

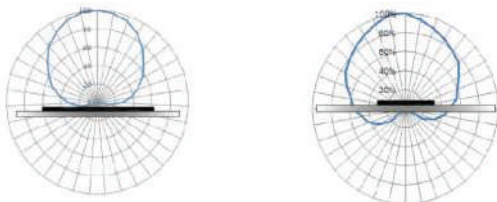
XERAFY



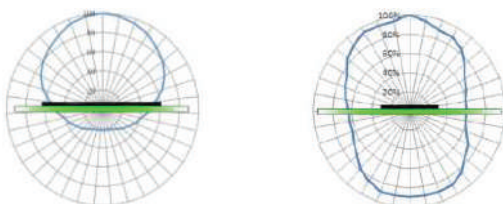
# METAL SKIN TITANIUM

## Technical Specifications

- **RF protocol** EPC global Class 1 Gen 2
- **Frequency** 902-928 MHz (US);  
865-868 MHz (EU)
- **IC type (chip)**<sup>1</sup> NXP UCODE 9
- **Chip memory**<sup>2</sup> 96 bits EPC; 96 bits TID
- **Read range on metal**<sup>3</sup> Up to 8.2 ft (2.5 m)
- **Read range off metal**<sup>3</sup> Up to 3.3 ft (1 m)
- **Polarization** Linear
- **Radiation Pattern**  
On metal-Horizontal / Vertical



Off metal-Horizontal / Vertical



## Key features

- + **Small size:** fit for small assets
- + **On and off metal RFID labels**
- + **Printable with human and computer-readable information**
- + **Lightweight and flexible with paper-thin profile**
- + **Cost effective**

## Applications

- **Product authentication**
- **IT asset and laptop tracking**
- **Radio and mobile equipment**
- **Foil-based packaging tracking**

## Environmental Specifications

### Temperature



- **Operational** -40°C to +85°C
- **Survival** -40°C to +85°C (long term)

- **IP rating** IP68
- **Compression strength** 58 psi (400 kPa)
- **Shock (drop)** 3ft (1 m) to concrete/granite
- **Printer compatibility** Sato CL4NX;  
Postek TX2r/3r/6r; TSC Printronix T6000e
- **Vibration** MIL-STD-810G
- **Warranty** 1 year

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

<sup>2</sup> This product utilizes an NXP UCODE 9 chip; each tag will have the exact same EPC number and a unique TID number. Xerafy will verify the Read/Write function of each chip memory before shipment.

<sup>3</sup> Actual read range may vary based upon use case and antenna power.



## Physical Specifications

- **Material**  
White thermal transfer face stock
- **Dimensions (in)**<sup>1</sup> 1.77 x 0.22 x 0.04
- **Dimensions (mm)**<sup>1</sup> 45 x 5.6 x 1
- **Delivery format** On roll
- **Quantity per roll** 500
- **Weight (roll)** 0.88 lbs (0.4 kg)

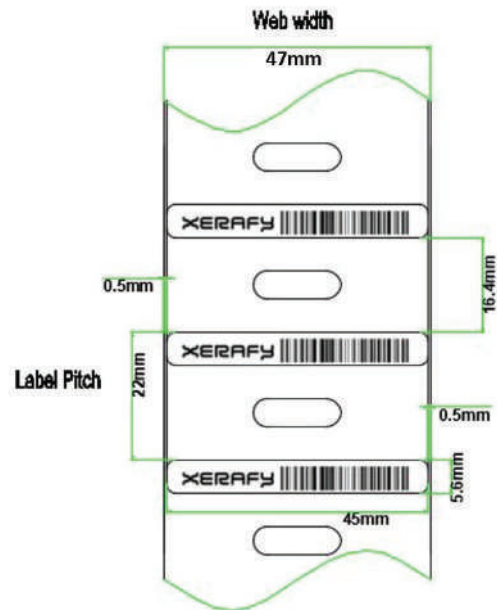
### Mounting Systems

- Industrial adhesive

### Installation Instructions

Instructions for optimal performances:

1. Clean the surface using Isopropyl alcohol alcohol pad or equivalent solvent to ensure surface is free from dirt, dust, oil and misc,debris that may affect adhesion.
2. Handle the label by edges, peel release liner from back ensuring not to touch the adhesive.
3. Place the label in desired tagging location and firmly apply even pressure to the label for 5 seconds.
4. Do not disturb newly mounted label for at least 15 minutes to ensure proper adhesive seating.



<sup>1</sup> Tolerance: +/- 0.02, H=0.04(+/- 0.004); +/- 0.5, H=1(+/- 0.1)

## Industry Compliance



## Order Information

Metal Skin Titanium US: X5220-US100-U9

Metal Skin Titanium EU: X5220-EU100-U9

### Customization Options

Encoding

ATEX Certified Version

Printing

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.

