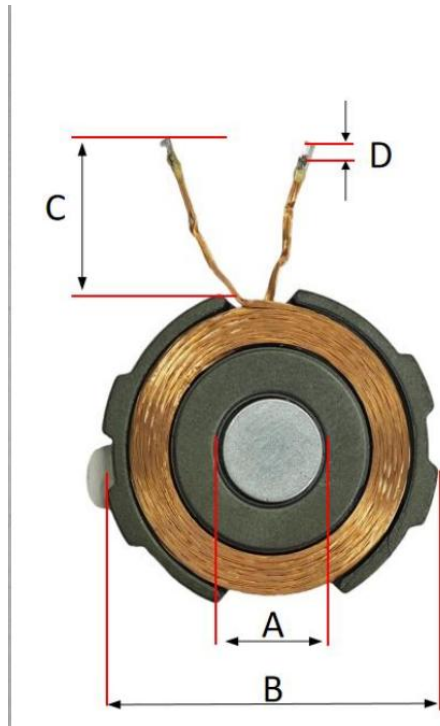


Iwatch Wireless charging TX Coil



Model drawing



Physical drawing

Coil parameters of A11

Parameter	Symbol	Value
Inner diameter	A	$7.4 \pm 0.1 \text{ mm}$
Coil Outer diameter	B	$24.7 \pm 0.1 \text{ mm}$
Outlet length	C	$30 \pm 1 \text{ mm}$
Welding length	D	$2 \pm 1 \text{ mm}$

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
WIRE	$\varnothing 0.08 \times 24 \text{ p}$

MAGNET	Ndfeb N40 galvanizing
FERRITE	24.7*2.3*1 I-Slot hard ferrite
GLUE	white glues
SOLDER	XCD-907B
Adhesive	double-sided adhesive