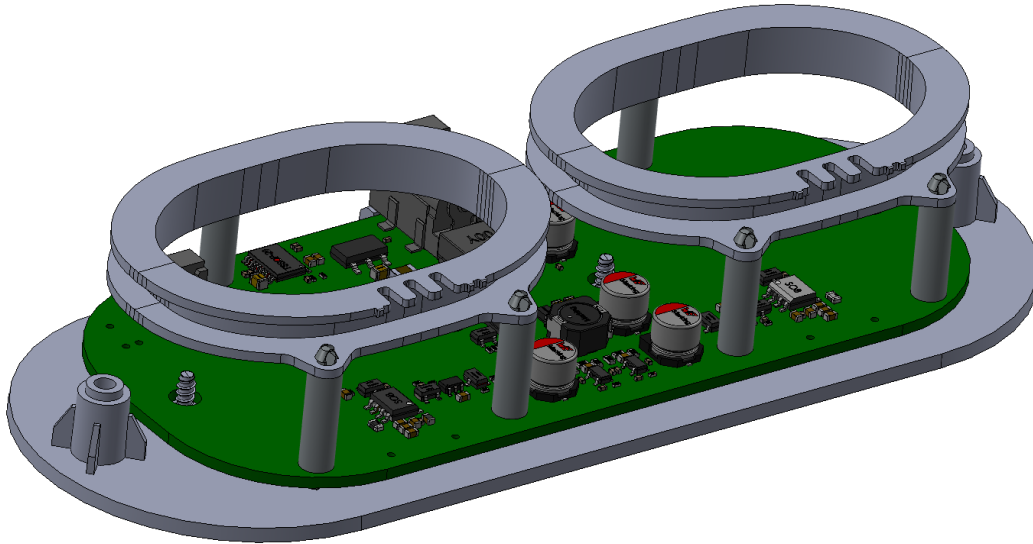


SE Factory EMDR Kit Wireless Flex Docking Station

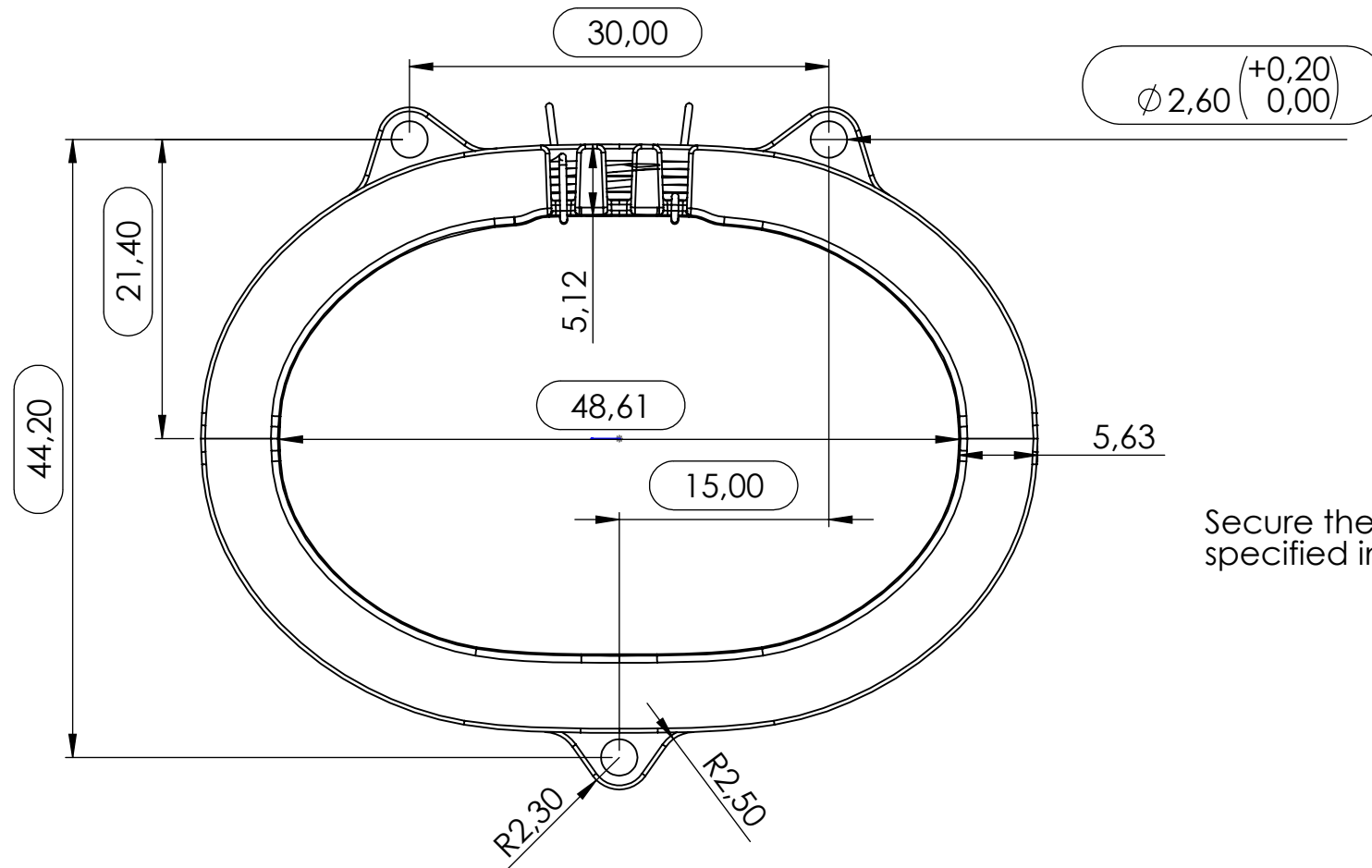
Coil Specification

version 2023-05-17-12-35

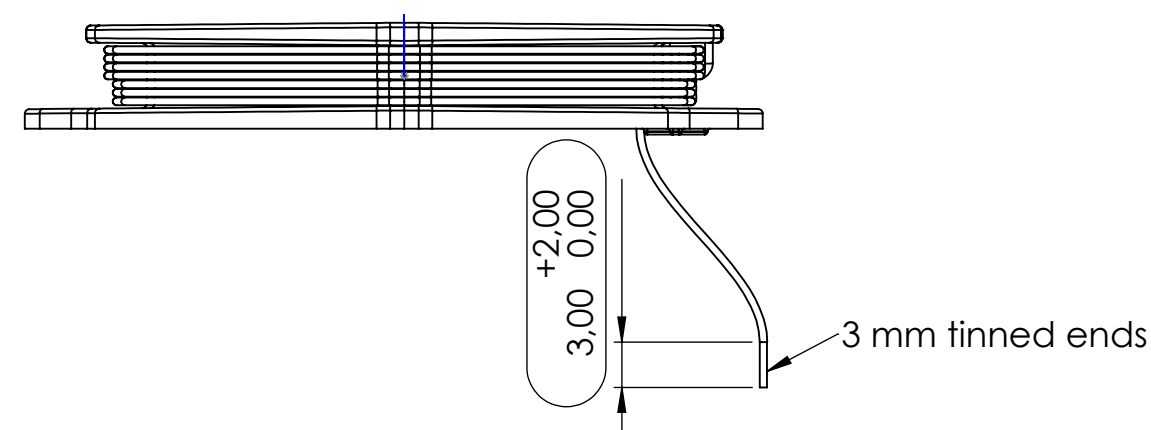
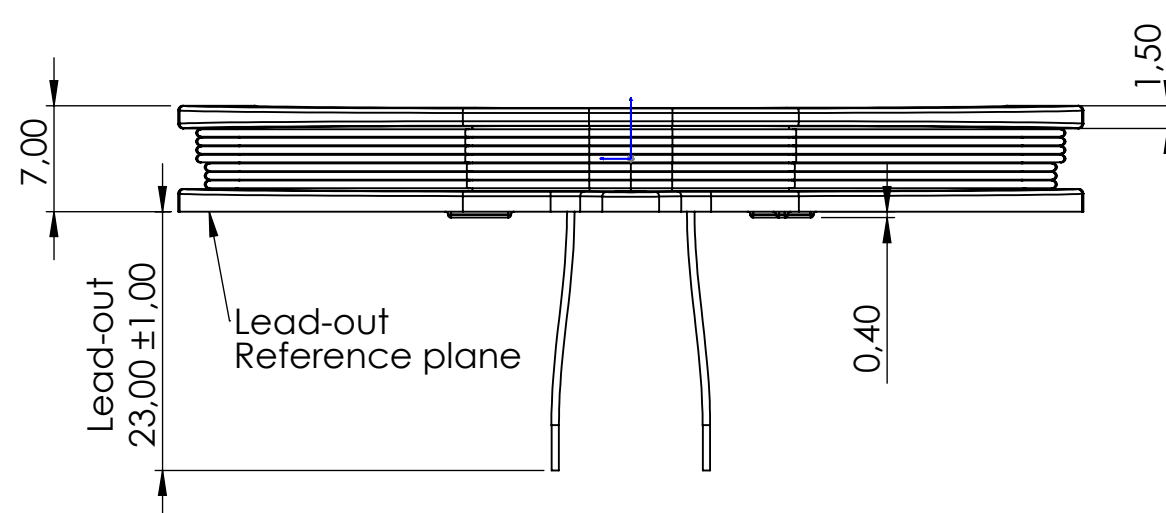
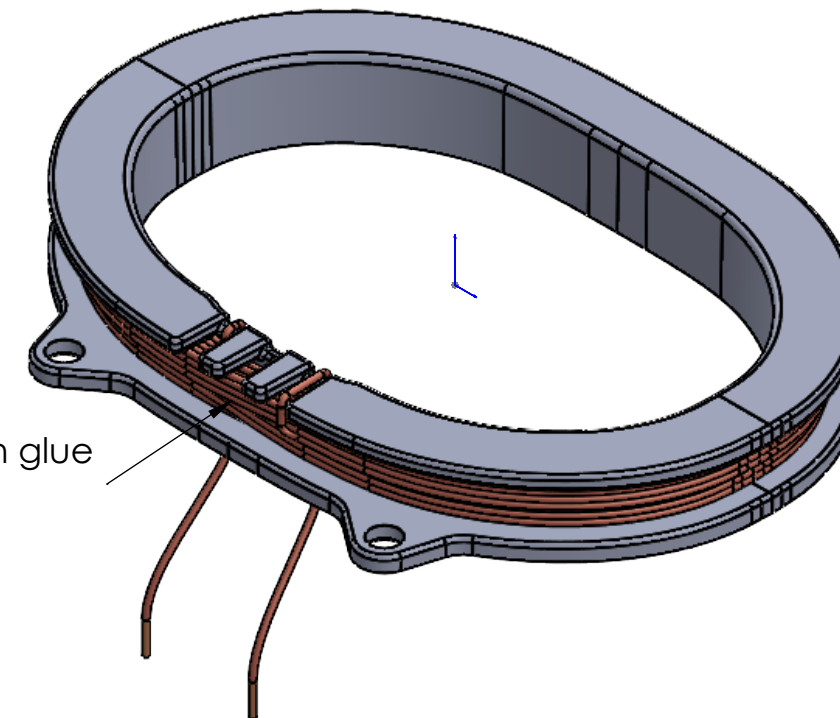
status: released



Inductor Type	Single Copper Wire on Bobbin
Application	Wireless Charging (Receiving)
Exciting Frequency	40 kHz $\pm 2\%$
Number of Windings	32 windings (Critical To Quality)
Inductance	84 $\mu\text{H} \pm 5\%$
Resistance	474 m $\Omega \pm 5\%$
Inductor Current	200 mA @ $\Delta T = 5^\circ\text{C}$
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

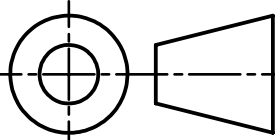



Secure the cables with glue specified in the notes.



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

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<div>Third angle projection</div> 	Tolerance: $\pm 0,1$ mm		<div>SE Factory</div>			
	Material: ABS PA 765					
	Color: Black		<div>Part name:</div> <div>EMDR Kit - wireless - dockingstation - coil</div>			
	UL94: HB75					
<div>Drawing is according to 3D file:</div> <div>Flex Dockingstation Spoel Assemblage V3</div>	<div></div> <div>SE Factory</div>		Rev V3.2		Part number: 70304	Size A3
Design by: R.J. Stam						
Design date: 15/02/2024						
Drawn date: 12/02/2025						
		Scale: 2:1	Unit of Measure: mm	Sheet 1 of 1		