

# ACT1210 Common Mode Filters

## Common Mode Filters for In-vehicle LAN



TDK's ACT1210 series common mode filters are used as an EMC countermeasure in automotive LANs, such as high-speed CAN or FlexRay networks. In order to respond to the market need to save space in ECU circuit boards, the ACT1210 series was developed, reducing mounting area by over 40% as compared with existing product. Typically, reducing the component size would have some impact on the common mode filter's characteristics, however, TDK has adopted a new technology for the structure and a new core material.

### Features

- Reduced size and low magnetic resistance (high common mode inductance) as a result of using a unique core structure, new ferrite material, high precision automatic wire winding system, etc.
- Features excellent thermal resistance through the use of wire with high heat resistance, as well as high stability and reliability due to the use of a high precision automatic wire winding system
- AEC-Q200 certified

Common Mode Filter

Small Size



[Datasheet](#)

### Applications

- CAN-BUS
- FlexRay system
- Common mode filters for

## ACT1210 Series Information

**Case Size:** EIA 1210 - (3.9mm x 2.5mm x 2.5mm)

**Common Mode Impedance (min):** 300-2200Ω

**Common Mode Inductance:** 11-100μH

**DC Resistance (max):** 0.4-1.5Ω

**Current Rating (max):** 300-150mA

6,000 pieces per reel