

## High performance wireless charging coils from Laird

Wireless charging can be used in multiple applications, including designs which need to be completely sealed for operational purposes or premium products where wireless charging brings ultimate convenience.

Many industries are already employing wireless charging capabilities. Today, you can find charge pads built into car interiors, installed in hotel lobbies and the latest mobile and wearable devices.

Medical applications also utilise the technology, building wireless charging into storage containers for devices, ensuring they are always charged and ready for instant use.



## How 3D shaped shielding improves performance

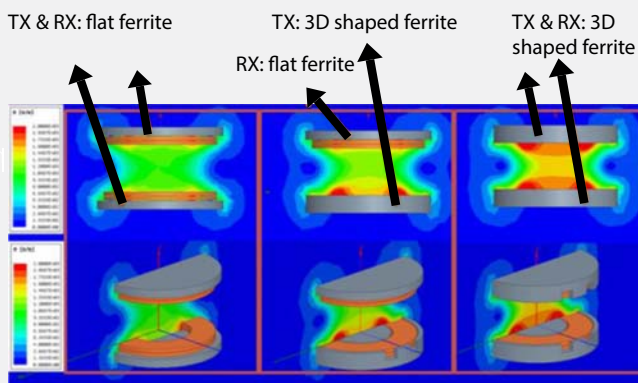
### Traditional ferrite shielding

Used flat solid ferrite plate or flat flexible ferrite sheet

### The new concept of 3D-shaped ferrite shielding

Adds a centre leg and outer wall on the solid ferrite plate. This new concept reduces flux leakage and improves performance.

Magnetic field strength indication by colour:  
from strong to weak (red > yellow > green > blue)

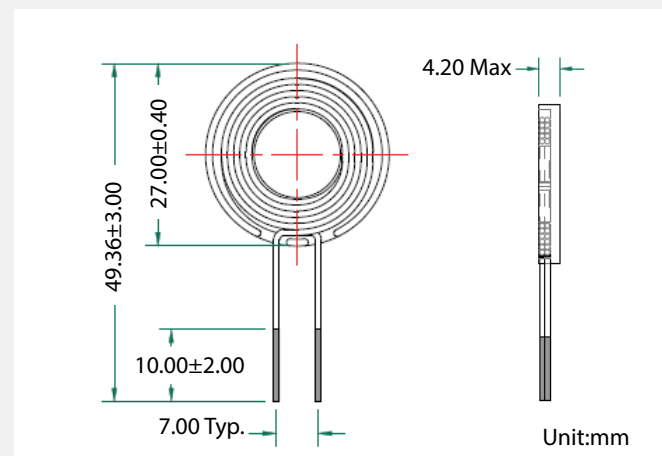


### Improved performance:

Magnetic flux is greatly improved with the use of 3D ferrite shielding. An outer wall and centre leg surround the coil, focusing the magnetic field strength.

This reduces flux leakage, meaning less power is lost and more is transferred to the receiving device, improving charging efficiency and reducing charge times.

## Dimensions / Electrical specifications



Part number	Inductance (µH)			DCR Max (mΩ)
	Min	Nom	Max	
RWC2727AH070-300	5.00	5.50	6.00	48.3

- 1). Inductance tested at 200KHz,1V
- 2). Operating temperature range: -40° ~ +85° (Including self-heating)
- 3). Storage temperature range (packaging conditions): -10° ~ +40° and RH 70%(MAX)

### Key benefits:

- Increased magnetic field strength
- Reduced flux and power leakage
- Connected device can receive more power from transmitter
- Improved charging efficiency and speed
- Greater reliability
- Custom coil, ferrites and design available on request
- **EMC shielding also available**