

# 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  $-40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$
- Storage temperature (after the circuit board is mounted):  $-40^{\circ}\text{C}$  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 [ $\mu\text{H}$ ]	DC Resistance—max. [ $\Omega$ ] $\pm$ 30%	Current Rating [A] Max.
<a href="#">VLS6045EX</a>	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](#)



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