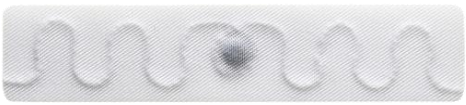
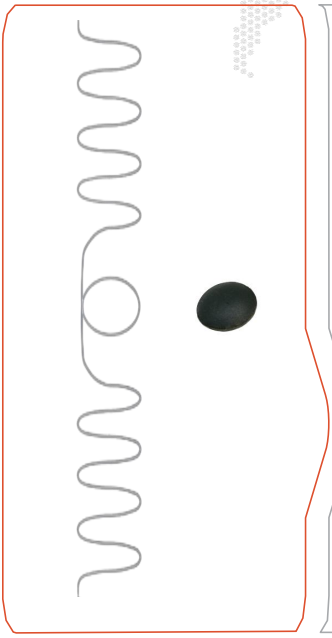
JYL-FLG7015-GAM



JYL-FL UHF Textile laundry tag is a rugged tag designed for textile products that undergo a variety of industrial laundering processes, including sterilization and ironing. It is manufactured with UHF technology (860-960 MHz) and conforms to international standards EPC Class1 Gen2 and ISO 18000. This UHF fabric laundry tag is capable of mass reading from a distance of several meters. It identifies, tracks, and manages linen and textile assets effectively. For establishments that require a constant flow of cleaning linens, uniforms, workwear, medical apparel, or cleaning supplies, laundry tags assist automated systems in tracking large numbers of individual items faster and more accurately.

The JYL-FLG7015 model is gamma compatible.

Architecture



Textile laundry tag consists of 3 main parts which can withstand harsh industrial environment for laundry processes operating for hundreds cycles.

Part1: LaundryChips
A silicon chip protection by rigid resin housing withstand harsh industrial laundry environment repeat for hundreds of circulations washing

Part2: Laundry Antenna
Antenna made of flexible, anti-oxidative stainless steel fibers, coated with Teflon, resistant to high temperature chemical detergent liquids during all laundry processes

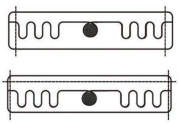
Part3: FABRIC SUBSTATE
Based on the RFID module and antenna, the components are held in place and withstand millions of shocks. The fabric material requires a series of pretreatments to keep shrinkage and deformation within minimum range, and is coated with a silicone heat adhesive as a laminating overlays to protect the laundrychip inside

Highlights

- More than 200 washing cycles (under industrial washing environment pressure 60 bars, heating at 200°C);
- Small dimensions & Maximum flexibility, with ultra-high-density bulk reading;
- Available in 3 versions: source tagging(sewn), patchable (heat-sealable) and in pouch;
- On Demand Service: Laser logo with EPC encoding in RFID chip;

Installation

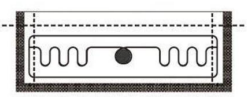
Stitching



Heat sealed



Pouching



JYL-Tech®

Specifications

Tag Type	JYL-FLG7015
Tag Dimensions	70(L) x 15(W) x 1.5(H)mm
Tag Weight(Approx.)	0.6g
Tag Warranty	200 wash cycles or 2 years from shipping date (whichever comes first)
Tag Memory	Gamma compatible chip, EPC 128 bit, User 1312bit
Data Retention	20 years
Read Distance	Up to 4 ~7 meters (ERP=2W fixed reader)
Operating Power	Passive, operates through antenna's RF field
Operating Frequency	865~928MHz
Typical Washing Cycle	Washing: 90℃ (194℉), 15 minutes, 200 cycles Pre-drying: 180℃ (356℉), 30 minutes, 200 cycles Ironing: 180℃ (356℉), 12 seconds, 200 cycles Sterilization: 135℃ (275℉), 20 minutes, 200 cycles Mechanical Resistance: Up to 60 bars
Autoclave	Air removal: +100℃(+212° F), 5mins, 0.1bar Sterilizing:+134℃(+273° F), 10mins, 3.25bar Drying:+45℃(+113° F), 15mina, 0.2bar
Patching Instruction	+215℃ (+419℉), 18 secs, 0.6-0.8 kg/cm²
Storage Temperature	-40℃ to +85℃ (-40℉ to +185℉)
Chemical Resistance	Normal common chemicals in the washing processes
Compliance	ISO/IEC 18000-6C EPC Class 1 Gen 2
Certification	Gamma Compatible

Order Code

JYL= Laundry Tag Brand **FL**=Fabric Laundry

3515/3611/5512/5815/7010/7015/7018/7510/7512/7515 = Laundry Tag Size Options

T = Tagging (to be sewn into textile)

H = Heat-Sealable (to be heat-sealed on textile)

P = Pouching (pouch with generic RFID logo embroidered)

E = Re-programmable(to be encoded on chips)

L = Laser (Numbering, Bracode, EPC laser-marked)

For example: JYL-FL7015-T = JYL Fabric Laundry sewing type Tag with 70*15mm size

