Coilcraft





Magnetics for automotive electronics

www.coilcraft.com

Your Global Partner

Coilcraft offers a wide range of high-reliability, high-volume magnetics for the automotive industry. We are one of the world's largest manufacturers of coils and transformers for RF, power, EMI and sensing applications.

Our global technical support and engineering centers will help you select the best solution from our extensive catalog of standard, off-the-shelf parts or work with you to develop, prototype and qualify a custom design.

Redundant manufacturing capabilities

around the globe, along with our well-tuned logistics capabilities, assure you of a steady parts supply and quick response to changing market demands.



All of Coilcraft's automotive components are manufactured in **IATF 16949 certified facilities**.

In addition, all facilities have received ISO 9001 (Quality Management System) certification for the "Design and manufacture of SMT and leaded inductive components."

This certification demonstrates that Coilcraft has operational quality systems in place that satisfy the rigorous demands of our customers.





Coilcraft Magnetics for Automotive Applications

LIDAR/Radar Systems Rear/front view camera systems (ADAS) Sensor / System Multi-function and forward-looking imagers Communication Bus (ADAS) antenna systems Chip inductors for Custom sensors Power over Coax power injection chokes impedance matchina Chip inductors Common Mode Chokes Power inductors for for Ethernet/CAN switching power supplies **Telematics** LED backlight / display screen • Chip inductors for impedance Backlight power inductors matching and filtering sections Power inductors for power supplies Instrument cluster Class-D Audio Power inductors Common mode chokes • Dual inductors with low coupling factor for data line filtering • Coupled power inductors Adaptive cruise control (ACC, ADAS) Power inductors Supplemental restraint system for power supplies (SRS, Airbag) Power inductors for air bag control module Chokes for squib connector Mobile device wireless charging Inductors for efficient DC-DC converters Electric power steering (EPS) Common mode chokes High peak current inductors Inductors for L-C filters Signal level inductors Current sensing MN 2 ZX 2456 Custom high current transformers common mode chokes LED lighting

Tire pressure monitoring system (TPMS)

- RFID coils for LF circuit wake-up
- Chip inductors for Q matching

HEV / EV power systems including On-board chargers (OBC)

- 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

Engine control modules (ECU)

- High current power inductors
- Custom transformers
- Custom inductors for power line filtering



 Power inductors for voltage divider and

current divider drivers

Coilcraft Qualified Components

AEC-Q200 Grade 1

 $(-40^{\circ}\text{C to } +125^{\circ}\text{C ambient})$



AEC-Q200 Grade 3

 $(-40^{\circ}\text{C to } +85^{\circ}\text{C ambient})$



RF inductors

0805HQ	132SM
0906/1606	1812CS
1008CS	1812SMS
1206CS	A0xT/B0xT
	0906/1606 1008CS

Power inductors

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AGP2923 (140°C)	XAL1510	XEL4020
AGP4233	XAL1513	XEL4030
DO3316T	XAL1580	XEL5020
MSS1038T	XAL4020	XEL5030
MSS1048T	XAL4030	XFL3010
MSS1246T	XAL4040	XFL4015
MSS1260T	XAL5020	XFL4020
MSS1278T	XAL5030	XFL4030
MSS6132T	XAL5050	XFL501x
MSS7341T	XAL6020	XFL5030
MVR1251T	XAL6030	XFL6012
SER1412	XAL6060	XFL6060
SRT8045	XAL7020	XFL7015
XAL1010	XAL7030	XPL2010
XAL1030	XAL7070	XTL7030
XAL1060	XEL3515	
XAL1350	XEL401x	

Coupled inductors

MSD1260T MSD1278T

Class-D inductors

HA4158 JA4575 UA8013 GA3416 RA7231 UA8014

Planar transformers

PL160 PL300 POE120PL

RFID transponder coils

4312RV 4513TC 5315TC

Current sensors

CST-1,2 CST2020 CST7030 CST2010 CST4835 CU8965-AL

Isolation transformers

PA6547-AL PA6549-AL WA8582-AL

Flyback transformers

TA7608-AL TA7788-AL TA7618-AL UA7902-AL

EMI filters

RA6870-AL

Ultrasonic transformer

WA8351-AL

For complete details and product listings, visit coilcraft.com/AEC.

RF inductors

1508/2508 0805LS 0603LS 1008LS

Power inductors

1008PS	LPS3015	MSS6122
DC1012	LPS4012	MSS6132
DO1605T	LPS4018	MSS7341
DO1606T	LPS5030	MSS7348
DO1607B	LPS6235	MVR12510
DO1608C	LPZ3010	RFC0807
DO1813H	LPZ3015	RFC0810
DO3314	LPZ4012	RFC1010
DO3316H	LPZ4018	RFS1317
DO5010H	MLC12xx	SER1052
DO5040H	MLC15xx	SER1360
EPL2010	MLC75xx	SER1390
EPL2014	MSS1038	SER1590
EPL3012	MSS1048	SER20xx
EPL3015	MSS1210	SER29xx
LPD5030	MSS1246	SLC1175
LPO2506	MSS1260	SLC7530
LPO4812	MSS1278	XFL3012
LPO6610	MSS5121	
LPS3010	MSS5131	

Coupled inductors

LPD8035V MSD1278 MSD1260 MSD7342

EMI filters

DLF

Broadband chokes

KA4909-AL



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