Coilcraft's commitment to quality

All of Coilcraft’s engineering and production facilities have received ISO/TS 16949 (Automotive) and ISO 9001 (Quality Management System) certification for the “Design, manufacture, and distribution of inductive components including SMT and leaded inductors, transformers and assemblies for telecom, computer, automotive, industrial and other international markets.” This certification demonstrates that Coilcraft has operational quality systems in place that satisfy the rigorous demands of the automotive industry for their suppliers.

Coilcraft magnetics are used bumper-to-bumper

Night vision
Garage door opener
Digital display
Instrument panel
Supplemental restraint
Telematics
Tire pressure monitoring
Camera systems
Power control module
Engine control module
Satellite radio
LED lighting
Adaptive cruise control
Headliner display
Keyless entry
Door power module
Bluetooth system
Anti-lock braking
HID headlights

Redundant manufacturing capabilities around the globe along with our well-tuned logistics capabilities assure you of a steady supply and quick response to changing market demand.
Automotive applications for Coilcraft magnetics

**In-cabin / driver info / telematics**

- **Headliner display**
  - Custom sensors
  - Chip inductors
  - Power inductors for switching power supplies

- **Bluetooth system**
  - Chip inductors for RF front end
  - Power inductors for power sections (switching power supplies)

- **Remote garage door opener**
  - Chip inductors
  - Custom rod antennas (RF front end, RF signal transmission)

- **Instrument panel**
  - Power inductors

- **LED backlight / display screen**
  - Backlight power inductors
  - Custom transformers for vacuum fluorescent display (VFD) drivers

- **Telematics**
  - Chip inductors for impedance matching and filtering sections
  - Power inductors for power supplies

- **Class D Audio**
  - Coupled power inductors
  - Dual inductors with low coupling factor

**Body electronics**

- **Door power module**
  - Power inductors
  - Custom transformers

**Powertrain**

- **Engine control module**
  - High current power inductors
  - Custom transformers
  - Custom rod chokes for power line filtering to and from switching power supplies

- **Remote garage door opener**
  - Chip inductors
  - Custom rod antennas (RF front end, RF signal transmission)

- **Instrument panel**
  - Power inductors

- **LED backlight / display screen**
  - Backlight power inductors
  - Custom transformers for vacuum fluorescent display (VFD) drivers

- **Telematics**
  - Chip inductors for impedance matching and filtering sections
  - Power inductors for power supplies

- **Class D Audio**
  - Coupled power inductors
  - Dual inductors with low coupling factor

**Safety / convenience**

- **Tire pressure monitoring system (TPMS)**
  - RFID coils for LF circuit wake-up
  - Chip inductors for Q matching

- **Anti-lock braking system (ABS)**
  - Power inductors for power supplies

- **LED lighting**
  - Power inductors for voltage divider and current divider drivers

- **Remote keyless entry (RKE) / Passive keyless entry (PKE)**
  - RFID coils for LF circuit wake-up
  - Chip inductors for RF front end

- **Night vision system**
  - Custom toroids
  - Power inductors
  - High current inductors for power line filtering to and from switching power supplies.

- **Electric power steering (EPS)**
  - High peak current inductors
  - Signal level inductors
  - Custom high current common mode chokes

- **Rear/front view camera systems**
  - Power inductors for switching power supplies

- **Wireless charging**
  - Inductors for efficient DC-DC converters
  - Common mode chokes
  - Inductors for L-C filters

- **Adaptive cruise control (ACC)**
  - Power inductors for power supplies

- **Supplemental restraint system (SRS)**
  - Power inductors for air bag control module
  - Chokes for squib connector

**HEV / EV power systems**

- High current power magnetics for DC-DC converters
- Power inductors, gate drive transformers for control circuits
- Power inductors and transformers for battery pack monitoring and charging
- Custom transformers and power inductors
Component qualifications

Coilcraft uses the AEC-Q200 test plan to verify the robustness of product construction.

### AEC-Q200 Grade 1

**Parts tested at -40°C to +125°C ambient**

#### RF inductors
- 0402CS
- 0403HQ
- 0603CS
- 0805CS
- 0805HQ
- 0906/1606
- 1008CS
- 1008PS
- 1206CS
- 1812CS
- 1812SMS

#### Power inductors
- AGP2923 (140°C)
- DO3316T
- MSS1038T
- MSS1048T
- MSS1246T
- MSS1260T
- MSS1278T
- MSS7341T
- MVR1251T
- SER1412
- XAL1010
- XAL1030
- XAL4020
- XAL4030
- XAL4040
- XAL5020
- XAL5030
- XAL5050
- XAL6020

#### Coupled inductors
- MSD1260T
- MSD1278T

#### Class D inductors
- HA4158
- GA3416

#### Planar transformers
- PL160
- PL300

#### RFID transponder coils
- 4312RV
- 4513TC
- 5315TC

#### Current sensors
- CST4835

### AEC-Q200 Grade 3

**Parts tested at -40°C to +85°C ambient**

#### RF inductors
- 1508/2508
- 1508PS
- 1008LS
- 1008PS
- DC1012
- DO1605T
- DO1606T
- DO1607B
- DO1608C
- DO1813H
- DO3314
- DO3316H
- DO3316H
- DO3316H
- DO5010H
- DO5040H
- EPL2014
- EPL3012
- EPL3015
- LPO2506

#### Power inductors
- 0603LS
- 0805LS
- 0805LS
- 0805LS
- 1008LS
- 1008PS
- DC1012
- DO1605T
- DO1606T
- DO1607B
- DO1608C
- DO1813H
- DO3314
- DO3316H
- DO5010H
- DO5040H
- EPL2014
- EPL3012
- EPL3015
- LPO2506

#### Coupled inductors
- MSD7342

#### EMI filters
- DLF

#### Broadband chokes
- KA4909-AL

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