TEX GAMMA 70x15



Technical Specifications

- **RF protocol** EPC global Class 1 Gen 2; ISO18000-63
- **Frequency** 860-960 MHz (Global)
- **IC type** (chip)[1] Kiloway
- **Chip memory** 128 bits EPC (configurable from 96 to 240 bits), 96 bits TID, 1312 bits user memory
- **Memory type** XLPM (permanent)
- **Write cycles** one time
- **Read range** fixed[2] Up to 19.69 ft (6 m)
- **Read range** handheld[2] Up to 11.48 ft (3.50 m)
- **Polarization** Linear

Key Features

+ **Gamma-resistant:** withstand 50+ gamma sterilization cycles
+ **200+:** industrial washing cycles
+ **Textile:** flexible and washable
+ **Cost-effective:** for high volume
+ **Laser marking:** texts, patterns and barcodes

Applications

- **Cleanroom garments**
- **Medical scrubs**
- **Hospital linens**

Environmental Specifications

Temperatures

- Operational -40°C to +85°C
  -40°F to +185°F
- 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

Chemicals[3]

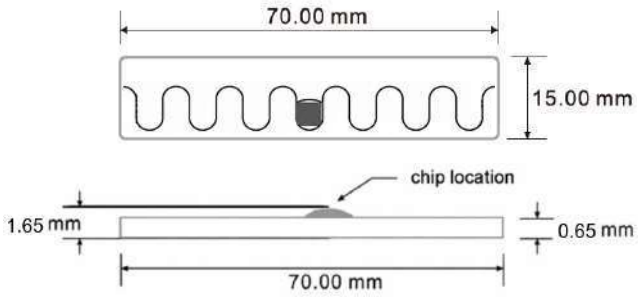
- Standard detergents, fabric softeners, bleach, oxygen/chlorine compounds, alkali substances, acetic and peracetic acid

- **Storage humidity** 8% - 95% RH
- **Water extraction pressure** 60 bar
- **Vibration** MIL-STD-810G
- **Gamma sterilization:** 50+ cycles (35 kGy/cycle)
- **Warranty** 200 washing cycles or 3 years

[1] The chip data retention is based on the chip operating under general environment conditions.
[2] Off metal, actual read range may vary based upon use case and antenna power.
[3] 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** Polyester
- **Dimensions (in)**[1] 2.76 x 0.59
- **Dimensions (mm)**[1] 70 x 15
- **Thickness (in)**[2] 0.03 in, 0.06 in on chip location
- **Thickness (mm)**[2] 0.65 mm, 1.65 mm on chip location
- **Color** White
- **Weight** 0.45 g
- **Washing method** Laundry, dry cleaning



Mounting Systems

- Sew

Installation Instructions

Install the tag by sewing:

Sew into a hem or inside a pouch.

[1] Tolerance: +/- 0.03; +/- 0.80
[2] Tolerance: H: +/- 0.004; H: +/- 0.100

Industry Compliance

Order Information

TEX Gamma 70x15: X7015-GL010-KX2005XB

Customization Options

Encoding	Laser Marking

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

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