

Universal On Site Printable Mini RFID Tag



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
Designed for easy setup for printing and RFID encoding
Thermal transfer printer receptive
Available for Next Day Delivery

Product Print Options

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

Product Functionality

Abrasion Resistance . Chemical Resistance . Heat Resistance

Popular Applications

Audio / Visual . Inventory . Restoration . Wineries / Breweries . IT Assets . Schools

Category

On Metal RFID . Printable RFID . RFID Tags . Universal RFID

The On-Site Printable Universal Mini RFID tag is specifically designed to allow easy printing and encoding of RFID tags on-demand, providing a reliable, cost-effective solution for all your on-site printing RFID asset tag needs.

Whether your printer is located on the manufacturing floor or in a climate-controlled space, our On-Site Printable Universal Mini RFID tags have been constructed to reliably print and encode regardless of the printing location.

With a small footprint and low profile, these tags easily fit in smaller places and on assets where other tags may be too large.

Developed using the same premise as our original Universal RFID Asset Tag, the tag utilizes a patented inlay design and passive RFID technology to obtain incredible read ranges on a variety of different materials - metal, plastic, and even wood.

Our customizable adhesive options allow you to pick the best attachment adhesive for your project ensuring your tags will stay in place throughout the tracking lifecycle.

The On-Site Printable Universal Mini RFID

Universal On Site Printable Mini RFID Tag

tag is also able to be shipped the next day for a quick turnaround for your onsite printing needs. Delivered in convenient 500-piece rolls that load easily into industry-leading industrial thermal transfer printers, like SATO & Zebra brands, the On-Site Printable Universal Mini is easy to setup configure and maintain.

Specifications Data

| Material | Thermal transfer printable polyester substrate |
|-------------------|---|
| Standard Adhesive | Pressure sensitive acrylic adhesive |
| Frequency Range | Custom designed UHF inlay uses Alien Higgs 3 chip or the Impinj R6P optimized for use between 902 - 928 MHz. (UHF, Class I Gen 2) |
| Sizes | 2.75" x .75" |
| Packaging | Shipped in convenient 500-piece rolls that load easily into industry-leading industrial thermal transfer printers. |
| Shipment | Next day shipping available depending on order quantity and inlay availability. |
| | |

Chemical Testing

The Onsite Printable 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 was used to test the samples.

Chemical Test Data

| Length of immersion | Water | Glass Cleaner | Bathroom Cleaner | Isopropyl Alcohol 99% | Acetone | NaOH pH 12.0 | HCl 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 week | 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 peeled easily | no read; tag peeled easily | no read | tag detached | no read; tag peeled easily | no effect |

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 Onsite Printable 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 Iowa winter conditions with temperatures between -21 to -26°F with no signs of failure.

Temperature Test Data

| Temperature | RFID read test (immediately out of oven) | Appearance of tags |
|-------------|--|---|
| 125°F | Reads well | No change |
| 135°F | Reads well | No change |
| 145°F | Reads well | No change |
| 165°F | Reads well | Slight curling at edge |
| 185° | Reads well | Slight curling at edge |
| 205°F | Reads well | Slight curling at edge |
| 225° | Reads well | Severe curling at edge - tag discolored |
| 250° | Test failed | Tag destroyed |

Read Range Testing

In many cases the tags read intermittently for longer distances than those indicated, however, the results reported below were for continuously responding reads.

Read Range Test Data

| Sample | Metal | Plastic | Cardboard | Wood | Glass |
|---------|------------|----------|-----------|-----------|------------|
| Average | 13.47 feet | 6.8 feet | 6 feet | 9.67 feet | 13.33 feet |