REDUCED DIMENSIONS FERROXTAG

REDUCED DIMENSIONS FERROXTAG, THE RIGHT CHOICE WHEN AVAILABLE FREE SPACE IS A CONCERN

Since its creation, Ferroxtag´s standard range has always been at the peak of the select group of High Frequency tags suitable for metal item identification. Its revolutionary design, with ceramic magnetic antenna makes it possible to reach the largest operating distances of the market with the smallest dimensions. Most of HF RFID tags that are supposed suitable for metal item identification, base their functionality in the use of gaps between tag´s coil and metal surface, of course, at expense of bigger dimensions (several times Ferroxtag´s one).

Ferroxcube add to its RFID tag wide range, new reduced dimensions references with almost no influence in reading distance.

Figure 1. Part of Ferroxtag reduced dimensions NEW RANGE.

REDUCED DIMENSIONS FORMAT, FERROXTAG NEW RANGE

Radio frequency identification systems exist in countless variants nowadays, each one to solve different RFID necessities from companies. Due to this need for different solutions, Reduced dimensions Ferroxtag new range, emerges for those applications where better than a big operating range, smaller tags are needed.

Figure 2. Standard dimension Ferroxtag Vs Reduced format new references.

New standard references are:

FXT0.1.3-SLI (4330 034 10261)	**Non metal items identification**	**Bare tag**	**HF (13.56MHz)** Passive technology

FEATURES

- 15.25 x3.4 x 2.45 mm – 0.4 grams.
- Operating temperature: -25ºC to +130ºC.
- Storage temperature: -25ºC to +150ºC.
- Passive resonance frequency at the air 14MHz ± 300 KHz.

Due to its reduced dimensions is perfect to be fixed in small places (safe from dirt and hits) or inserted in a moulded case, plastic box, wood pallet, etc.

FXT0.2.3-SLI (4330 034 10271)	**On metal tuning**	**Bare tag**	**HF (13.56MHz)** Passive technology

FEATURES

- 15.25 x 3.4 x 2.45 mm – 0.4 grams.
- Operating temperature: -25ºC to +130ºC.
- Storage temperature: -25ºC to +150ºC.
- Passive resonance frequency at the air 13MHz ± 300 KHz.

Due to its reduced dimensions is perfect to be fixed in small places (safe from dirt and hits) or inserted in a moulded case to be placed on metal. To avoid antenna short circuit, it is recommended to protect the bare tag with any kind of isolation before placing it on metal or use our *FXT0.2.3-SLI-**R**.*

FXT0.2.3-SLI-R (4330 034 10281)	**On metal tuning**	**Bare tag + thermo-shrink rubber**	**HF (13.56MHz)** Passive technology

FEATURES

- Protected with thermo-shrink rubber (Thickness 0.5mm aprox.)
- 15.25 x 3.4 x 2.45 mm (Bare tag). Mechanical dimensions will be increased by coating.
- Storage & Operating temperature: -25ºC to +105ºC.
- Passive resonance frequency at the air 13MHz ± 300 KHz.

Due to its reduced dimensions, this tag is perfect to be fixed in small places (safe from dirt and hits) or even inside a metal notch to be finally sealed with Epoxy or silicone. Thanks to its thermo-shrink rubber coating, it can be placed directly over the metal surface avoiding the possibility of short circuit in its antenna. ***SPECIAL TUNE AVAILABLE FOR IN METAL NOTCH APPLICATIONS.***

FXT1.1.3-SLI-X (4330 034 10241)	**Non metal items identification**	**Epoxy sealed**	**HF (13.56MHz)** Passive technology

FEATURES

- 20 x 5.6 x 6.1 mm – 1 grams.
- Storage & Operating temperature: -25ºC to +60ºC.
- Passive resonance frequency at the air 14MHz ± 300 KHz.

Designed for non metal items identification in harsh environments, its plastic case protects all tag´s internal circuitry from dust, liquids and mechanical impacts. Thanks to the hard epoxy sealant, it is specially recommended for applications where the tag is glued to the identified object. Also available with high performance ***ADHESIVE TAPE,*** for a fastest and reliable fixation (FXT1.1.3-SLI-X**T**).

FXT1.2.3-SLI-X (4330 034 10251)	**On metal tuning**	**Epoxy sealed**	**HF (13.56MHz)** Passive technology

FEATURES

- 20 x 5.6 x 6.1 mm – 1 gram.
- Storage & Operating temperature: -25ºC to +60ºC.
- Passive resonance frequency at the air 13.25MHz ± 300 KHz.

Designed for metal items identification in harsh environments, its plastic case protects all tag´s internal circuitry from dust, liquids and mechanical impacts. Thanks to the hard epoxy sealant, it is specially recommended for applications where the tag is glued to the identified object. Also available with high performance ***ADHESIVE TAPE,*** for a fastest and reliable fixation (FXT1.2.3-SLI-X**T**).

COMPLETE DATA-SHEETS CAN BE FOUND ON WEB SITE:
WWW.Ferroxtag.com

Application examples:

- Measurement instruments identification.

  In order to carry out an effective process control of the productive activity, companies must have a complete set of measurement instruments that have to be periodically checked and calibrated. Due to this fact, instruments have to be precisely identified with a unique inventory number and with the last and next calibration dates.

  With Reduced dimensions Ferroxtag, companies will be able to avoid difficult marks directly on the instrument and the tedious task of placing stickers with calibration dates.

