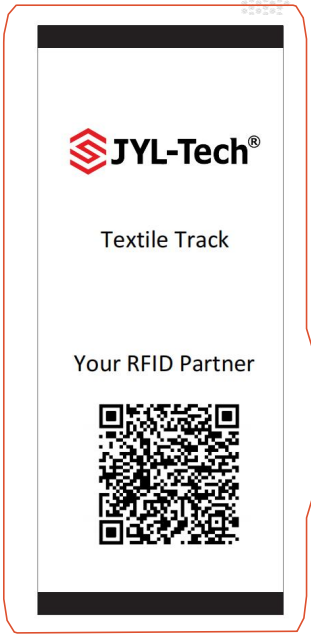
JYL-WLxxxx



JYL-WL**** integrated laundry chip labels combine fabric labels with UHF laundry chips,serving as an optimal choice for high-efficiency automated textile production lines.Supplied in roll format, these labels fit seamlessly into standard label feeding equipment, enabling tag and label integration to be finished in a single operation.Even for manual production workflows, this product simplifies the original two-step embedding process into one straightforward procedure, bringing obvious operational benefits.

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

-Laundry RFID chips are pre-embedded into woven fabric labels

-Supplied in roll form, fully compatible with mainstream automatic textile production equipment and standard label feeding systems

-Streamlines production by integrating chip embedding and label fabrication into one single process

-Customizable label designs are available to match clients' logos and specific requirements

-Outstanding read performance, perfectly suited for high-density bulk reading of flat textiles

-Fully conforms to ISO 18000-63 standard

JYL-Tech®

Specifications

Tag Type	JYL-WLXXXX
Tag Dimensions	XX(L) x XX(W) x 1.5(H)mm, length depends on the size of the laundrychip
Tag Weight(Approx.)	0.8g
Tag Memory	EPC 96bits , User 0bits
Tag Warranty	150 wash cycles
Data Retention	20 years
Read Distance	Up to 3 ~ 6 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, 150 cycles Pre-drying: 180℃ (356℉), 30 minutes, 150 cycles Ironing: 180℃ (356℉), 12 seconds, 150 cycles Sterilization: 135℃ (275℉), 20 minutes, 150 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
Storage Temperature	+215℃ (+419℉), 18 secs, 0.6-0.8 kg/cm²
Chemical Resistance	Normal common chemicals in the washing processes
Compliance	ISO/IEC 18000-6C EPC Class 1 Gen 2
Certification	OEKO-TEX®, ATP, REACH , Over 150 times Washing , ROHS , MRI Safe

Order Code

JYL= Laundry Tag Brand **WL**=Woven Laundry

9238/Customized = Woven Label RFID 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-WL9238-T = JYL Woven Label Laundry Tag sewing type 92*38mm size

