

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

Conformity to RoHS Directive

## VLF Series VLF10040

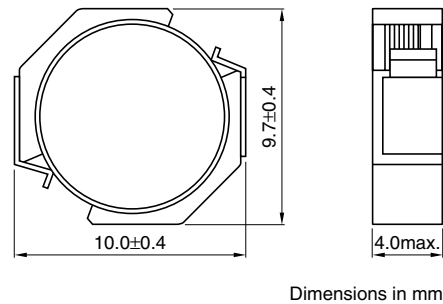
### FEATURES

- Mount area: 9.7×10.0mm  
Low profile: 4.0mm max. height
- Compare to SLF10145(TDK conventional product) type  
Low loss and large current capability design  
DC resistance: 0.92×SLF10145  
Rated DC current: 1.3×SLF10145
- 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

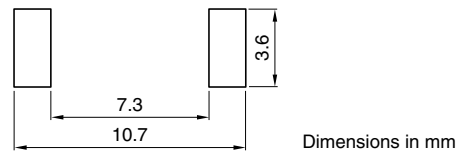
Note book computers, amusement equipment, DVD players, VRMs, plasma displays, etc.

### 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(mΩ) |      | Rated current(A)*               |                                |
|--------------------|-----------------|-------------------------|----------------------|-------------------|------|---------------------------------|--------------------------------|
|                    |                 |                         |                      | max.              | typ. | Based on inductance change max. | Based on temperature rise typ. |
| VLF10040T-1R0N9R7  | 1.0             | ±30                     | 100                  | 5.2               | 4.3  | 11.9                            | 9.7                            |
| VLF10040T-1R5N8R9  | 1.5             | ±30                     | 100                  | 6.2               | 5.1  | 9.9                             | 8.9                            |
| VLF10040T-2R2N7R1  | 2.2             | ±30                     | 100                  | 9.5               | 7.9  | 8.2                             | 7.1                            |
| VLF10040T-3R3N6R2  | 3.3             | ±30                     | 100                  | 12.6              | 10.5 | 6.7                             | 6.2                            |
| VLF10040T-4R7N5R4  | 4.7             | ±30                     | 100                  | 15.3              | 12.7 | 5.4                             | 5.6                            |
| VLF10040T-6R8N4R5  | 6.8             | ±30                     | 100                  | 23.8              | 19.8 | 4.6                             | 4.5                            |
| VLF10040T-100M3R8  | 10              | ±20                     | 100                  | 33                | 28   | 3.8                             | 3.8                            |
| VLF10040T-150M3R1  | 15              | ±20                     | 100                  | 42                | 36   | 3.1                             | 3.3                            |
| VLF10040T-220M2R5  | 22              | ±20                     | 100                  | 58                | 50   | 2.5                             | 2.8                            |
| VLF10040T-330M2R1  | 33              | ±20                     | 100                  | 93                | 80   | 2.1                             | 2.2                            |
| VLF10040T-470M1R7  | 47              | ±20                     | 100                  | 124               | 108  | 1.7                             | 1.9                            |
| VLF10040T-680M1R4  | 68              | ±20                     | 100                  | 178               | 155  | 1.4                             | 1.6                            |
| VLF10040T-101M1R2  | 100             | ±20                     | 100                  | 248               | 216  | 1.2                             | 1.3                            |
| VLF10040T-151MR99  | 150             | ±20                     | 100                  | 394               | 343  | 0.99                            | 1.1                            |
| VLF10040T-221MR81  | 220             | ±20                     | 100                  | 537               | 467  | 0.81                            | 0.9                            |
| VLF10040AT-331MR67 | 330             | ±20                     | 100                  | 870               | 757  | 0.67                            | 0.7                            |

\* 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.

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