**&TDK** 

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

# **Conformity to RoHS Directive**

# SLF Series SLF7032

# FEATURES

- The SLF series are characterized by low profile, low DC resistance, and high current handling capacities.
- Because they are magnetically shielded, these parts can be used in high-density mounting configurations.
- · Flat bottom surface ensures secure, reliable mounting.
- Provided in embossed carrier tape packaging for use with automatic mounting machines.

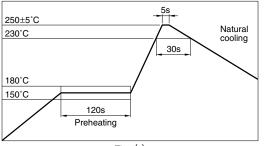
# APPLICATIONS

Portable telephones, personal computers, hard disk drives, and other electronic equipment.

#### SPECIFICATIONS

| Operating temperature range | –20 to +85°C                      |
|-----------------------------|-----------------------------------|
| Operating temperature range | [Including self-temperature rise] |
| Storage temperature range   | -40 to +85°C[Unit of products]    |

# **RECOMMENDED REFLOW SOLDERING CONDITIONS**



Time(s)

#### PRODUCT IDENTIFICATION

| SLF | 7032 | T-  | 220 | М   | R96 | -2  | PF  |
|-----|------|-----|-----|-----|-----|-----|-----|
| (1) | (2)  | (3) | (4) | (5) | (6) | (7) | (8) |

#### (1) Series name

(2) Dimensions

000

Μ

| 7032 | 7.0×7.0×3.2mm (L×W×T) |
|------|-----------------------|
|      |                       |

(3) Packaging style

| Т | Taping(reel) |  |
|---|--------------|--|
| _ |              |  |

(4) Inductance value

| 383 | 3.3μΠ |  |
|-----|-------|--|
| 100 | 10µH  |  |
|     |       |  |

0.0.11

±20%

(5) Inductance tolerance

(6) Rated current

| ,<br>1R9 | 1.9A  |  |
|----------|-------|--|
| R96      | 0.96A |  |

#### (7) TDK internal code

Some products may not have this number.

#### (8) Lead-free compatible product

| PF | Lead-free compatible product |
|----|------------------------------|
|    |                              |

#### PACKAGING STYLE AND QUANTITIES

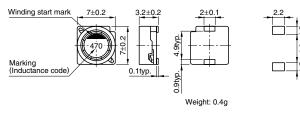
| Packaging style | Quantity         |
|-----------------|------------------|
| Taping          | 1000 pieces/reel |

 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.

*<b>WTDK* 

### SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



#### Dimensions in mm

## **ELECTRICAL CHARACTERISTICS**

| Inductance | Inductance | Test frequency | DC resistance | Rated current | Part No.             |
|------------|------------|----------------|---------------|---------------|----------------------|
| (µH)       | tolerance  | L (kHz)        | (Ω)±20%       | (A)max.       | Part No.             |
| 3.3        | ±20%       | 100            | 0.023         | 1.9           | SLF7032T-3R3M1R9-2PF |
| 4.7        | ±20%       | 100            | 0.030         | 1.7           | SLF7032T-4R7M1R7-2PF |
| 6.8        | ±20%       | 100            | 0.041         | 1.6           | SLF7032T-6R8M1R6-2PF |
| 10         | ±20%       | 100            | 0.053         | 1.4           | SLF7032T-100M1R4-2PF |
| 15         | ±20%       | 100            | 0.075         | 1.1           | SLF7032T-150M1R1-2PF |
| 22         | ±20%       | 100            | 0.11          | 0.96          | SLF7032T-220MR96-2PF |
| 33         | ±20%       | 100            | 0.16          | 0.75          | SLF7032T-330MR75-2PF |
| 47         | ±20%       | 100            | 0.24          | 0.67          | SLF7032T-470MR67-2PF |
| 68         | ±20%       | 100            | 0.31          | 0.59          | SLF7032T-680MR59-2PF |
| 100        | ±20%       | 100            | 0.45          | 0.45          | SLF7032T-101MR45-2PF |
| 150        | ±20%       | 100            | 0.65          | 0.37          | SLF7032T-151MR37-2PF |
| 220        | ±20%       | 100            | 1.05          | 0.29          | SLF7032T-221MR29-2PF |
| 330        | ±20%       | 100            | 1.67          | 0.22          | SLF7032T-331MR22-2PF |
| 470        | ±20%       | 100            | 2.05          | 0.2           | SLF7032T-471MR20-2PF |
| 680        | ±20%       | 100            | 3.15          | 0.16          | SLF7032T-681MR16-2PF |
| 1000       | ±20%       | 100            | 4.78          | 0.13          | SLF7032T-102MR13-2PF |

 Test equipment L: 4194A IMPEDANCE/GAIN-PHASE ANALYZER HP, or equivalent (Measured at 100kHz/0.5V) Rdc:MATSUSHITA,VP-2941A DIGITAL MILLIOHM METER, or equivalent

# TYPICAL ELECTRICAL CHARACTERISTICS INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS

