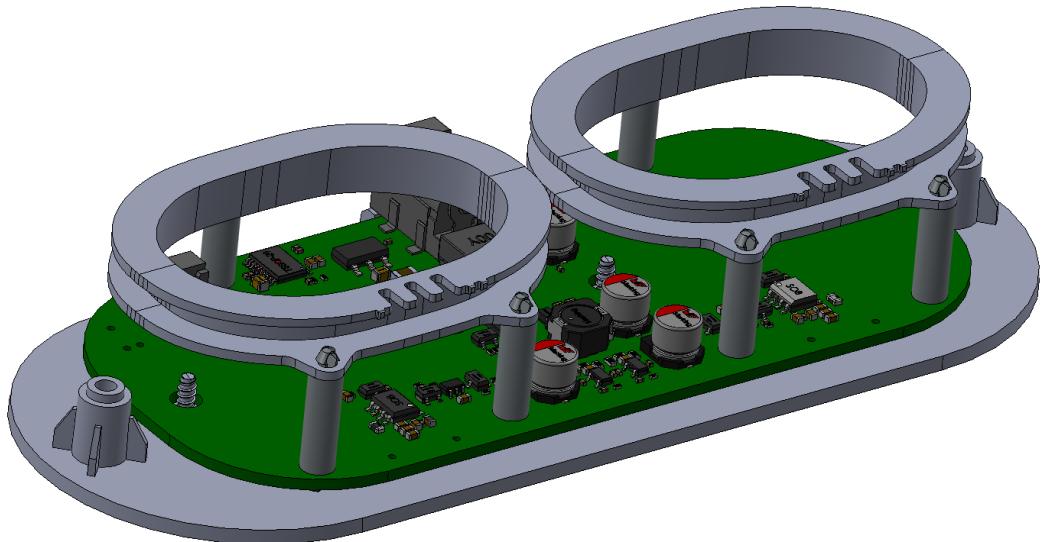


SE Factory EMDR Kit Wireless Flex Docking Station

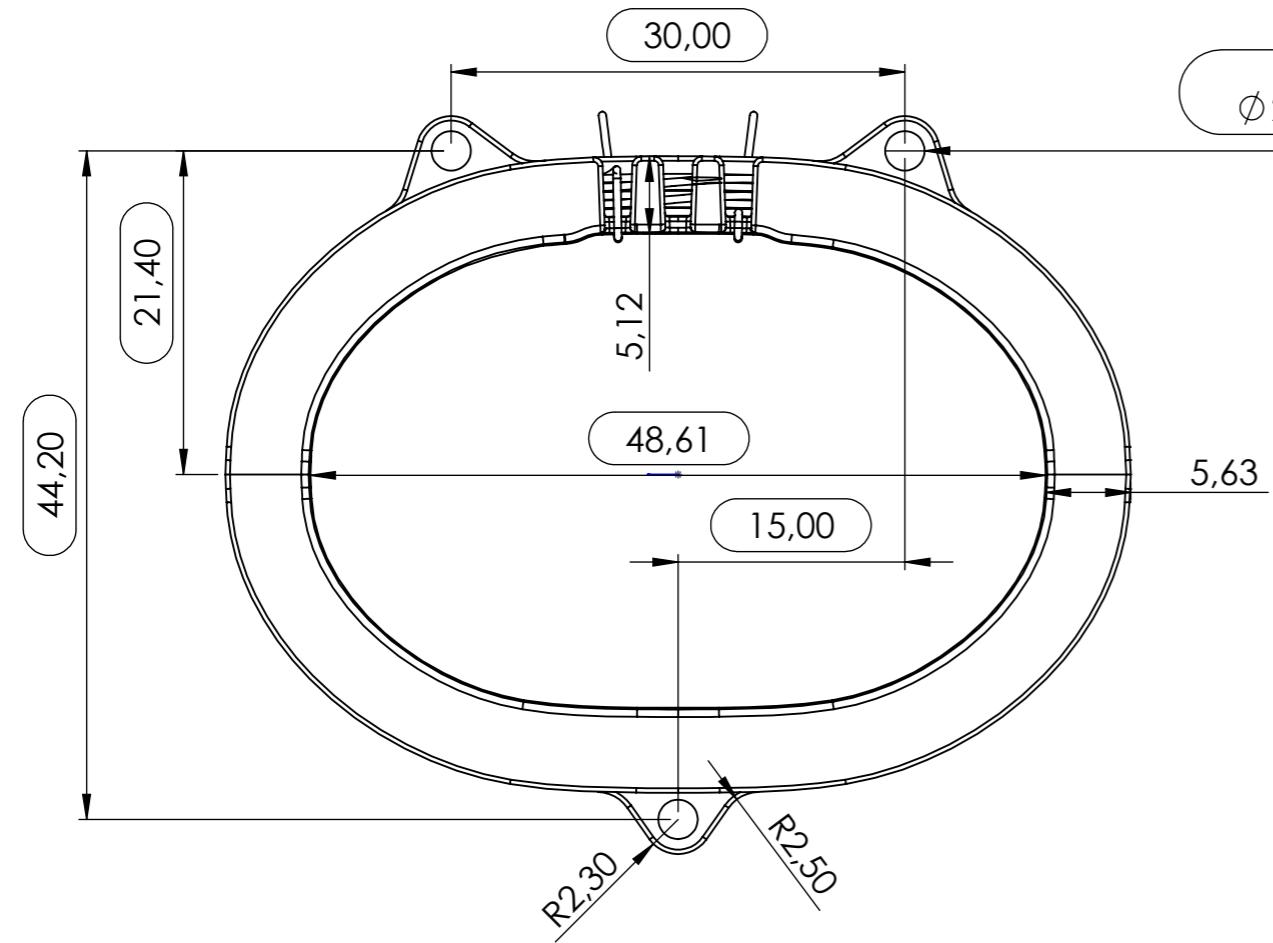
Coil Specification

