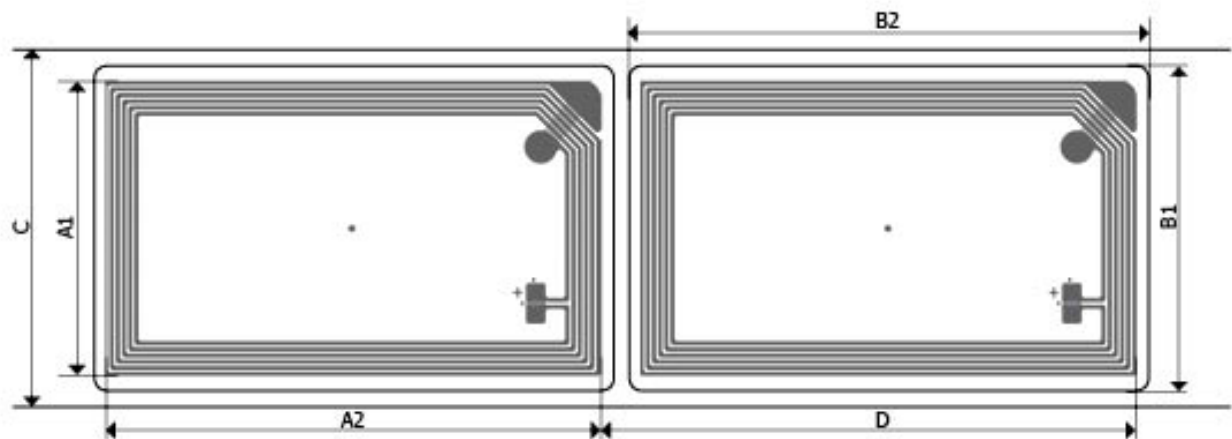


Mechanical dimensions

A1 x A2	Antenna size	45 x 76 mm	± 0,5 mm	1,969 x 1,969 in
B1 x B2	Die-cut size	50 x 80 mm	± 0,2 mm	2,087 x 2,087 in
C	Web width	54 mm	± 0,5 mm	2,362 in
D	Pitch, length per piece MD	85 mm	± 1,5 mm	2,362 in



Delivery form

Transponder format	Die-cut	
Transponder face material	PP 30 clear	
Transponder antenna material	Aluminum	
Transponder adhesive	S-2045	
- labelling temperature	min. +5 °C	min. +41 °F
- usage temperature	-40°C - 150 °C	-40°F - 302 °F
- peel	min. 8 N / 25 mm (FTM 2)	
Final inspection	100 %, known faulty ones marked	
Minimum delivery yield	97 %	
	Reel number, Material number, Material description, Yield, Qty of functional inlays, Qty of non-functional inlays, Date	

Electrical characteristics

Integrated Circuit (IC)	NXP ICode SLIX
Air interface protocol	ISO 15693, ISO 18000-3 Mode 1
Operation frequency	13,56 MHz
Unloaded resonance frequency	14,70 MHz ± 0,35 MHz
Memory	1K bit
Security supported	AFI / EAS

General characteristics of transponder

Operating temperature (electronics parts)	-40 °C / +85 °C	-40 °F / 185 °F
ESD voltage immunity	± 2 kV peak HBM	
Shelf life: From the date of manufacture 2 years in	+20 °C, 50 % RH	68 °F, 50 % RH
Bending diameter (D)	> 50 mm, tension less than 10 N	

Delivery details

Appearance	Single row reel form
Reel core	Card board core, inner diameter 76 mm (3 in)
Winding of the reel	Face out
Reel size	2000 pcs/reel
Package size	-

Warranty:

The RFID tags designated for books and sold into library applications are guaranteed for the lifetime* of the book in standard environmental conditions (typically +20 °C, 50 % relative humidity). The warranty starts from the date of delivery. The storage of book tags prior to use must be as per RFID guidelines (+15 – +25 °C, 40 – 60 % relative humidity).

* Lifetime in a public lending library is considered to be 10 years.

N.B.

- a. It is highly recommended that book tags are placed on the inside of the back cover.
- b. Extremes of temperature and/or humidity may adversely affect the performance of the book tag.
- c. Damage through physical and malicious abuse is not covered.
- d. IC data retention is guaranteed for 50 years, with a minimum endurance of 100,000 re-writes.
- e. Adhesive performance may vary depending on the substrate. Surfaces which are rough and fibrous will reduce adhesive performance. Surfaces which contain plasticizers (PVC/vinyl) should be avoided. Surfaces which are highly varnished or have high silicone content will affect adhesive performance.
- f. The warranty covers the replacement cost of the tag only. No consequential claims will be accepted.
- g. All claims are investigated before approval.

Disclaimer:

We reserve the right to change its products and services at any time without notice. Our recommendations are based on our best knowledge and experience. As the products are used outside our control we cannot take responsibility for any damage that may be caused when using the product. Use extra care in handling the product. This technical specification replaces all earlier ones.



All the graphs are indicative: performance in real life applications may vary.

Option Printing



Sample of Printing. Printing, and programming acc. to the danish data model.