

VLS2520XX-HBU-KIT Power Inductor Sample Kit

Wire Wound Inductors for Power Circuit Applications

TDK's VLS2520XX-HBU series power inductors are magnetically shielded, wire-wound inductors with a metallic magnetic core material. The core material of the VLS-HBU series has been improved, resulting in a higher rated current specification than previous VLS series product. This series achieves high withstanding voltage (40V) due to the insulating technology of its metallic core material. VLS-HBU inductors are designed for use in power circuit applications including LCD LED backlight, LCD panel, OLED panel, and LCD driver applications.



- Metal Core
- Wire Wound
- Shielded



Features

- Magnetically shielded, wire wound inductor
- Large current was achieved through use of a metallic magnetic core material
- High withstand voltage (40V) was achieved by insulating technology of metallic material
- Operating and storage temperature range of -40 to $+105^{\circ}\text{C}$

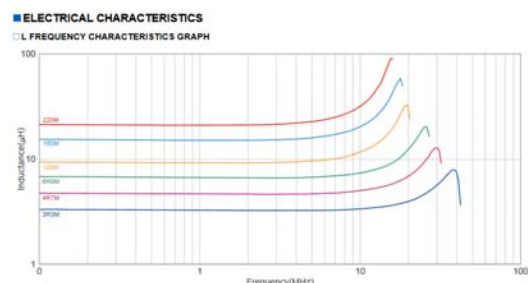
Applications

- LCD LED Backlight
- LCD Panel
- OLED Panel

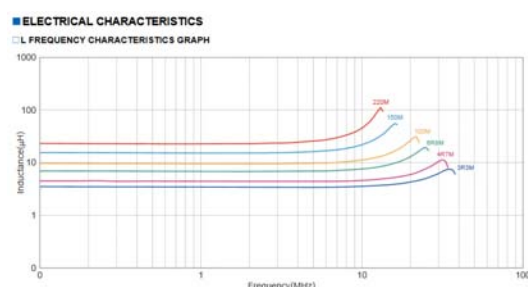
Sample Kit Information

Series	Size [mm]	Thickness [mm]	Inductance [μH] $\pm 20\%$	DC Resistance [Ω] Max.	Saturation Current [A] Max.
VLS252010HBU	2.5 x 2.0	1.0	3.3 to 22 μH	0.270 to 2.004	2.00 to 0.75
VLS252012HBU		1.2		0.216 to 1.680	2.36 to 0.86

VLS252010HBU Series



VLS252012HBU Series



Kit contains 120 pieces total—10 pieces each of 12 values

Digi-Key Part Number: [445-175081-KIT-ND](#)



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Digi-Key Part Number	TDK Part Number	Part Number Description
445-175081-KIT-ND	VLS252010HBU-3R3M	2520, t=1.0mm, Inductor, 3.3uH, 20%
	VLS252010HBU-4R7M	2520, t=1.0mm, Inductor, 4.7uH, 20%
	VLS252010HBU-6R8M	2520, t=1.0mm, Inductor, 6.8uH, 20%
	VLS252010HBU-100M	2520, t=1.0mm, Inductor, 10uH, 20%
	VLS252010HBU-150M	2520, t=1.0mm, Inductor, 15uH, 20%
	VLS252010HBU-220M	2520, t=1.0mm, Inductor, 22uH, 20%
	VLS252012HBU-3R3M	2520, t=1.2mm, Inductor, 3.3uH, 20%
	VLS252012HBU-4R7M	2520, t=1.2mm, Inductor, 4.7uH, 20%
	VLS252012HBU-6R8M	2520, t=1.2mm, Inductor, 6.8uH, 20%
	VLS252012HBU-100M	2520, t=1.2mm, Inductor, 10uH, 20%
	VLS252012HBU-150M	2520, t=1.2mm, Inductor, 15uH, 20%
	VLS252012HBU-220M	2520, t=1.2mm, Inductor, 22uH, 20%