version 2023-05-17-12-35

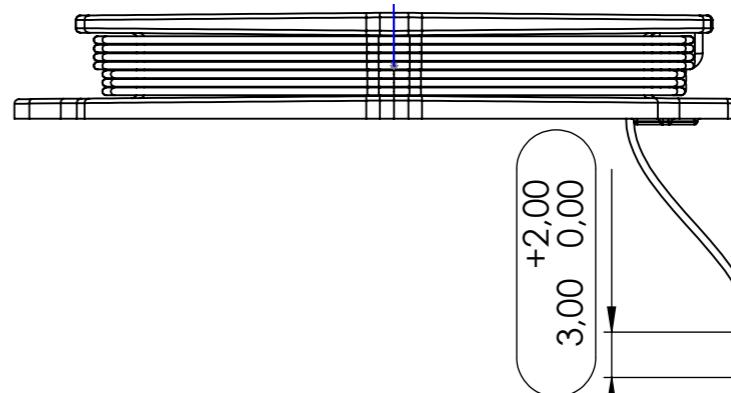
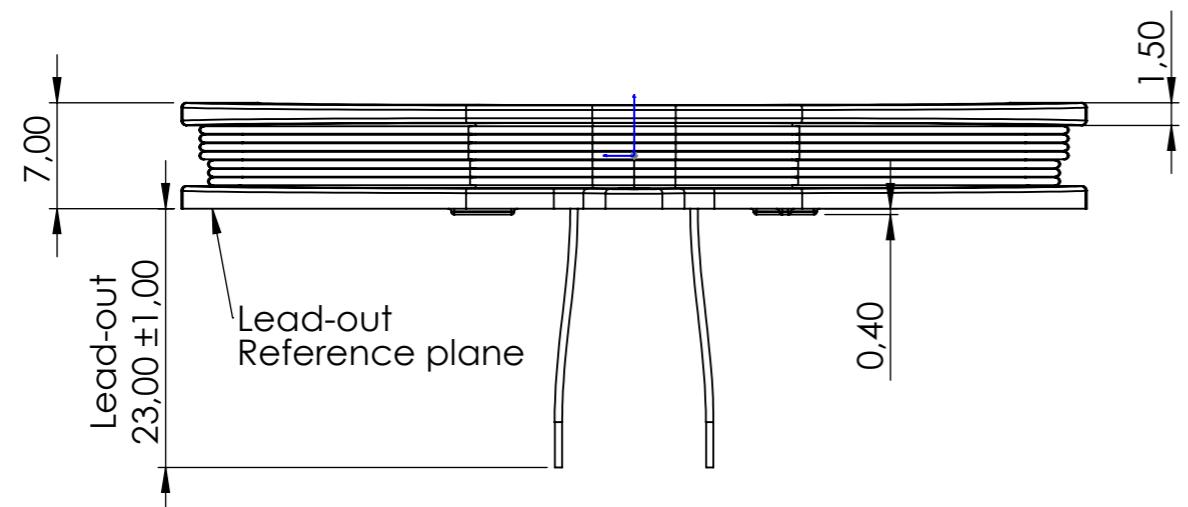
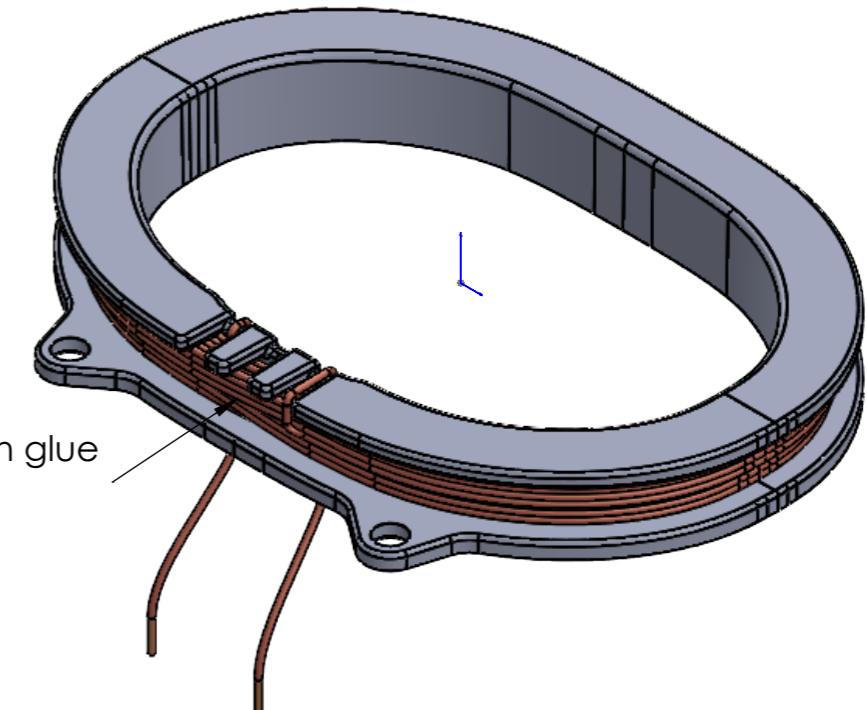
status: released



