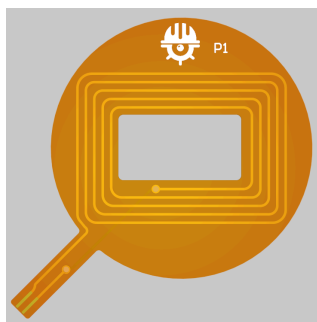


WakeCap NFC Antenna Specification

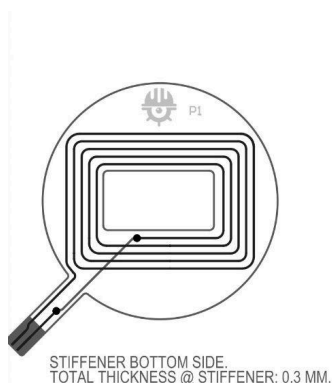


NFC Function

- Integrated NFC-A tag functionality in the Nordic nRF52832 SoC.
- NFC is used for device identification, commissioning, and battery/service status queries.
- Operates in passive mode, no external NFC controller required.

Specifications

Operating frequency	13.56 MHz ISM band
NFC Antenna Type	Flat wound inductor
Coil Inductance @ 100 kHz	1,2 μ H
Connection	nRF52 differential NFC port
Standard	ISO/IEC 14443-3A, NFC-A Type 2
Antenna Diameter	31 mm
Outer Dimension	31 x 42 mm
Weight	2 grams



Layer	Name	Material	Thickness	Constant
	Top Coverlay + Adhesive	FC-001	1.06mil	4
1	Top Layer		1.38mil	
	P1 + Adhesive	P1	2.17mil	3.5
2	Bottom Layer 1	CF-004	1.38mil	
	Bottom Coverlay + Adhesive	FC-001	1.06mil	4
Total board thickness:			7.05mil	

