

VLS5045EX-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: 5.0 x 5.3 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.)

VLS5045EX-H-KIT Contents		
TDK Part Number	Description	Quantity
VLS5045EX-1R0N-H	1μH ±30%, 8.9A, 19.5mΩ, AEC-Q200	6 pcs
VLS5045EX-1R5N-H	1.5μH ±30%, 7.4A, 22.1mΩ, AEC-Q200	6 pcs
VLS5045EX-2R2N-H	2.2μH ±30%, 6.4A, 28.6mΩ, AEC-Q200	6 pcs
VLS5045EX-3R3N-H	$3.3 \mu H \pm 30\%$, $5.2 A$, $35.1 m \Omega$, AEC-Q200	6 pcs
VLS5045EX-4R7M-H	4.7μH ±20%, 4.4A, 46.8mΩ, AEC-Q200	6 pcs
VLS5045EX-6R8M-H	$6.8 \mu H \pm 20\%, 3.6 A, 59.8 m \Omega, AEC-Q200$	6 pcs
VLS5045EX-100M-H	10μH ±20%, 3.1A, 79.3mΩ, AEC-Q200	6 pcs
VLS5045EX-150M-H	15μH ±20%, 2.2A, 143mΩ, AEC-Q200	6 pcs
VLS5045EX-220M-H	22μH ±20%, 2A, 162.5mΩ, AEC-Q200	6 pcs
VLS5045EX-330M-H	33μ H ±20%, 1.5A, $312m\Omega$, AEC-Q200	6 pcs
VLS5045EX-470M-H	47μH ±20%, 1.3A, 390mΩ, AEC-Q200	6 pcs
VLS5045EX-680M-H	$68\mu H \pm 20\%$, 1.1A, $533m\Omega$, AEC-Q200	6 pcs
VLS5045EX-101M-H	100μH ±20%, 0.8A, 754mΩ, AEC-Q200	6 pcs
VLS5045EX-151M-H	150μH ±20%, 0.56A, 949mΩ, AEC-Q200	6 pcs
VLS5045EX-221M-H	220μH ±20%, 0.45A, 1365mΩ, AEC-Q200	6 pcs



DESIGN RESOURCES

- VLS5045EX-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.