

VLS4012HBX-KIT

Wire Wound, Metal Core Power Inductor Sample Kit

PRODUCT HIGHLIGHTS

- Magnetically shielded, wire wound inductors for power circuits with a metal core
- Larger current achieved through use of metallic magnetic material
- High magnetic shield construction and compatible with high-density mounting
- Dimensions: 4.0 x 4.0 x 1.2 mm
- Operating temperature range of -40°C to +105°C



APPLICATION EXAMPLES

- HDD, SSD, DVC, DSC, mobile display panels, smart phones, tablet terminals, portable gaming devices, compact power supply modules, etc.

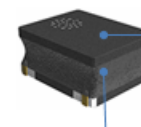
DESIGN RESOURCES

- [VLS4012HBX Datasheet](#)
- [VLS Series Power Inductor Product Overview](#)
- [Selection Guide - Inductors for Power Circuits](#)
- [Application Note - How to Use Power Inductors](#)

VLS4012HBX-KIT Contents

TDK Part Number	Description	Quantity
VLS4012HBX-R68M	680nH ±20%, 8.2A, 44mΩ	10 pcs
VLS4012HBX-1R0M	1μH ±20%, 7.55A, 53mΩ	10 pcs
VLS4012HBX-1R5M	1.5μH ±20%, 6.21A, 66mΩ	10 pcs
VLS4012HBX-2R2M	2.2μH ±20%, 5.2A, 94mΩ	10 pcs
VLS4012HBX-3R3M	3.3μH ±20%, 4.18A, 119mΩ	10 pcs
VLS4012HBX-4R7M	4.7μH ±20%, 3.6A, 159mΩ	10 pcs
VLS4012HBX-6R8M	6.8μH ±20%, 3.07A, 208mΩ	10 pcs
VLS4012HBX-100M	10μH ±20%, 2.36A, 338mΩ	10 pcs
VLS4012HBX-150M	15μH ±20%, 1.95A, 503mΩ	10 pcs
VLS4012HBX-220M	22μH ±20%, 1.57A, 684mΩ	10 pcs

Product Structure

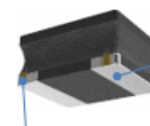


DR core

- Square DR core design is employed for better magnetic characteristics.

External resin coating with magnetic powder mixed in

- Magnetic material is mixed in external resin coating for better magnetic characteristics.



Silver electrode + plating

- The silver electrode structure is employed for lower profile and better magnetic characteristics.

Thermo compression bonded connecting wire

- Thermo compression bonded connecting wires are used for higher production efficiency.
- High joint strength: Reflow resistance, shock resistance.