

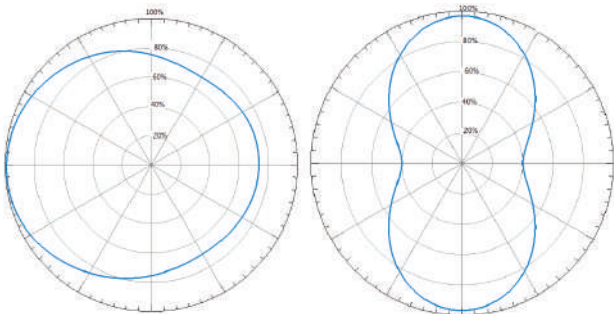


## THETA INLAY

### Technical Specifications

- **RF protocol** EPC global Class 1 Gen 2
- **Frequency** 860-960 MHz (Global)
- **IC type (chip)**<sup>1</sup> Alien Higgs 3
- **Chip memory** 96/480 bits EPC; 96 bits TID; 512 bits user memory
- **Read range fixed**<sup>2</sup> Up to 29.53 ft (9 m)
- **Read range handheld**<sup>2</sup> Up to 16.40 ft (5 m)
- **Polarization** Linear
- **Radiation pattern off metal**

Off metal-Horizontal / Vertical



### Key Features

- + **Flexible and embeddable**
- + **230°C:** withstand high temperatures
- + **9 m read range:** read from a distance
- + **Cost effective:** for high volume
- + **IP68 rating:** waterproof

### Applications

- **Plastics injection molding processes**
- **Returnable transport items**
- **Automotive components**
- **Portable power equipment and cables**

### Environmental Specifications

#### Temperatures

- Operational -40°C to +100°C
- Survival -40°C to +230°C (24 hours)

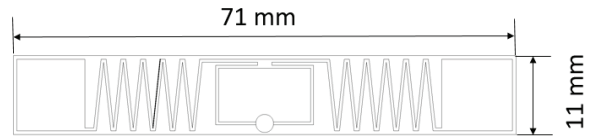
- **IP rating** IP68
- **Compression strength** 142 psi (980 kPa)
- **Shock** 3ft (1 m) to concrete/granite
- **Vibration** MIL-STD-810G
- **Warranty** 1 year

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

<sup>2</sup> Off metal

## Physical Specifications

- **Material** FPC
- **Format** Dry inlay
- **Dimensions (in)**<sup>1</sup> 2.80 x 0.43 x 0.005
- **Dimensions (mm)**<sup>1</sup> 71 x 11 x 0.13
- **Weight** 0.20 g



## Mounting Systems

- Injection molding, Embedded

## Installation Instructions

Designed to work with a wide range of thermoplastic resins and to be compatible with a large number of injection molding processes.

<sup>1</sup> Tolerance: +/- 0.02; +/- 0.50

## Industry Compliance



## Order Information

Theta Inlay: X7101-GL100-H3

## Customization Options

Encoding

ATEX Certified Version

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.

