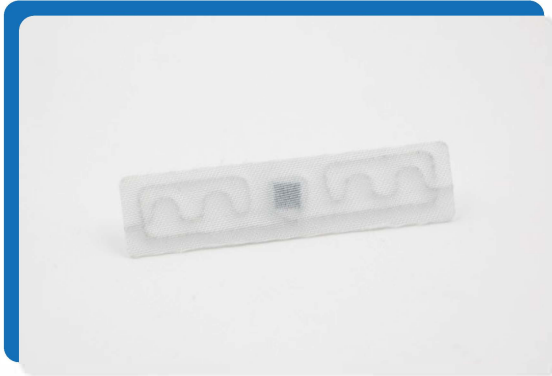


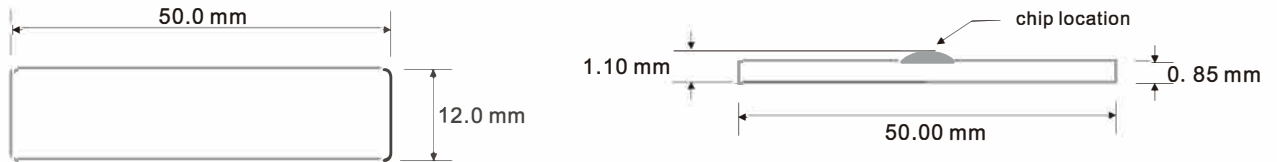
## UHF Laundry Tag



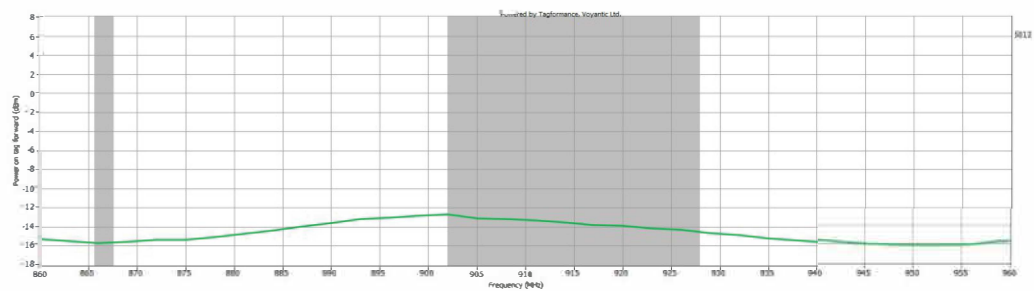
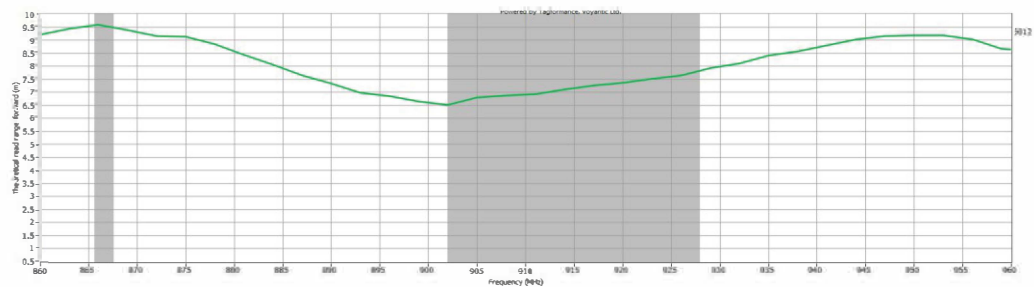
KLW5012, based on flexible antenna and woven, is a UHF laundry tag, special for linen laundry management. The tag can withstand more than 200 industrial washing cycles, with thin thickness, long reading distance, pressure and high temperature resistance. The laundry tag has a unique global identification code, by sewing/hot pressing a tag on each piece of linen. In the entire use of linen, users can do batch reading and check the linen pretty quickly by RFID reader, automatically record the use of linen, washing times. It will make the handover of washing tasks simple and transparent, and greatly improves the efficiency of inventory inspection by the UHF laundry tag. Meanwhile, users can predict the service life of the current linen and make purchase plans through the data collection of washing times.

|                                 |                                                                                                                               |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Model                           | KLW5012                                                                                                                       |
| RFID Standard                   | UHF EPC Class 1 Gen 2, ISO 18000-63                                                                                           |
| Frequency                       | 860-960 MHz (worldwide)                                                                                                       |
| Length x Width                  | 50 x 12 mm (2.0 x 0.5 in)                                                                                                     |
| Thickness                       | 1.1 mm (0.04 in) on chip location only,<br>Rest of tag is 0.85 mm (0.03 in)                                                   |
| Weight                          | 0.4 g                                                                                                                         |
| Material                        | Polyester                                                                                                                     |
| Chip Type                       | NXP Ucode 9xe                                                                                                                 |
| Memory                          | EPC: 128 bits; TID: 96 bits                                                                                                   |
| Data Storage                    | > 20 years                                                                                                                    |
| Re-write                        | 100,000 times                                                                                                                 |
| Read Range (Fixed Reader)       | > 6.5 m (21 ft)                                                                                                               |
| Read Range (Handheld Reader)    | > 2.5 m (8.0 ft)                                                                                                              |
| Installation                    | Sew: Sewn inside the hem or pouch<br>Heat-sealing: Heat-seal the tag onto the textile at 210°C and 0.6-0.8 MPa for 20 seconds |
| Warranty                        | 200 washing cycles or 3 years, whichever comes first                                                                          |
| Washing Method                  | Laundry, Dry cleaning                                                                                                         |
| Water Extraction pressure       | 60 bars                                                                                                                       |
| Chemical Resistance             | Detergent, Softener, Bleach (Oxygen/ Chlorine), Alkali                                                                        |
| Washing Temperature             | 90°C (194°F) / 15 minutes                                                                                                     |
| Pre-drying in Tumble            | 180°C (356°F) / 30 minutes                                                                                                    |
| Ironing Temperature             | 185°C (365°F) / 10 seconds                                                                                                    |
| Sterilization Temperature       | 135°C (275°F) / 20 minutes                                                                                                    |
| Humidity/ Temperature-Operating | -20~+85°C (-68~+185°F) / 8~95%RH                                                                                              |
| Personalization                 | Serial number, LOGO printing, Encoding, Antenna design. etc                                                                   |
| Applications                    | Industrial washing/Management of uniforms<br>Medical apparel management/Military clothing management                          |

## Dimensions



## Read Range(2W ERP)



## Application

