



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
- + **200+:** 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 +85°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

Chemicals⁴



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

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

- **Compression strength** 35.53 psi (245 kPa)
- **Vibration** MIL-STD-810G
- **Warranty** 200 washing cycles or 3 years

¹ The chip data retention is up to 50 years, based on chip operating under general environment conditions.

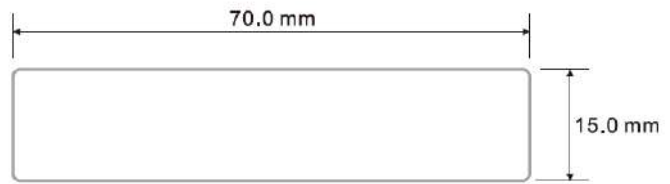
² EPC can be re-programmed, password protected, or permanently locked. TID is locked and unique at the point of manufacturing.

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



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



Order Information

TEX 70x15 (Sew): X7015-GL010-U8

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

Customization Options

Encoding

Laser Marking

The information provided by Xerafy Singapore Pte. Ltd. is for general information purposes only. All information on the datasheet is provided in good faith. However we make no representation or warranty of any kind, express or implied, regarding the accuracy, adequacy, validity, reliability, availability, or completeness of any information on the datasheet..

Under no circumstance shall we have any liability to you for any loss or damage of any kind incurred as a result of the use of the product or reliance on any information provided on the datasheet. Your use of the product and your reliance on any information on the datasheet is solely at your own risk.

