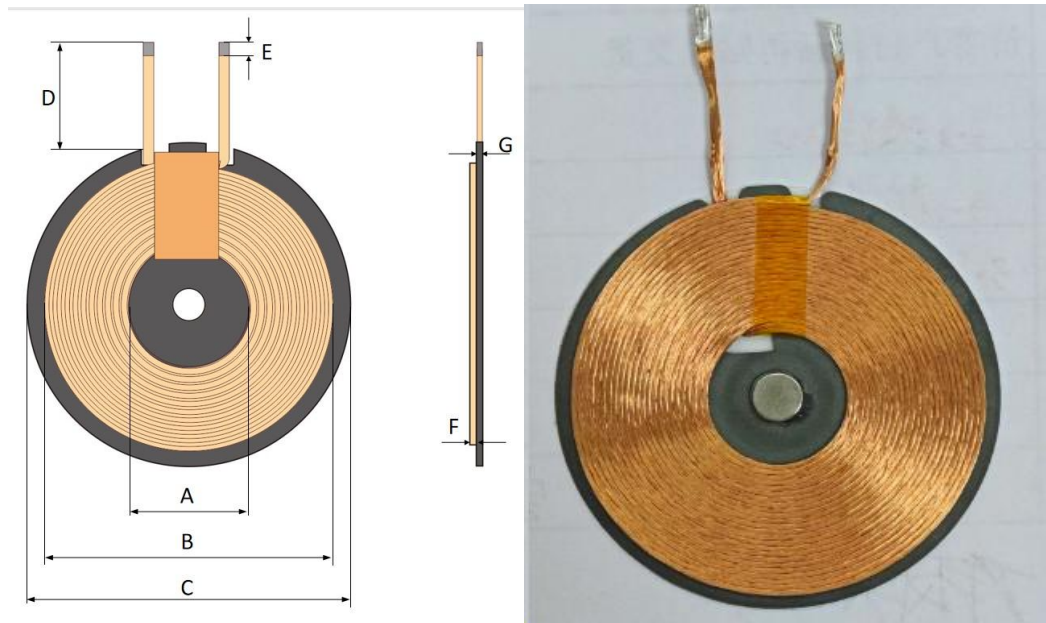


Wireless charging TX Coil A11



Model drawing

Physical drawing

Coil parameters of A11

Parameter	Symbol	Value
Inner diameter	A	$13.5 \pm 0.1 \text{ mm}$
Copper wire Outer diameter	B	$40.5 \pm 0.1 \text{ mm}$
Coil Outer diameter	C	$43.5 \pm 0.1 \text{ mm}$
Outlet length	D	$15 \pm 2 \text{ mm}$
Welding length	E	$2 \pm 2 \text{ mm}$
Magnetic sheet Thickness	F	$1.5 \pm 0.05 \text{ mm}$
Coil Thickness	G	$0.6 \pm 0.05 \text{ mm}$

Electrical Characteristics

Primary Coil self inductance	$6.9 \mu\text{H} \pm 10\%$
Quality factor	80
Direct Current Resistance	$80 \text{ m}\Omega$
Operating Temperature	$-25^\circ\text{C} \sim 85^\circ\text{C}$

list of materials

list	materials
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WIRE	Ø 0.08*24-2p 2UEW-1mm
FERRITE	43.5*5.1*1 I-Slot hard ferrite
GLUE	white glues
SOLDER	XCD-907B
Adhesive	double-sided adhesive

Anetnna Gain

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