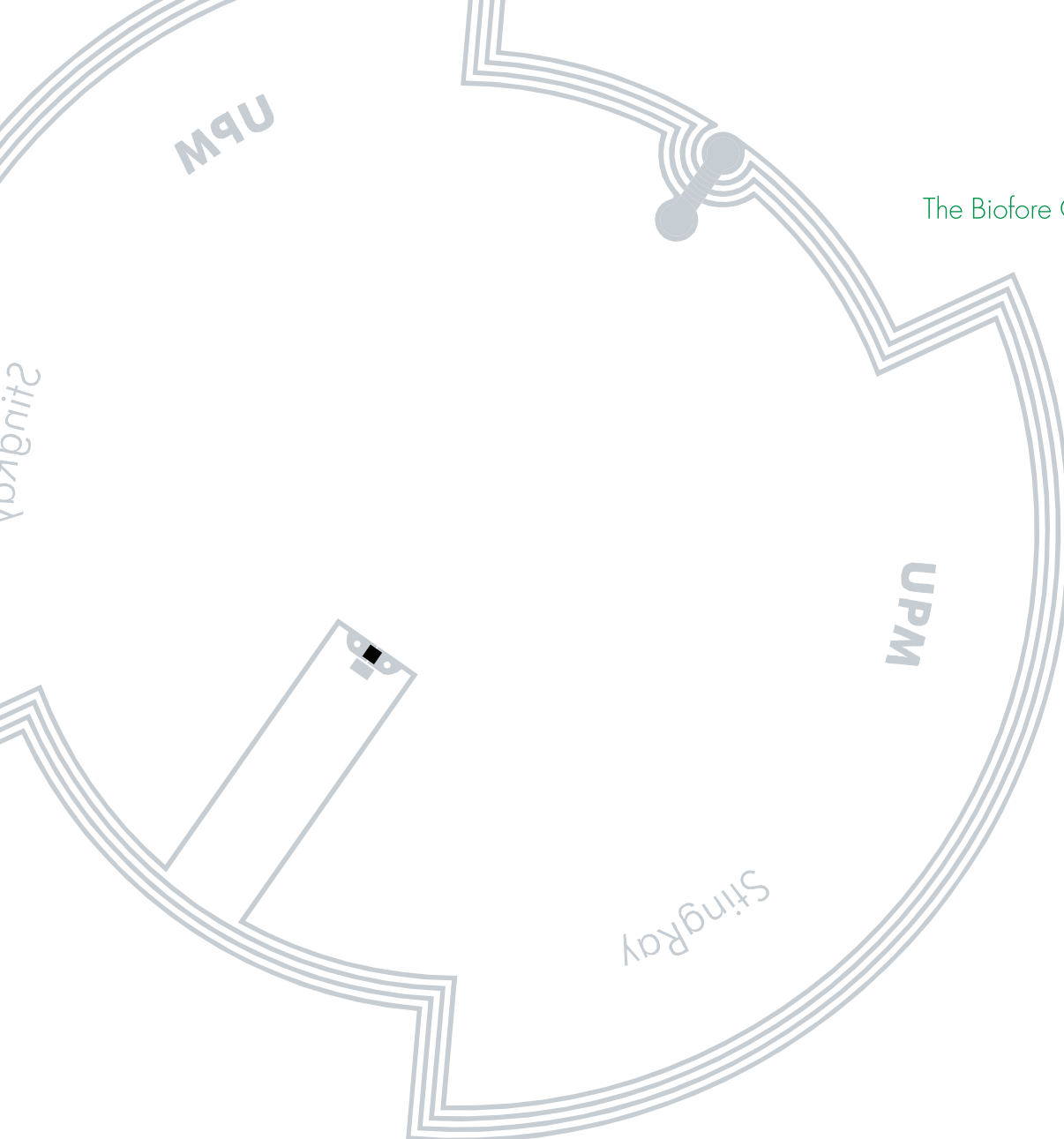




The Biofore Company

UPM



UPM StingRay™

Protocol

ISO 15693

ISO 18000-3 Mode 1

Operating frequency

13.56 MHz

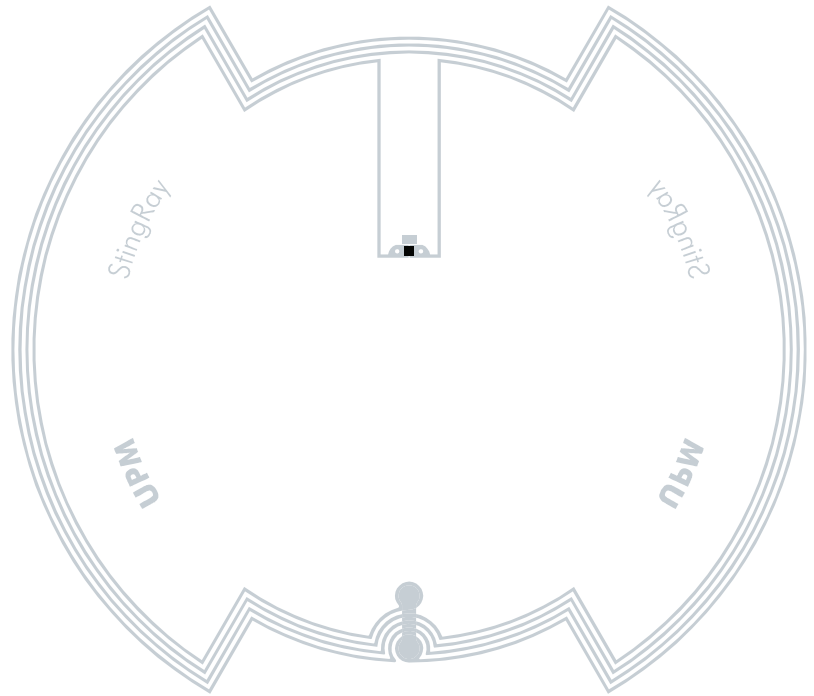
Antenna size

105 mm / 4.13 inch

StingRay™ key features

- Best performing inlay for all disc types: CD, DVD and Blu-ray.
- Maximal performance and robust readability for library and rental applications.
- Easy application with strong adhesive properties
- Self check multiread and Improved gate EAS

UPM StingRay™



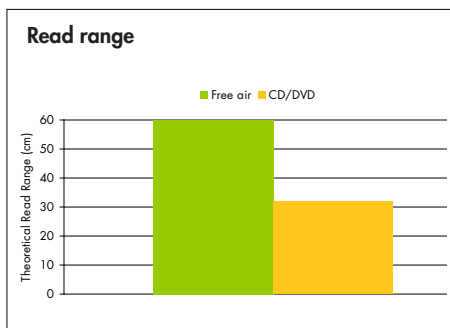
RoHS

Antenna dimensions

Antenna size	105 mm / 4.13"
Die-cut size	108 mm / 4.25"
Web width	110 mm / 4.33"

Electrical specifications

IC	NXP ICode SLIX
Memory	1k bit / 2k bit
Operating frequency	13.56 MHz
Data retention	100,000 cycles / 50 years



General characteristics of inlay

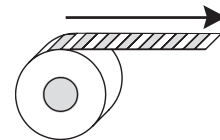
Operating temperature	-40 °C to 85 °C -40 °F to 185 °F
Bending diameter (D)	> 50 mm tension max. 10 N
Static pressure (P)	<10 MPa

Delivery formats

Available formats	Wet
Adhesive - temperature	Solvent-free permanent adhesive min. -10 °C to 90 °C min. 14 °F to 194 °F
Quality	100% performance tested

Reel details

Standard reel size	1,000 wet inlays
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Inner core diameter 76 mm / 3 inch

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

UPM RFID uses three different test methods to evaluate the reliability of the RFID inlay and tag products it produces. Products are tested according to IEC 60068-2-67 (temperature and humidity), JESD22-A104-B (temperature cycling) and an in-house developed bending test.

Disclaimer

UPM RFID reserves the right to change its products and services at any time without notice. Our recommendations are based on our latest knowledge and experience. As our products are used in circumstances beyond our control, we cannot be held liable for any damage caused through their use.

