

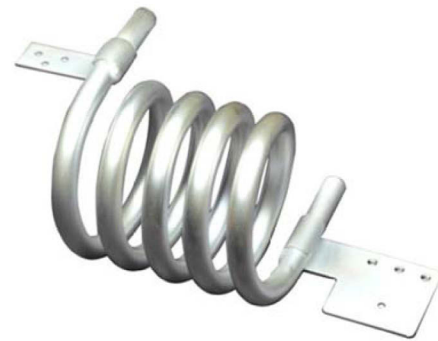
Air Coil Inductor Custom Capabilities

Air Coil Inductors offer a critical benefit of having no magnetic core that typically results in saturation.

APITech can provide custom air coils inductors for RF power, filter, and sensing applications. These products are made with specialized custom tooling to meet dimensional and electrical requirements.

Features

- Inductance is unaffected by the current it carries
- Can be designed to perform at frequencies as high as 1 GHz
- Low self-capacitance, high self-resonant frequency
- Greater efficiency and power handling
- Less distortion
- Free from iron losses
- Better Q-factor



Process Expertise

- Will meet most operating current requirements
- Capability to wind specific coil shapes
- Customized connections
- Leads can be adapted for soldering directly to PCB
- Performance testing on all coils
- RoHS compliancy available

Specifications

- Minimum wire size: 30 awg
- Maximum wire size: 10 awg
- Maximum length: 4 inches
- Minimum ID: 3/32 inch
- Maximum OD: 6 inches
- Minimum tubing size: 1/8 inch
- Maximum tubing size: 1/2 inch

Finishing Options

- Magnet Wire with a variety of insulation options
- Oxygen Free Hard Copper Wire (OFHC), with and without Gold Plating
- Silver Plating

APITech engineering team brings a wealth of experience to helping our customers find the ideal air coils product for a wide variety of applications. APITech will help by developing a custom solution using the preferred design criteria, from construction (raw materials, winding, and finish) to electrical and mechanical characteristics to circuit function.