

VLS6045EX-H-KIT

Wound Ferrite Power Inductor Sample Kit

PRODUCT HIGHLIGHTS

- · Magnetically shielded, wire wound inductors for power circuits
- · Larger current and lower Rdc than conventional products
- Magnetic shield structure enables high-density mounting
- · Stable manufacturing is ensured through use of automated production line
- Dimensions: 6.0 x 6.3 x 4.5 mm
- Operating temperature range of -40°C to +125°C
- · AEC-Q200 compliant

APPLICATION EXAMPLES

 Automotive-related equipment (ECM, airbags, headlights, electronic power steering, meters, ABS, etc.)

VLS6045EX-H-KIT Contents		
TDK Part Number	Description	Quantity
VLS6045EX-1R0N-H	1μH ±30%, 12A, 16mΩ, AEC-Q200	6 pcs
VLS6045EX-1R5N-H	1.5μH ±30%, 8.2A, 22mΩ, AEC-Q200	6 pcs
VLS6045EX-2R2N-H	2.2μH ±30%, 7.5A, 25mΩ, AEC-Q200	6 pcs
VLS6045EX-3R3N-H	$3.3 \mu H \pm 30\%, 6.5 A, 30 m \Omega, AEC-Q200$	6 pcs
VLS6045EX-4R7M-H	4.7μH ±20%, 5.8A, 35mΩ, AEC-Q200	6 pcs
VLS6045EX-6R8M-H	6.8μH ±20%, 4.7A, 47mΩ, AEC-Q200	6 pcs
VLS6045EX-100M-H	10μH ±20%, 3.9A, 61mΩ, AEC-Q200	6 pcs
VLS6045EX-150M-H	15μH ±20%, 3.1A, 98mΩ, AEC-Q200	6 pcs
VLS6045EX-220M-H	22μH ±20%, 2.4A, 137mΩ, AEC-Q200	6 pcs
VLS6045EX-330M-H	33μH ±20%, 1.9A, 228mΩ, AEC-Q200	6 pcs
VLS6045EX-470M-H	47μH ±20%, 1.8A, 299mΩ, AEC-Q200	6 pcs
VLS6045EX-680M-H	68μH ±20%, 1.4A, 403mΩ, AEC-Q200	6 pcs
VLS6045EX-151M-H	150μH ±20%, 0.9A, 988mΩ, AEC-Q200	6 pcs
VLS6045EX-221M-H	220μH ±20%, 0.8A, 1495mΩ, AEC-Q200	6 pcs



DESIGN RESOURCES

- VLS6045EX-H Datasheet
- VLS Series Power Inductor Product Overview
- Selection Guide Inductors for Power Circuits
- Application Note How to Use Power Inductors

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.



Metal terminal + plating

 Metal terminals are used for ensuring the flatness of the mounting surface.

Laser welded connecting wire

- ·Laser welded connecting wires are used for higher production efficiency.
- ·High joint strength: Reflow resistance, shock resistance.