

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[TDK Corporation](#)
[VLC5045T-100M](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

SMD Inductors(Coils) For Power Line(Wound, Magnetic Shielded)

Conformity to RoHS Directive

VLC Series VLC5045

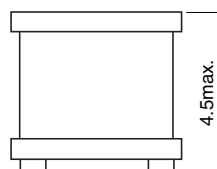
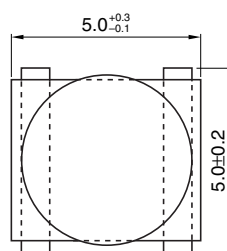
FEATURES

- Miniature size
 Mount area: 5×5mm
 Height: 4.5mm max.
- Generic use for portable DC to DC converter line
- Available for automatic mounting in tape and reel package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS

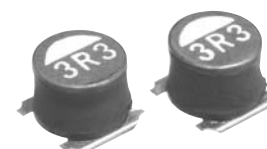
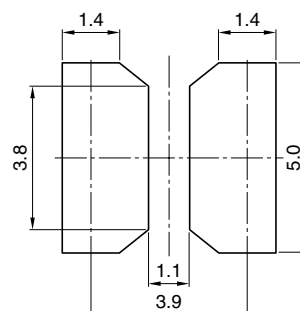
DC to DC converters for LCD-TV, printers, note PC, etc.

SHAPES AND DIMENSIONS



Dimensions in mm

RECOMMENDED PC BOARD PATTERN



Dimensions in mm

ELECTRICAL CHARACTERISTICS

Part No.	Inductance (μH)	Inductance tolerance	Test frequency (kHz)	DC resistance(Ω)		Rated current(A)*	
				max.	typ.	Based on inductance change max.	Based on temperature rise typ.
VLC5045T-1R5N	1.5	±30%	100	0.018	0.014	5.5	4.6
VLC5045T-2R2N	2.2	±30%	100	0.022	0.017	5.0	4.3
VLC5045T-3R3N	3.3	±30%	100	0.029	0.023	4.0	4.0
VLC5045T-4R7M	4.7	±20%	100	0.034	0.028	3.3	3.2
VLC5045T-6R8M	6.8	±20%	100	0.046	0.038	2.7	2.8
VLC5045T-100M	10	±20%	100	0.066	0.055	2.1	2.3
VLC5045T-150M	15	±20%	100	0.100	0.083	1.8	1.9
VLC5045T-220M	22	±20%	100	0.17	0.13	1.6	1.5
VLC5045T-330M	33	±20%	100	0.23	0.19	1.2	1.1

* Rated current: Value obtained when current flows and the temperature has risen to 40°C or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.

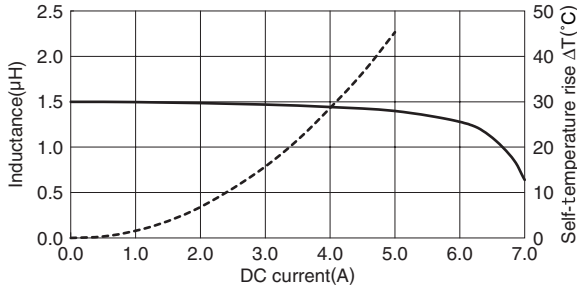
- Operating temperature range: -40 to +105°C (Including self-temperature rise)

TYPICAL ELECTRICAL CHARACTERISTICS

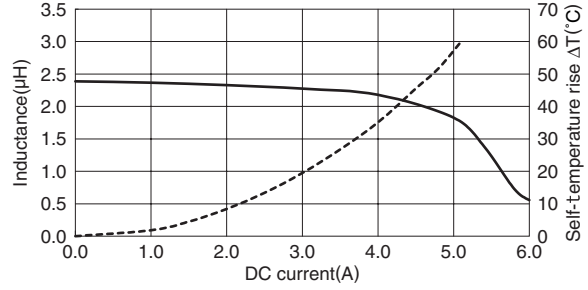
INDUCTANCE CHANGE and TEMPERATURE RISE vs. Idc SUPERPOSITION

— Idc vs. Inductance(μ H)
 - - - Idc vs. $\Delta T(^{\circ}C)$

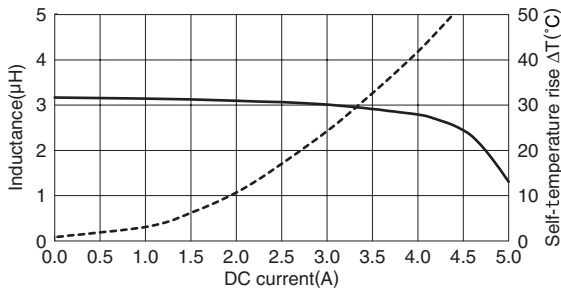
VLC5045T-1R5N



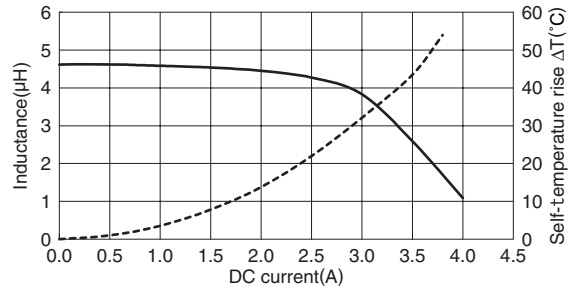
VLC5045T-2R2N



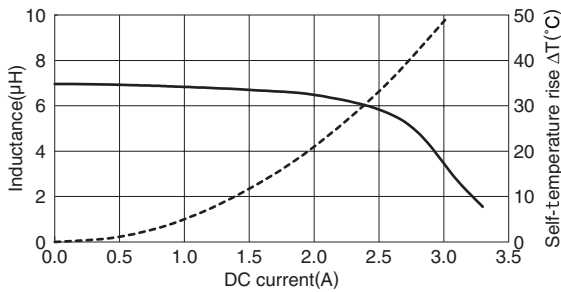
VLC5045T-3R3N



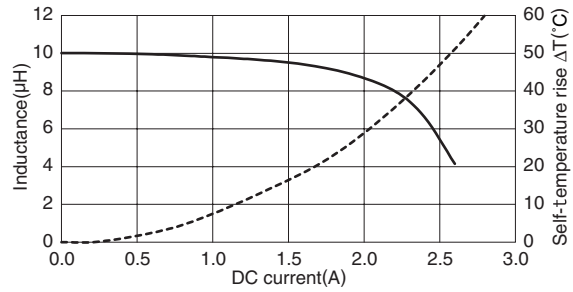
VLC5045T-4R7M



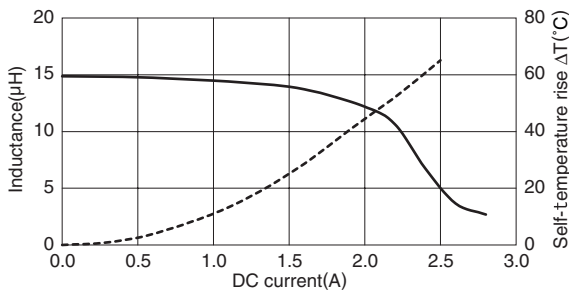
VLC5045T-6R8M



VLC5045T-100M



VLC5045T-150M



VLC5045T-220M

