



## FT-1007 UHF

The FT-1007 Tie-Wrap RFID UHF tag offers identification and tracking capabilities never-before available in such a unique design specially created to resist in rugged or hazardous use-areas.

The plastic-covered tag is molded onto a tie-wrap and is designed to be mounted to any metallic surface by securing the tie-wrap around any pipe or round metal object.

It can withstand unprecedented high temperature (consistent temperatures of 150 degrees Centigrade), high pressure and severe environmental conditions.

### Key features

- Durable tie-wrap UHF tag
- Resistant to high temperature up to 150°C
- IP69K

## Functional specifications

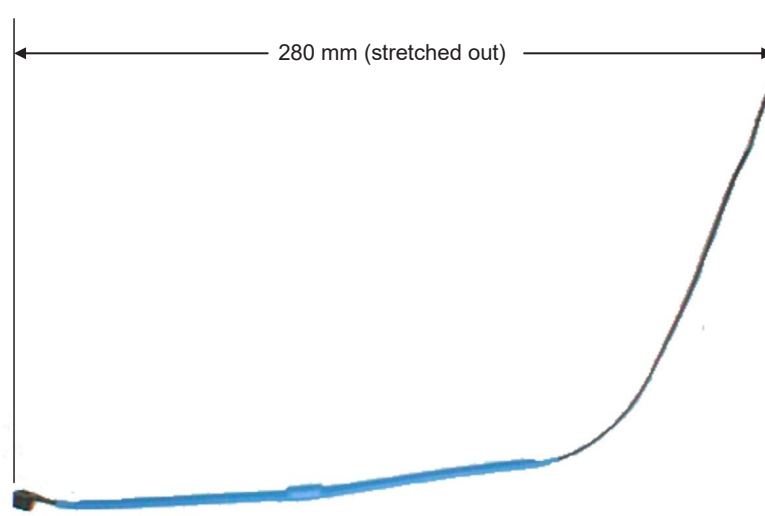
Type	UHF
Frequency	865-868 MHz (EU) 902-928 MHz (US)
Air interface protocol	EPC Global Class1 Gen2, ISO/IEC 18000-6C
IC Type	Alien Higgs3 (others on request) <b>Optional:</b> EM, Fujitsu, Impinj, NXP (others on request)
Memory	EPC 96 bit ( <b>Optional:</b> Up to 240 bit) User 128 bit. Extended memory 512 bit. TID 64 bit
Read range	1-2m

## Physical specifications

Dimensions	Standard Tie Length = 280 mm
Tag Material	Polyolefin thermoplastic
Tensile strength	2500 psi minimum
Applicable surface	Any material



V2.0  
Non-contractual datasheet



## Environmental and industry compliance

Certificates	RoHS, ATEX
Protection	IP69K
Storage Temperature	-50°C to +100°C*
Temperature Cycling Test	150°C, continuous for 30-days
Weather resistance	Excellent, including UV-resistance and sea water immersion
Chemical resistance	<p>No physical or performance changes in:</p> <ul style="list-style-type: none"> <li>- Salt water</li> <li>- NaOH (depending on concentration)</li> <li>- Sulfuric acid (depending on concentration)</li> <li>- Motor oil (tested in 168 hour exposure)</li> </ul> <p>Generally good against:</p> <ul style="list-style-type: none"> <li>- Most solvents</li> <li>- Most acids and bases</li> </ul>

\* NOTE: The RFID tag will not be functional if the tag is left at the maximum indicated temperatures such that the internal soak temperature exceeds +80 deg C. The RFID tag itself will (resume) function between -50 deg C and +80 deg C.

## Supported services

- Tag pre-encoding
- For further details, please contact AXEM Technology

## Installation

Wrap the tie-wrap around the surface and firmly pull the tie-wrap to secure the tag.

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