



TEX 70x15



Technical Specifications

- RF protocol EPC global Class 1 Gen 2; ISO18000-63
- Frequency 860-960 MHz (Global);

NXP

- IC type (chip)¹ NXP UCODE 9xe
- Chip memory² 128 bits EPC; 96 bits TID
- Read range fixed Up to 29.53 ft (9 m)
- Read range handheld³ Up to 23.62 ft (7.20 m)

Impinj

- IC type (chip) Impini M830
- Chip memory² 128 bits EPC; 96 bits TID
- Read range fixed³ Up to 32.81 ft (10 m)
- Read range handheld³ Up to 26.25 ft (8 m)
- White cycles 100,000 times
- Polarization Linear

Key Features

- + Textile: flexible and washable
- + 200+: commercial washing cycles
- + EECC certified: quality assurance
- + 10m: 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
- Storage humidity 8% 95% RH
- Mechanical resistance 60 bars

Chemicals⁴



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

• Vibration MIL-STD-810G

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• Warranty 200 washing cycles or 3 years

The chemical resistance is based on the concentration of solutions and application environment. Please contact Xerafy for further details on chemical resistance



 $^{^{}m 1}$ The chip data retention is up to 50 years, based on chip operating under general environment conditions.

²EPC 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



Physical Specifications

- Material Textile
- **Dimensions (in)**¹ 2.76 x 0.59
- **Dimensions (mm)**¹70 x 15
- Thickness (in) 1 0.03 in, 0.04 in on chip location, sew 0.06 in on chip location, heat-seal
- Thickness (mm)¹ 0.70 mm, 1 mm on chip location, sew 0.60 mm, 1.50mm on chip location, heatseal
- Color White
- Weight 0.80 q
- 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

70.00 mm 15.00 mm Sew: chip location 1.00 mm 0. 70 mm 70.00 mm Heat-seal: chip location 1.50 mm 0. 60 mm

70.00 mm

Industry Compliance



















Order Information

NXP

TEX 70x15 (Heat-seal): X7015-GL011-U9xe

Impinj

TEX 70x15 (Sew): X7015-GL010-M830

TEX 70x15 (Sew): X7015-GL010-U9xe

TEX 70x15 (Heat-seal): X7015-GL011-M830

Customization Options

Encoding Laser Marking¹

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¹ Tolerance: +/- 0.02; +/- 0.50

² Tolerance: H: +/- 0.004; H: +/- 0.100

¹ Since the barcode reading rate isn't 100% reliable, we do not recommend laser engraving barcodes on the heat-seal version. Please select