

ACT45L Common Mode Filters

Common Mode Filters for Automotive LAN



TDK has developed the ACT45L type common mode filter for in-vehicle Ethernet systems. The ACT45L common mode filter achieves an excellent mode conversion characteristic Scd21 while offering a high inductance value of 200µH, owing to TDK's unique winding technology and high precision automatic winding system. The ACT45L has achieved excellent noise suppression characteristics in a small and low-profile form.

Features

- Consistently ensures high quality and reliability thanks to fully automated production processes
- Solderless design
- AEC-Q200 certified
- Operating temperature range of –40°C to +105°C
- Storage temperature range of –40°C to +105°C after the PC board is mounted
- When mounting, the terminal and winding tape splicing part do not fuse

Automotive

Common Mode Filter











Datasheet

Applications

 EMC measure in in-vehicle Ethernet systems for communication of video images from on-board cameras or audio signals

ACT45L Series Information

Case Size: (EIA 1812) 4.5 x 3.2 x 2.8mm Common Mode Inductance (100kHz): 200μH +60/-20μH

DC Resistance (max): 4.5Ω Current Rating (max): 100mA

2,500 pieces per reel