XERAFY

TEX 70x15

Technical Specifications

- **RF protocol** EPC global Class 1 Gen 2; ISO18000-63
- **Frequency** 860-960 MHz (Global);
- **IC type** (chip)[1] NXP UCODE 8
- **Chip memory**[2] 128 bits EPC; 96 bits TID
- **Read range** fixed[3] Up to 39.37 ft (12 m)
- **Read range** handheld[3] Up to 26.25 ft (7.50 m)
- **Polarization** Linear

Key Features

+ **Textile:** flexible and washable
+ **100+:** commercial washing cycles
+ **12m:** long read range
+ **Cost-effective:** for high volume
+ **Printable:** texts, patterns and barcodes

Applications

- **Medical scrubs**
- **Hospital linens**
- **Hotel linens**
- **Uniforms**
- **Rental costumes**

Environmental Specifications

Temperatures

- Operational -20°C to +110°C
- Survival -20°C to +110°C
- Washing: 90°C (194° F), 15 minutes
- Pre-drying: 180°C (356°F), 30 minutes
- Ironing: 185°C (365°F), 10 seconds
- Sterilization process: 135°C (275°F), 20 minutes

- **Storage humidity** 8% - 95% RH
- **Mechanical resistance** 60 bars

Chemicals[4]

- Standard detergents, fabric softeners, bleach, oxygen/chlorine compounds, alkali substances, acetic and peracetic acid

- **Compression strength** 35.53 psi (245 kPa)
- **Vibration** MIL-STD-810G
- **Warranty** 1 year

[1] The chip data retention is up to 50 years, based on chip operating under general environment conditions.
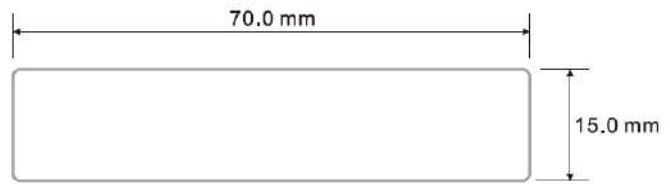[2] EPC can be re-programmed, password protected, or permanently locked. TID is locked and unique at the point of manufacturing.
[3] Off metal, actual read range may vary based upon use case and antenna power.
[4] The chemical resistance is based on the concentration of solutions and application environment. Please contact Xerafy for further details on chemical resistance.

Physical Specifications

- **Material** Textile
- **Dimensions (in)¹** 2.76 x 0.59
- **Dimensions (mm)¹** 70 x 15
- **Thickness (in)¹** 0.03 in, 0.04 in on chip location
- **Thickness (mm)¹** 0.85 mm, 1.10 mm on chip location
- **Color** White
- **Package** 1,000 pcs /bag
- **Washing method** Laundry, dry cleaning

70.0 mm

15.0 mm

Mounting Systems

Sew or heat-seal based on specific requirements, with different product P/N selections

Installation Instructions

1. Install the tag by sewing:

Sew into a hem or inside a pocket of fabric

2. Install the tag by heat-sealing:

Seal the tag onto the textile at 215°C and 0.6-0.8 MPa for 15 seconds

¹ Tolerance: +/- 0.02; +/- 0.50
² Tolerance: H: +/- 0.004; H: +/- 0.100

Industry Compliance

RAIN RFID   RoHS 2002/95/EC   REACH COMPLIANCE   CE   ETSI   FC   ISO 9001:2015   ISO 14001

Order Information

TEX 70x15 (Sew): X7015-GL010-U8	TEX 70x15 (Heat-seal): X7015-GL011-U8

Customization Options

Encoding	Laser Marking