

RFID Products of Hitachi Chemical

UHF RFID Tag Products Just for That Purpose

■ Outline of Hitachi Chemical's RFID

Hitachi Chemical Co., Ltd. had been starting RFID business from HF contactless IC card in 1997, and expanding business area to HF (13.56MHz), Micro wave (2.45GHz) and UHF (860 - 960MHz) as of today, and now handling products all of them.

We are developing business by utilizing features of each frequency in various fields such as Finance (document control system), Amusement (game center, theme park), Public (IC Card, Tag), Foods (conveyor-belt sushi bar, auto register) Power plant (equipment control) Logistics and distribution (trace of article, inventory count, bland control). And now we introduce new UHF products for global cases.

■ New Products

Today Hitachi Chemical introduce three UHF RFID products which will be able to apply to many applications and just for that purpose. These are

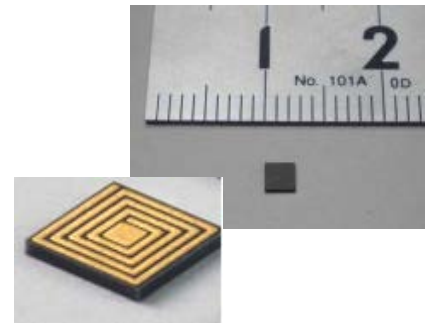
(1) **Ultra small package Tag** (2) **Document Control Tag** (3) **Weldable metallic Tag** .

All these are compliant with ISO/IEC18000-6C, EPCglobal C1Gen2.

(1) Ultra small package Tag

The tag is produced as small package tag with built-in antenna and achieve ultra small size, high durability and high productivity. The size of package is 2.5 square mm.

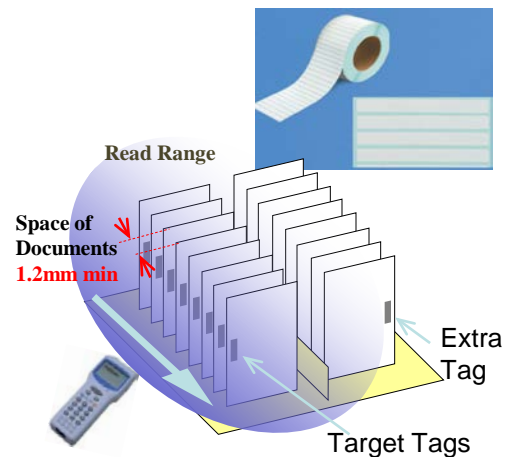
The tag is readable by standard UHF reader directly without extra antenna, and has high reliability under harsh conditions as same level as semiconductor parts, and is able to apply to various articles. And easy to expand read range with booster antenna. Therefore the tag is not only a tag itself but also as raw material for other various kind of tags such as near metal, inside molding, for heavy industry etc.



(2) Document Control Tag

The tag is optimized for document control especially to read in very narrow space of documents. Current standard tags can not read in under 5mm space of documents. And the document tag can read even 1.2mm space of documents. Read range is also optimized for scanning read to achieve 100% by one or two time reader scanning of documents in the shelf. Customer can established high cost effective system for inventory clearance and picking target of document.

We already have many actual use case for bank, hospital and library for document and book control with the document control tag.



(3) Weldable metallic Tag

The tag can be attached to metallic material directly by welding.

It is stronger and easier than other method such as screw and rivet. The tag is outer covering with stainless, and is able to apply to management and maintenance of equipment, facilities and metal materials under harsh environment.