Inductor Type	Single Copper Wire on Bobbin
Application	Wireless Charging (Receiving)
Exciting Frequency	$40 \text{ kHz} \pm 2 \%$
Number of Windings	32 windings (Critical To Quality)
Inductance	$84 \mu\text{H} \pm 5 \%$
Resistance	$474 \text{ m}\Omega \pm 5 \%$
Inductor Current	$200 \text{ mA} @ \Delta T = 5 \text{ }^\circ\text{C}$
Inductor Self Resonant Frequency	$\geq 10 \text{ MHz}$
Inductor Q	≥ 20
Inductor Inner Dimensions	48.7 mm x 28.9 mm x 6 mm including bobbin according to digital 3D model provided
Wire	475 μm (copper excluding enamel) 509 μm (wire including enamel)
Wire Termination	37 mm lead-out 3 mm tinned ends
BoM (per coil)	- 5000 mm enameled copper wire - 1 Docking Station bobbin



Secure the cables with glue specified in the notes.

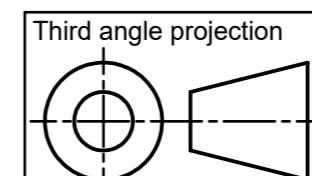


Notes:

- 3D Geometry According to CAD file unless otherwise stated
- No burrs allowed at gate point & on parting lines
- Glue specifications: Steinel General-purpose glue sticks 11 mm, EAN 4007841050092
- Shape of the wire can be ignore for the lead-out measurement, measurement assumes a straight wire

Proprietary and confidential

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Tolerance: ± 0,1 mm

Material: ABS PA 765

Color: Black

Drawing is according to 3D file:

Flex Dockingstation
Spoel Assemblage V3

UL94: HB75



Design date: 15/02/2024

Drawn date: 12/02/2025

SE Factory

Part name:
EMDR Kit - wireless -
dockstation - coil

Rev Part number: 70304

Size

A3

V3.2

Scale: 2:1 Unit of Measure: mm Sheet 1 of 1