

## Product profile

# SRT

## UHF Small Rigid RFID Tag



- Rugged encapsulation for harsh environments
- Consistent UHF range performance worldwide
- Gen 2 and ISO 18000-6B versions
- Superior performance on a variety of materials
- Reusable for lower cost per use
- RoHS and WEE compliant

Intermec's Small Rigid Tag (SRT) is a truly passive UHF RFID tag designed for superior performance on a variety of surfaces. The tag available in both EPC Global Class 1, Generation 2 (Gen 2) and ISO 18000-6B protocols, combines an impressive range with a rugged yet compact design, suitable for harsh industrial applications, and survival in application temperatures up to 250° F (121° C). Additionally, the small rigid tags have a wide band antenna design, which allows for a single tag to be used virtually anywhere in the world and on a variety of surfaces, including metal, plastic and wood.

The Small Rigid Tags are ideal for industrial applications where ruggedness, chemical resistance or higher temperature ratings are required and where tag size is an important consideration.

### Typical applications include:

- Reusable plastic containers (RPC)
- Metal cages
- Pallets
- Unit Loading Devices (ULD)
- Gas cylinders
- Beer kegs & other commercial beverage containers
- Hazmat containers
- Chemical containers

### Attachment Methods

The tags can be attached using screws, rivets, double-sided adhesive strips, or a variety of other methods appropriate for the application. Each tag has two mounting holes for up to #6 hardware (not included).

### Reader Compatibility

Intermec manufactures a complete line of readers that are compatible with the small Rigid Tags as indicated in the table below.

| Tag Type | Intermec Reader Models |
|----------|------------------------|
|----------|------------------------|

|                           |                                  |
|---------------------------|----------------------------------|
| EPC<br>Global<br>Gen<br>2 | IP4 Hand-Held Reader             |
|                           | IF4 Fixed Serial Reader          |
|                           | IF5 Fixed Network Reader         |
|                           | IV7 Vehicle Mount Reader         |
| ISO<br>18000-<br>6B       | IP3 Hand-Held Reader             |
|                           | IP4 Hand-Held Reader             |
|                           | Pennsylvania Fixed Serial Reader |
|                           | IF4 Fixed Serial Reader          |
|                           | IF5 Fixed Network Reader         |
|                           | IV7 Vehicle Mount Reader         |

Competitive readers conforming to the Gen 2 and ISO 18000-6B protocols can also read the tags conforming to these respective protocols.

### Temperature Ratings

The new Intermec Rigid Tags are rated for applications with temperatures ranging from -40° to 250° F (-40° to 121° C).

### Chemical Resistance

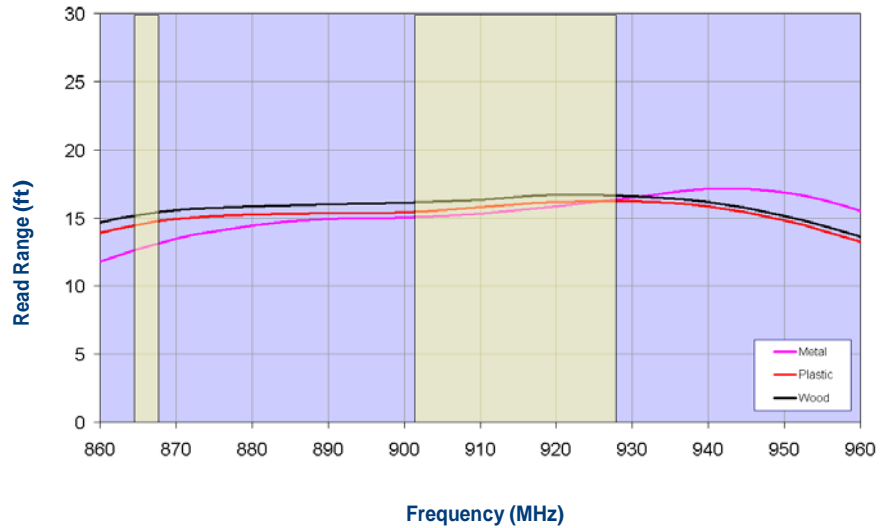
The Rigid Tags are tested for resistance to the following chemicals.

- Machining oil and fluid (long-term exposure)
- Gasoline
- Motor oil
- Methyl Ethyl Ketone (MEK)
- Isopropyl alcohol
- Methyl alcohol
- Mineral spirits
- Acetone
- Kerosene

### Optimal Frequencies of Operation

- ISO 18000-6B: 860 MHz to 930 MHz
- EPCglobal Gen 2: 860 MHz to 960 MHz

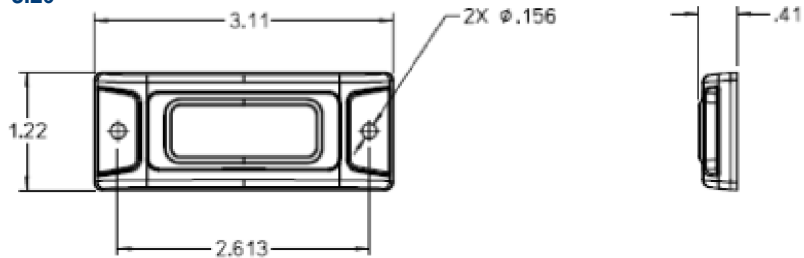
Read Range Performance of Small Gen 2 Rigid Tag



### Note

Actual range performance may vary depending on power output, temperature and other environmental factors.

### Size



### Available Silicon & Memory Size

| Air Interface                   | Silicon Type      | Memory Size | Comments  |
|---------------------------------|-------------------|-------------|---|
| EPC Global Class 1 Generation 2 | Impinj Monza      | 96 bits     | Unprogrammed  |
| ISO 18000-6B                    | Philips UCODE HSL | 2048 bits   | Includes pre-programmed and locked unique ID per ISO 18000-6B specification |



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