ACT45R Common Mode Filters

Common Mode Filters for Automotive FlexRay Systems

TDK has developed the ACT45R type common mode filter for FlexRay systems. The ACT45R series are wire wound and have no polarity. Using TDK's unique technology, the ACT45R series can achieve DCR < 2Ω at 125°C by reducing the DC resistance while maintaining a high L-value of 100μH. This series has an operating temperature range of –40°C to +150°C and can be used for vehicle devices requiring compatibility with high temperatures. The ACT45R series is AEC-Q200 certified.

Automotive

Common Mode Filter

Wire Wound

Lead Free | Halogen Free | REACH | RoHS COMPLIANT

Datasheet

Features

- Consistently ensures high quality and reliability thanks to fully automated production processes
- No polarity
- AEC-Q200 certified
- Operating temperature range of –40°C to +150°C
- Storage temperature range of –40°C to +150°C after the PC board is mounted
- When mounting, the terminal and winding tape splicing part do not fuse

Applications

- FlexRay System

ACT45R Series Information

Case Size: (EIA 1812) 4.5 x 3.2 x 2.8mm
Common Mode Inductance (100kHz): 100μH +50/-30%
Common Mode Impedance (10MHz): 2200Ω min.
DC Resistance (max): 1.5Ω
Current Rating (max): 0.2A

2,500 pieces per reel