Laundry Transponder DS105

Description

The 13.56MHz passive Laundry Transponder is especially designed for tracking garments in harsh environments. Each Laundry Transponder has a unique identification number which is also laser etched on the transponder housing. The ISO IEC 15693 standard compliant Laundry Transponder can be easily sewn or thermo patched in all garments. RFID in the laundry business is also a better way to manage the uniform program:

- Eliminate human errors by providing exact information on collected and delivered garments.
- Minimize shortages. If a garment is lost while being processed, RFID will catch it so it can be replaced.
- Save handling time at on- & off-site soil laundry check-in and clean laundry check-out stations.

Specifications:

Part Number	RF-HDT-DVBB-N0
Supported Standard	ISO 15693-2,-3
Resonance Frequency (at +25°C)	13.56 MHz $\pm$ 300 kHz
Typ. required activation field strength to read / write (at +25°C)	112 dBμA/m / 115 dBμA/m
Factory programmed Read Only Number	64 bits
Memory (user programmable)	2k bits organized in 64 x 32-bit blocks
Typical programming cycles (at +25°C)	100,000
Data retention time (at +25°C)	> 10 years
Simultaneous Identification of Tags	Up to 50 tags per second (reader/antenna dependent)
Dimension	Ø 22 $\pm$ 0.2 mm x 3 $\pm$ 0.2 mm
Weight	1.6 $\pm$ 0.3 grams
Case Material	PPS, black
Protection Class	IP 68
Operating temperature	-25°C to +90°C
Storage temperature	-25°C to +120°C +160°C for total 50 hours +220°C for total 30 seconds
Vibration	ISO/IEC 68.2.6 (10g, 10..2000Hz, 3 axis, 2.5h)
Mechanical Shock	ISO/IEC 68.2.27 (100g, 6ms, 6 axis, 20 times per axis)
Mechanical Stability	Axial / Radial compression strength: 1000N / 500N (10s, static). Isostatic water pressure: 45 bar (10h)
Numbers of wash cycles	200
Chemical Resistance	Typical chemicals used in laundry & dry-cleaning processes
Delivery	1000 units in bulk

For more information, contact the sales office or distributor nearest you. This contact information can be found on our web site at: **http://www.ti-rfid.com**