

## GemTRAK RFID UHF Label



### A UNIQUE FORMAT, COMPATIBLE WITH ANY PIECE OF JEWELRY

TAGSYS' GemTRAK RFID UHF Label has been specifically designed to meet the tracking requirements of the jewelry industry in terms of size, shape and ease of fixation. The UHF RFID Tag is embedded in a white patented adhesive label adaptable to any type of jewelry piece, including rings, earrings and necklaces.

The GemTRAK labels enable jewelry to be quickly and reliably identified all along their distribution chain, from warehouses to point-of-sales. Whether in bags, on trays or on shelves, several pieces of jewelry can be easily inventoried using fixed or portable RFID reading stations.

The RFID chip embedded in the label works like the jewelry's passport, containing data specific to the product it is affixed to, such as carat, origin and price.

TAGSYS' GemTRAK labels are delivered in rolls and can be programmed with a standard RFID-enabled printer.

TAGSYS develops comprehensive multi-band RFID infrastructure for item-level tracking. This universal infrastructure includes purpose-built readers and tags, as well as RFID management software, all designed to work together seamlessly, at the highest performance levels, in the most demanding environments.

With a proven track record of delivering reliable RFID systems, TAGSYS has deployed over 250 million tags and 100,000 reader systems to over 500 customers in more than 40 countries.

More information on TAGSYS can be found at: [www.tagsysrfid.com](http://www.tagsysrfid.com).



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## TECHNICAL SPECIFICATIONS

### GENERAL

#### **FREQUENCY:**

860-960 MHz

#### **OPERATION MODE:**

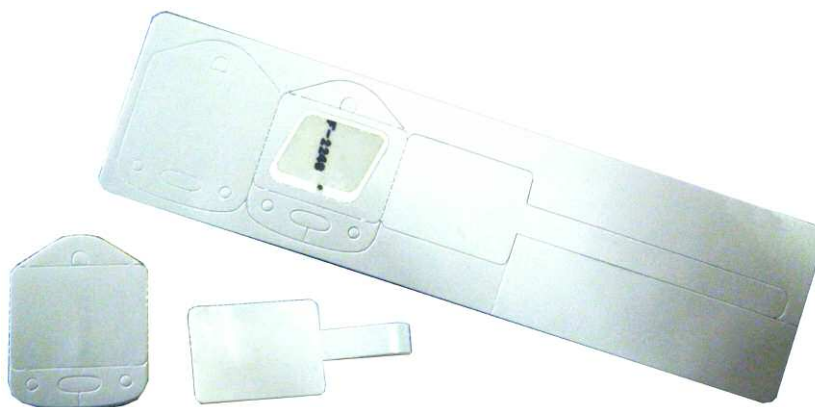
Passive

#### **LABEL DIMENSIONS:**

96mm x 25.5 mm, +/- 1mm (3.78 x 1 in, +/- 0.04 in)

#### **LABEL THICKNESS:**

0.5 mm max (0.20 in)



### RFID CHIP SPECIFICATIONS

#### **OPERATING PROTOCOL:**

Class 1 Generation 2, ISO-18000-6C

#### **MEMORY:**

Up to 240 bits ePC Code

#### **SPECIAL FEATURES:**

TID – EAS – Access / Kill Protected

#### **DATA RETENTION:**

50 years

### ENVIRONMENTAL / MECHANICAL

#### **OPERATING TEMPERATURE:**

-25°C to 70°C (-13°F to 158°F)

#### **STORING TEMPERATURE:**

-40°C to 85°C (-40°F to 185°F)

### ADHESIVE SPECIFICATIONS

Face Stock: Thermal transfer printable

Adhesive: Permanent

Liner: Transparent film

### DELIVERY

#### **DELIVERY PACKAGING:**

Single row roll (2400 units +/- 10%) packed in shrink film and cardboard box

#### **PARCEL LABELING:**

Sales reference, order number, quantity

#### **QUALITY CONTROL:**

100% final inspection