  Ferroxtag, with 1024 bytes of re-writable memory and its 64 bits unique identifier is without any doubt the best choice to fulfill measurement instruments identification necessities.

Figure 3. Caliber Unique identified with ***FXT1.2.3-SLI-XT***

- Plastic boxes identification.

  Identify easily and with the best results plastic boxes. Our ***FXT0.1.3-SLI*** can be literally inserted into the plastic box, you only need a hand drill provided with a 5mm drill head and our small bare tag, final result will be simply perfect if straight afterwards you seal the hole with Epoxy or silicone. ***TAG WILL BE SAFE FROM HUMIDITY, DUST AND MECHANICAL IMPACTS.***

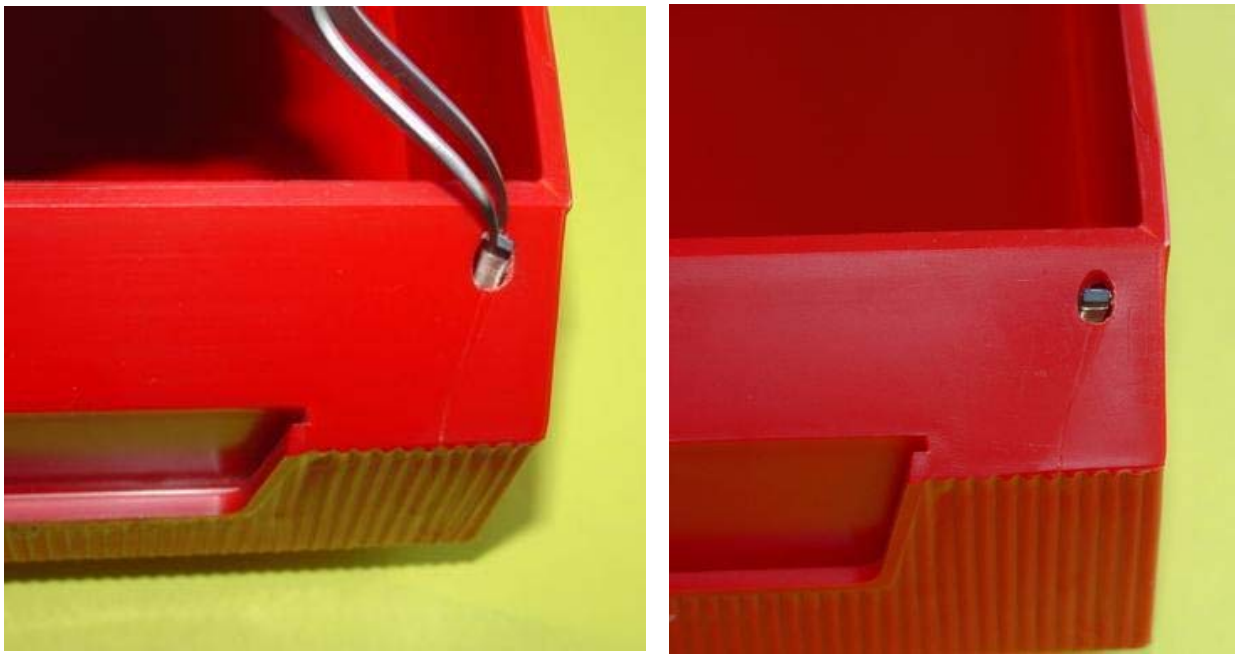

*Figure 4. Reduced format Ferroxtag (**FXT0.1.3-SLI**) inserted in a plastic box*

- In metal notch applications.

  Try with our FXT0.2.3-SLI-R reference if our standard range for in metal notch applications is not small enough. ***For more information about in metal notch applications and Ferroxtag range, visit WWW.Ferroxtag.com.***

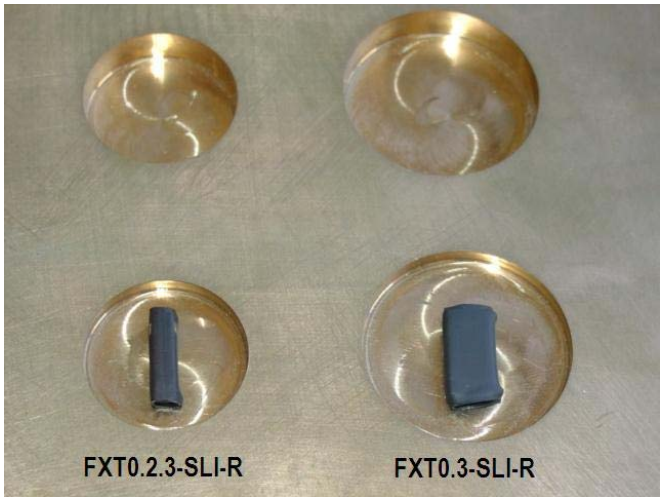

Figure 5. Reduced format Ferroxtag Vs standard range for in metal notch applications

SPECIAL TUNING AVAILABLE FOR THIS KIND OF APPLICATIONS, LET US KNOW THE NOTCH WHERE YOU WANT TO PLACE OUR TAG AND WE WILL RE-TUNE IT TO ACHIEVE THE OPTIMUM OPERATING RANGE.

WHY FERROXTAG FOR IN METAL NOTCH APPLICATIONS?

Simply because its tinny dimensions and high performance on metal or any kind of surface.

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