



CIRCUS™

Small HF Inlay for Close Stacking Applications

SMARTRAC CIRCUS™ inlays & tags are designed to suit applications where small size and best performance are a must. Featuring NXP ICODE ILT-M IC, CIRCUS allow close stacking or contact that confuses other inductively coupled HF and LF tags.

CIRCUS tags and inlays with NXP ICode ILT-M ICs offer provide excellent performance in document and item identification where close stacking occurs, which is challenging environment for other passive protocols. The tag also work well in applications where very fast inventory of multiple tags in the field occurs, e.g. counting casino chips. In these cases, CIRCUS tags offer performance approaching UHF EPC Class 1 Gen 2.

SMARTRAC's inlays and tags are compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management. This ensures a reliable and state-of-the-art product that meets a variety of application needs, where high performance is a critical parameter.

Overview

Operating Frequency
13.56 MHz

Integrated Circuit (IC)
NXP ICODE ILT-M

Antenna & Die-cut Size
Ø 22 mm / 0.87"
Ø 25 mm / 0.98"

International Standards

▶ ISO 18000-3 Mode 3

Application Areas

- ▶ Electronics & Gaming
- ▶ Media & Document Management
- ▶ Healthcare

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Technical Features			
IC + Memory NXP ICODE ILT-M 512 bit	Size Ø 25 mm / 0.98 in	Format wet	Sales Code 3002540
Operating Temperature	-40 °C / +85 °C / -40 °F / 185 °F		
Bedding Diameter (D)	> 50 mm, tension less than 10 N		
Adhesive	Solvent-free permanent adhesive, usage temperature: min. -40°C to 150 °C / min. -40°F to 302 °F		
Shelf Life	+20 °C, 50 % RH / 68 °F, 50 % RH - minimum 2 years from the date of manufacturing		

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