

TEX 70x15 GAMMA

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]

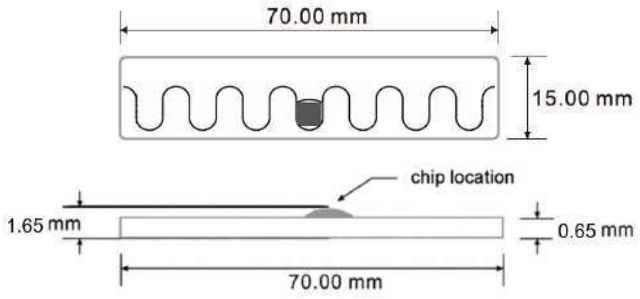
- Standard detergents, fabric softeners, bleach, oxygen/chlorine compounds, alkali substances, acetic and peracetic acid

- **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 70x15 Gamma: 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.

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.