



GRILLE

Small Tag with Large Memory

SMARTRAC GRILLE inlays and tags with UCODE 7xm high-memory ICs from NXP are designed for industrial application in the automotive, aerospace and pharmaceutical sectors, among others.

GRILLE inlays and tags offer excellent performance on light and medium loads and feature the tiniest optimized form factor to tag small items in industrial environments. They are available with the latest NXP UCODE 7xm ICs with extended memory, supporting 2kbit of user memory and 448-bit EPC memory. GRILLE provides good orientation sensitivity, offers unique TID and enables pre-serialized EPC plus parallel encoding, and provides a product status flag. Additionally, SMARTRAC's GRILLE inlays and tags can be equipped with NXP UCODE 7xm+ and NXP UCODE DNA to enable parts authentication and brand protection with higher memory capabilities.

The inlays are available in dry, wet and paper tag delivery formats.

SMARTRAC's inlays and tags are halogen free and are compliant with ISO 9001:2015 Quality Management as well as ISO 14001:2015 Environmental Management, which ensure a reliable and state-of-the-art product that meets a variety of application with extended user memory needs.

Overview

Operating Frequency

860 - 960 MHz

Integrated Circuit (IC)

NXP UCODE 7xm

Antenna Size

22 x 22 mm (0.9 x 0.9 in)

Die-cut Size

25 x 25 mm (1.0 x 1.0 in)

International Standards

- ▶ EPC Class 1 Gen 2
- ISO 18000-6C

Application Areas

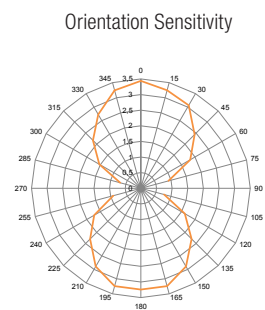
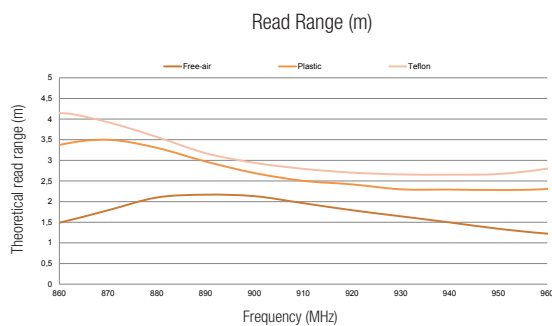
- ▶ Automotive
- ▶ Aerospace
- ▶ Pharma & Healthcare

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| Technical Features | | | |
|--|---|---------------|-------------------|
| IC + Memory* NXP UCODE 7XM 448bit EPC | Size | Format | Sales Code |
| | 22 x 22 mm / 0.9 x 0.9 in | Dry | 3005984 |
| | 25 x 25 mm / 1.0 x 1.0 in | Wet | 3005985 |
| | 25 x 25 mm / 1.0 x 1.0 in | Paper tag | 3005986 |
| Web Width | 30 mm / 1.2 in | | |
| Operating Temperature | -40 °C to +85 °C / -40 °F to +185 °F | | |
| Adhesive | Acrylic, water borne adhesive & solvent-free permanent adhesive | | |
| Qty/Reel | 5,000 pcs | | |
| Core Size | 76 mm / 3 in | | |
| Shelf Life | +20 °C, 50 % RH / 68 °F, 50 % RH - minimum 2 years from the date of manufacturing | | |

*Note: Other IC memories are available upon request.



All the graphs are indicative: performance in real life applications may vary. The data has been determined based on calculations for transmitters with a 2W ERP output power level.

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