropyl alcohol 99% | Acetone | NaOH pH 1.0 | HCI pH 1.0 | Brake fluid |
|---------------------|-------------------------|---|---|-------------------------------|------------------------|------------------|----------------------------------|----------------|
| 2 hours | no effect | no effect | no effect | no effect | no effect | no effect | no effect | no effect |
| 24 hours | no effect | no effect | no effect | no effect | no effect | no effect | no effect | no effect |
| 1 weeks | no effect | no effect | RFID tag read with difficulty (significantly lower hits/second) | no read | Tag structure weakened | tag detached | no effect | no effect |
| 2 weeks | no effect | RFID tag read with difficulty (significantly lower hits/second) | RFID tag read with difficulty (significantly lower hits/second) | no read | no read | tag detached | no read | no effect |
| 3 weeks | tag peeled easily | tag peeled easily | no read; tag ppeled easily | no read; tag peeled easily | no read | tag detachedq | no read; tag peeled easily | no effect |

| Destructiv | ve Testing |
|------------|------------|
|------------|------------|

Destructive Test Data





Temperature Testing

High-temperature resistance test - These tags were attached to a sheet of glass at raised temperatures for 10 minutes. Tags were then removed from the oven and tested for readability immediately. Low-temperature resistance test - The E Universal Mini tags were attached to a sheet of glass at low temperatures outdoors. Tags were then checked for readability with a Motorola handheld RFID reader. Tags survived and were readable for 19 hours in winter conditions with temperatures between -29° (-20°F) to -32°C (-26°F) with no signs of failure.

Temperature Test Data

| Temperature | RFID read test (immediately of of oven) | Appearance of tags |
|---------------|---|---|
| 52°C (125°F) | Reads well | No change |
| 57°C (135°F) | Reads well | No change |
| 63°C (145°F) | Reads well | No change |
| 73°C (163°F) | Reads well | Slight curling at edge |
| 85°C (185°F) | Reads well | Slight curling at edge |
| 96°C (205°F) | Reads well | Slight curling at edge |
| 107°C (225°F) | Reads well | Severe curling at edge - tag discolored |
| 121°C (250°F) | Reads well | Tag destroyed |

Read Range Testing

Read Range Test Data

E Universal Mini Read Range Results (ETSI Band)

| Sample | Metal | Plastic | Wood |
|---------|-------|---------|-------|
| Average | 2.8 M | 2 M | 1.6 M |

Barcode Readibility Testing

Barcode Readability Test Data





| Abrasion Testing |
|--------------------------|
| Abrasion Test Data |
| |
| |
| |
| |
| |
| Label Adhesion Testing |
| Label Adhesion Test Data |
| |
| |
| |
| |
| |
| Pull Testing |
| Pull Test Data |
| |
| |
| |



