

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

Conformity to RoHS Directive

VLC Series VLC6038

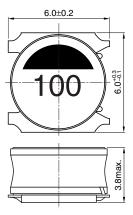
FEATURES

- Miniature size
 Mount area: 6×6mm
 Height: 3.8mm max.
- Generic use for portable DC to DC converter line.
- Available for automatic mounting in tape and real package.
- The products do not contain lead and support lead-free soldering.
- It is a product conforming to halogen-free.

APPLICATIONS

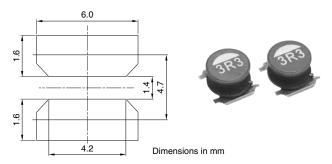
DC to DC converters for LCD TVs, printers, note PCs, etc.

SHAPES AND DIMENSIONS



Dimensions in mm

RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

Part No.	Inductance (µH)	Inductance tolerance (%)	Test frequency (kHz)	DC resistance (Ω)		Rated current(A)*	
				max.	typ.	Based on inductance	Based on temperature
						change max.	rise typ.
VLC6038T-3R3N	3.3	±30	100	0.043	0.033	3.9	3.2
VLC6038T-4R7M	4.7	±20	100	0.052	0.040	3.3	2.9
VLC6038T-6R8M	6.8	±20	100	0.063	0.049	2.8	2.7
VLC6038T-100M	10	±20	100	0.085	0.066	2.4	2.3
VLC6038T-150M	15	±20	100	0.12	0.088	2.0	2.0

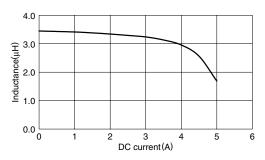
- * Rated current: Value obtained when current flows and the temperature has risen to 40°C or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.
- Operating temperature range: -40 to +105°C (Including self-temperature rise)
- Test equipment Inductance: 4285A PRECISION LCR METER, HP or equivalant
 Rdc: MILLIOHM METER VP-2941A, MATSUSHITA or equivalant

L(Idc1): 4285A PRECISION LCR METER, HP with 42841A BIAS CURRENT SOURCE, HP/42842C TEST FIXTURE, HP or equivalant

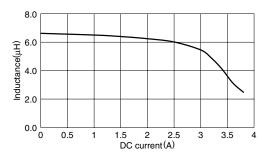
- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
- All specifications are subject to change without notice.



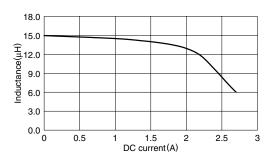
TYPICAL ELECTRICAL CHARACTERISTICS INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS VLC6038T-3R3N



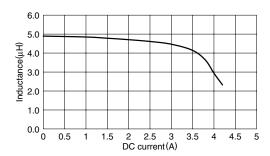
VLC6038T-6R8M



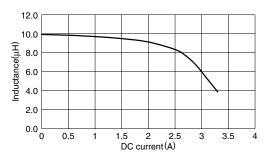
VLC6038T-150M



VLC6038T-4R7M



VLC6038T-100M



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