

VLS-EX Series

Consumer Grade Wire-Wound Power Inductors



The TDK VLS-EX Series inductors are magnetically shielded, wire-wound inductors designed for power circuits. The exterior of the product is covered with a magnetic material to prevent leakage of magnetic flux generated inside the product, as well as to protect it from external effects. The ferrite magnetic material of the core exhibits higher permeability as compared to products with a metallic magnetic material core. This ferrite core results in a small eddy current loss and allows VLS-EX series power inductors to be used at relatively higher frequencies.

Features

- Magnetically shielded, wire-wound inductors
- High magnetic shield construction achieved by a ferrite magnetic material
- Larger current and lower Rdc have been achieved by optimizing the ferrite core figure
- Compatible with high-density mounting
- Operating temperature of -40°C to $+105^{\circ}\text{C}$
- Storage temperature of -40°C to $+105^{\circ}\text{C}$ after PC board mounting

Applications

- TVs
- Game Devices
- STBs
- Other audiovisual equipment

Wire Wound

Power

Consumer



[VLS5045-EX Series](#)

[VLS6045-EX Series](#)

VLS-EX Series Includes:

Case Size: 5045 & 6045

Inductance Range: 0.47-220 μH (varies with case size)

DC Resistance: 0.010– 1.15 Ω

Rated Current: 13.5-0.45mA max.

1,500 Pieces per Reel