



## RFID Emergency Equipment Device Tags

### RFID FOR AEROSPACE/AVIATION

#### Key Features

- Up to 30 ft. (9.14 m) read range
- Complies with SAE AS5678B
- Multiple attachment methods include zip tie, safety wire or adhesive strip
- Customize with corporate information, text, barcodes or encoding

#### Applications

- Identification Labeling
- Asset Marking
- Asset Tracking
- Safety & Compliance

#### Ribbon Recommendations

- Wax/Resin DNP TRX-50
- Wax/Resin IMP General Purpose
- Full Resin DNP V300
- Full Resin DNP TR4070

#### Environmental Specifications

- Adhesive Minimum Application Temperature: +50 °F (10 °C)
- Temperature Range: -40 °F to +185 °F (-40 to 85 °C)
- UV Resistance: Recommended indoor use only
- Chemical Resistance: Excellent resistance to strong acids and alkaline solutions. Mild to moderate resistance to cleaning chemicals and solvents. Avoid exposure to acetone.

Quickly identify and confirm expiration dates of emergency equipment within the cabin and cargo hold during maintenance scans from up to 30 ft. RFID Emergency Equipment Device (EED) Tags are provided as a blank tag for OEMs or airlines to print and encode their own EPC and ATA Spec 2000 User Memory data.

These tags can be easily attached using a cable tie, safety wire or with the adhesive strip on the back. They are typically used specifically for the aviation industry with conformance to SAE AS5678B.

RFID Emergency Equipment Device Tags can be customized with corporate information, text or barcodes. They can also be pre-encoded. The permanent acrylic adhesive adheres to a variety of surfaces including low surface energy materials.

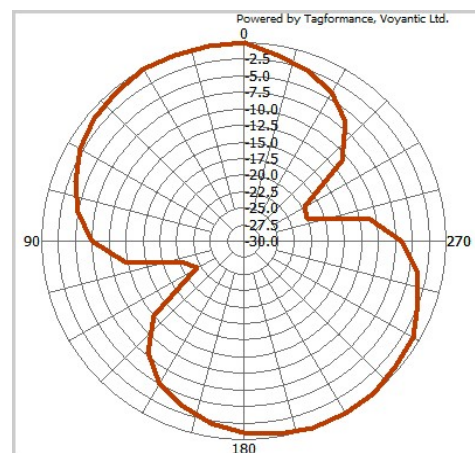
#### Material and Design Specifications

- Overall dimensions 3" x 1" x 0.025" (76.2 x 25.4 x 0.64 mm) is the standard size, other sizes available
- .005" (0.2 mm) thick permanent pressure sensitive adhesive
- 0.010" (0.3 mm) flame retardant polypropylene
- Rated for moderate to harsh indoor environments
- Tags are produced blank/no encoding \*\*optional Service Bureau thermal transfer printing and encoding compliant with ATA Spec 2000 from Metalcraft is available
- Punched printer notches for thermal transfer printing are standard

#### Technical Specifications

- **RFID Protocol:** EPC Class 1 Gen 2; ISO 18000-6C
- **Tag Type:** Passive Read/Write
- **Frequency:** 860-960 MHz (Global)
- **User Memory:** 2k bits, other options are available
- **EPC Memory:** Up to 448 bits, other options are available

#### Radiation Pattern



## Test Results

These tests were conducted for a limited period in strict laboratory conditions. To achieve maximum satisfaction, we highly recommend any customer considering use of this product test the tags in the environment in which they will be used.

**Chemical Resistance:** Samples applied to glass panels, allowed to wet out for 72 hours and immersed in chemicals below at ambient room temperature conditions.

Product - Immersion Time and Sample	Water	Salt Water 5% NaCl	Bathroom Cleaner	Glass Cleaner	Isopropanol 99%	Brake Fluid	Acetone	Diesel Fuel	Nitric Acid pH 1.0	Hydrochloric Acid pH 1.0	Sodium Hydroxide pH 12.0
EED Tag - 48 Hours	NE	NE	NE	AO/ER	AO/ER	AO/ER	TD	AO/ER, AO, TC	NE	NE	NE
Key	NE = No Effect, AO = Adhesive Ooze, AL = Loss of Adhesion to Glass Panel, TD = Tag Delaminated, ER = Adhesive Erosion, TC = Tag Curled										

**Max Temperature Exposure for EED Tag:**

Up to 300 °F (148.9 °C) for 1 hour.

**Cold Temperature Exposure:** Samples applied to glass panels at ambient room temperature conditions, then placed in a freezer set to -40 °F (-40 °C) for 24 hours. Samples checked for delamination and other defects.

Sample	Results
EED Tag	NE
Key	NE = No Effect

**Heat Tests:** 200 °F-500 °F (93.4-260 °C) - Samples applied to glass panels. The same sample was exposed to each temperature noted below for 1 hour. It was thermal transfer printed with V300 full resin ribbon.

Sample	200 °F	250 °F	300 °F	350 °F	400 °F	450 °F
EED Tag	NE	NE	NE	SS	TM	TM
Key	NE = No Effect, TD = Sample Discolored, SS = Sample Shrunken, TM = Tag Melted, PF = Print Fade					

## Installation Instructions

- Clean the surface using Isopropyl alcohol, alcohol pad or equivalent solvent to ensure surface is free from dirt, dust, oil and misc. debris that may affect adhesion.
- Handle the tag by edges, peel release liner from back ensuring not to touch the adhesive.
- Place the tag in desired tagging location and firmly apply even pressure to the tag for 5 seconds.
- Do not disturb the newly mounted tag for at least 72 hours to ensure proper adhesive seating.

