



## LYNGSOE RFID LABELS™

### Datasheet

#### Description

Lyngsoe systems offers RFID labels for all different kinds of items that libraries have, such as books and CD/DVDs.

In addition to normal RFID-labels there are also so called Booster-tags available for CDs and DVDs. These are bigger and have better performance. The materials used in these RFID- tags are very high quality and with rigorous quality assurance in manufacturing, a very long life and proper operation in library environment is assured.

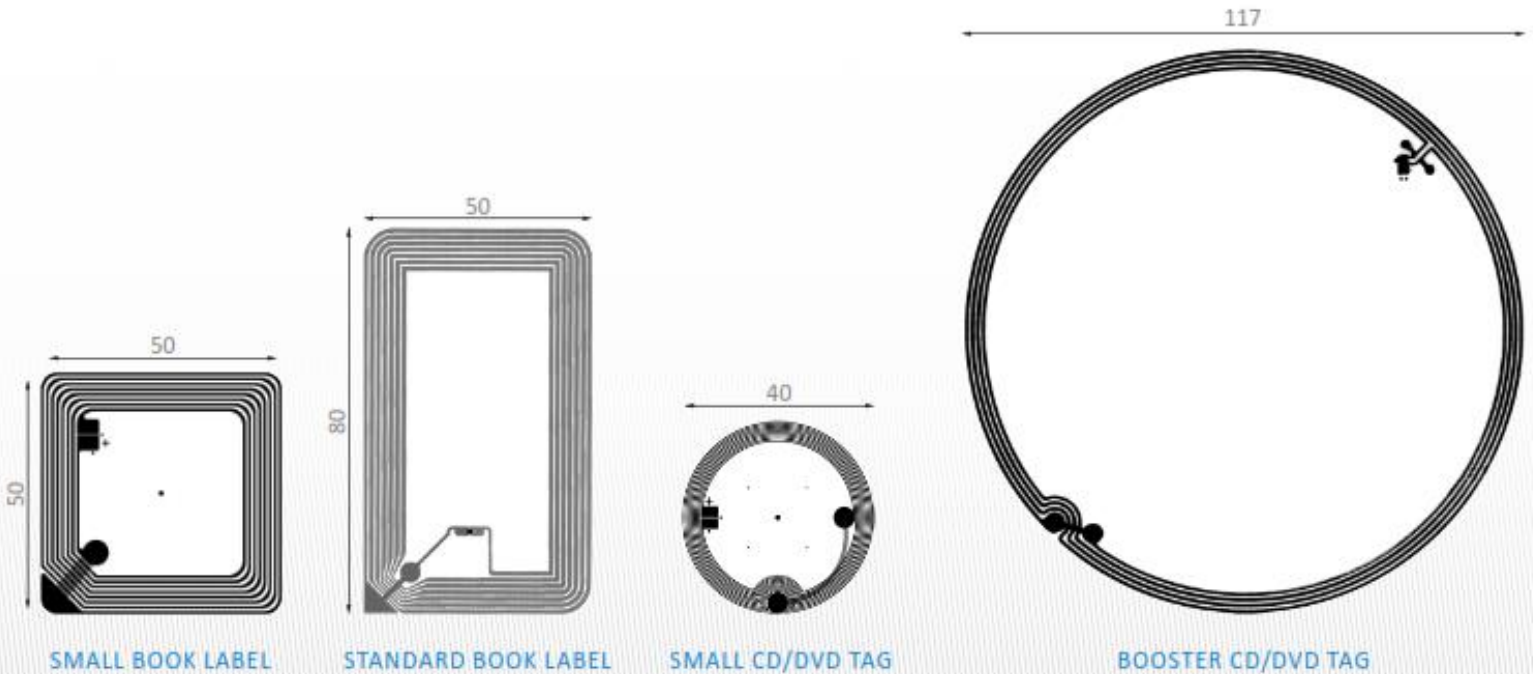
An RFID label consists of an aluminium antenna and a very small microchip attached to the antenna. For protection of the antenna and microchip there is a paper or plastic (PP) face material. On the back side of the label there is an adhesive layer that holds the label on an item. This adhesive is stable and there is no risk of its leakage over the edges of the tag, even for a very long period of time. Naturally all materials used meet modern environmental requirements.



## BENEFITS

- + Top performance in library and media management applications.
- + Optimal size and performance in compact square package.
- + Excellent performance in all printed media products and applications including self check with stack reading capability and EAS.
- + Lyngsoe systems book lifetime library warranty.
- + ISO 9001:2008 Quality Management System and ISO 14001:2004 Environment Management System support.

## Dimensions





## Specifications

### Physical specifications

Function:	Use for library items security and identification (Book, Magazine, CD/DVDs, ...)
Item identification:	RFID
Dimensions:	Small book label: Die-cut size: 50 x 50 x 0.4 mm Standard book label: Die-cut size: 50 x 80 x 0.4 mm Small CD/DVD tag: Ø 40 x 0.4 mm, internal Ø 17 x 0.4 mm Booster CD/DVD tag: Ø 117 x 0.4 mm, internal Ø 17 x 0.4 mm
IC:	NXP ICODE SLIX or SLIX2
Bending Diameter (D):	> 50 mm, tension max. 10 N
Memory	1k bit/ 2.5k bit
Performance:	50 years data retention Write endurance of 100000 cycles
Material	Aluminium antenna Paper and plastic (PP) face material
Adhesive	Acrylic water-resistant adhesive
Color	White, other high tech printing optional

### RFID specifications

Technology:	HF RFID
Frequency:	13.56 Mhz
RFID datamodel:	ISO28560, DDM, KATVE, TechLogic, TV2, 3M, TRC, ITG, ITG2
RFID standard:	ISO 15693, ISO 18000-3.1
Security:	EAS-bit / AFI

### Environmental specifications

Temperature:	-40°C to 85°C
Humidity:	0 – 90% non-condensing

### Warranty/certificates

Certificates:	CE, EMC
Shelf Life:	minimum 2 years from the date of manufacturing