

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

Conformity to RoHS Directive

## VLCF Series VLCF4020

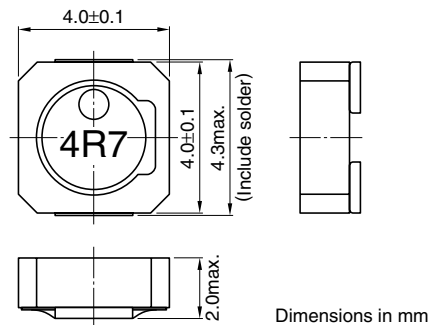
### FEATURES

- Miniature size  
Mount area: 4×4mm  
Height: 2.0mm max.
- 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 reel package.
- The products do not contain lead and support lead-free soldering.

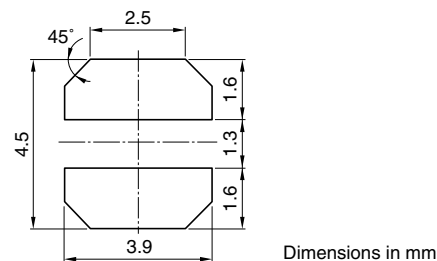
### APPLICATIONS

DC to DC converters for DVC, DSC, PDA, MD, LCD displays, HDDs, etc.

### SHAPES AND DIMENSIONS



### 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 change max.	Based on temperature rise typ.
VLCF4020T-1R8N1R9	1.8	±30	100	0.051	0.046	1.97	2.37
VLCF4020T-2R2N1R7	2.2	±30	100	0.059	0.054	1.72	2.19
VLCF4020T-3R3N1R5	3.3	±30	100	0.078	0.071	1.52	1.94
VLCF4020T-4R7N1R2	4.7	±30	100	0.098	0.089	1.24	1.71
VLCF4020T-6R8N1R0	6.8	±30	100	0.131	0.119	1.05	1.47
VLCF4020T-100MR85	10	±20	100	0.185	0.168	0.85	1.22
VLCF4020T-150MR68	15	±20	100	0.303	0.275	0.68	1.0
VLCF4020T-220MR56	22	±20	100	0.431	0.391	0.56	0.8
VLCF4020T-270MR48	27	±20	100	0.496	0.451	0.48	0.8
VLCF4020T-330MR47	33	±20	100	0.628	0.571	0.47	0.69
VLCF4020T-470MR39	47	±20	100	0.934	0.849	0.39	0.56
VLCF4020T-101MR26	100	±20	100	1.4	1.308	0.26	0.45

\* 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.

• All specifications are subject to change without notice.