TDK

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

Conformity to RoHS Directive

VLCF Series VLCF4028-2

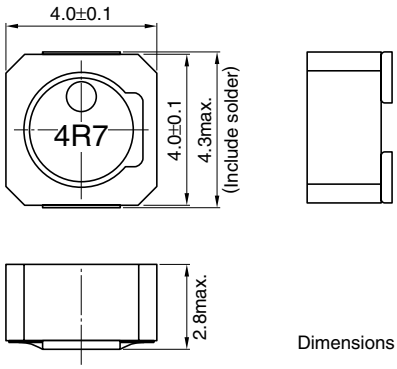
FEATURES

- Mount area: 4×4mm
  Low profile: 2.8mm max. height
- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products contain no lead and also support lead-free soldering.
- It is a product conforming to RoHS directive.

APPLICATIONS

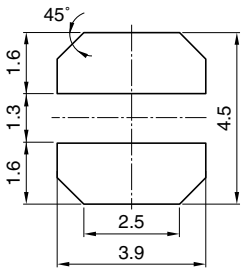
Power souce inductor for mobile devices such as mobile phones, HDDs, and DSCs

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.
VLCF4028T-1R2N2R7-2	1.2	±30	100	0.032	0.027	2.71	3.11
VLCF4028T-1R6N2R3-2	1.6	±30	100	0.038	0.032	2.31	2.85
VLCF4028T-2R2N1R9-2	2.2	±30	100	0.043	0.037	1.94	2.63
VLCF4028T-2R7N1R8-2	2.7	±30	100	0.049	0.043	1.89	2.46
VLCF4028T-4R7N1R5-2	4.7	±30	100	0.062	0.054	1.57	2.18
VLCF4028T-6R8N1R3-2	6.8	±30	100	0.1	0.09	1.36	1.69
VLCF4028T-100M1R0-2	10	±20	100	0.14	0.12	1.06	1.45
VLCF4028T-150MR88-2	15	±20	100	0.17	0.15	0.88	1.05
VLCF4028T-220MR72-2	22	±20	100	0.24	0.21	0.72	0.9
VLCF4028T-330MR61-2	33	±20	100	0.35	0.3	0.61	0.74
VLCF4028T-470MR48-2	47	±20	100	0.49	0.42	0.48	0.78
VLCF4028T-101MR33-2	100	±20	100	1	0.87	0.33	0.55
VLCF4028T-471MR14-2	470	±20	100	4.58	3.98	0.14	0.25

* 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)

- 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.