



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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VLS6045EX Series Inductor Sample Kit



Wire Wound Inductors for Power Circuits

TDK's VLS-EX series power inductors are magnetically shielded, wire-wound inductors with a ferrite core. The core material of the VLS-EX series has been optimized, resulting in a higher rated current specification and lower Rdc. This series has a high magnetic shield construction, which is achieved through the use of ferrite magnetic material and is compatible with high-density mounting. VLS-EX inductors are designed for use in power circuit applications in TVs, STBs, game devices & other audiovisual equipment, as well as DC/DC conversion for home appliances, air conditioning, industrial test equipment, lighting applications, and power generators.

Shielded

Wire Wound

Commercial



Features

- Magnetically shielded, wire wound, ferrite core material
- Larger current and low Rdc is achieved through optimization of the ferrite core
- Compatible with high-density mounting
- Suitable for operating temperatures of -40°C to $+105^{\circ}\text{C}$
- Storage temperature (after the circuit board is mounted): -40°C to $+105^{\circ}\text{C}$

Applications

- TVs, STBs, game devices, & other audiovisual equipment
- DC/DC conversion for home appliances
- Air conditioning
- Industrial test equipment
- Lighting applications
- Power generators

Sample Kit Information

Series	Size [mm]	Thickness [mm]	Inductance [μH]	DC Resistance—max. [Ω] \pm 30%	Current Rating [A] Max.
VLS6045EX	6.0 x 6.0	4.5	0.47 to 220	0.010 to 1.15	13.5 to 0.8

Kit contains 60 pieces total—5 pieces each of 12 values

Digi-Key Part Number: [445-175164-KIT-ND](#)



VLS6045EX Series Inductor Sample Kit

Wire Wound Inductors for Power Circuits



Digi-Key Part Number	TDK Part Number	Part Number Description
445-175164-KIT-ND	VLS6045EX-1R0N	6x6x4.5mm, Inductor, 1.0 μ H, 30%
	VLS6045EX-1R5N	6x6x4.5mm, Inductor, 1.5 μ H, 30%
	VLS6045EX-2R2N	6x6x4.5mm, Inductor, 2.2 μ H, 20%
	VLS6045EX-4R7M	6x6x4.5mm, Inductor, 4.7 μ H, 20%
	VLS6045EX-100M	6x6x4.5mm, Inductor, 10 μ H, 20%
	VLS6045EX-150M	6x6x4.5mm, Inductor, 15 μ H, 20%
	VLS6045EX-220M	6x6x4.5mm, Inductor, 22 μ H, 20%
	VLS6045EX-330M	6x6x4.5mm, Inductor, 33 μ H, 20%
	VLS6045EX-680M	6x6x4.5mm, Inductor, 68 μ H, 20%
	VLS6045EX-101M	6x6x4.5mm, Inductor, 100 μ H, 20%
	VLS6045EX-151M	6x6x4.5mm, Inductor, 150 μ H, 20%
	VLS6045EX-221M	6x6x4.5mm, Inductor, 220 μ H, 20%