

# 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.

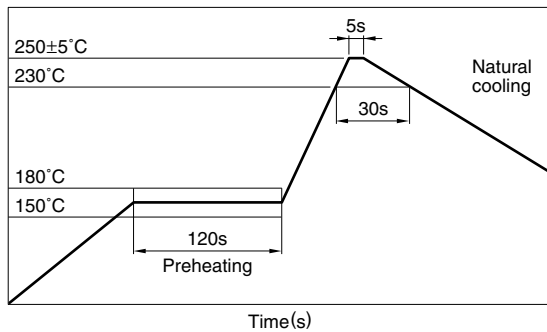
### APPLICATIONS

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

### SPECIFICATIONS

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

### RECOMMENDED REFLOW SOLDERING CONDITIONS



### PRODUCT IDENTIFICATION

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

(1) Series name

(2) Dimensions

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

(3) Packaging style

|   |              |
|---|--------------|
| T | Taping(reel) |
|---|--------------|

(4) Inductance value

|     |       |
|-----|-------|
| 3R3 | 3.3μH |
| 100 | 10μH  |

(5) Inductance tolerance

|   |      |
|---|------|
| M | ±20% |
|---|------|

(6) Rated current

|     |       |
|-----|-------|
| 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 |
|----|------------------------------|

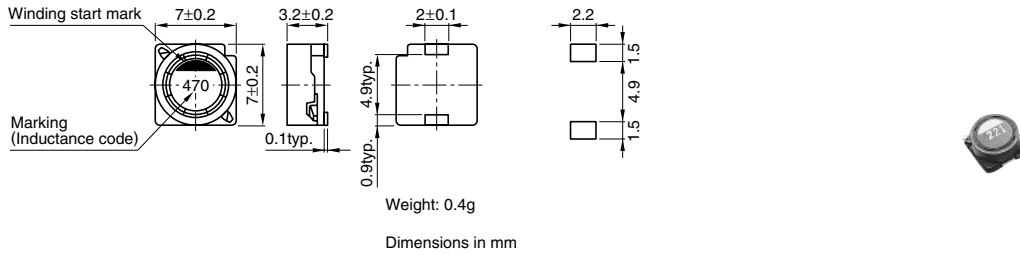
### PACKAGING STYLE AND QUANTITIES

|                 |                  |
|-----------------|------------------|
| 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.

## SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



## ELECTRICAL CHARACTERISTICS

| Inductance (μH) | Inductance tolerance | Test frequency L (kHz) | DC resistance (Ω)±20% | Rated current (A)max. | Part No.             |
|-----------------|----------------------|------------------------|-----------------------|-----------------------|----------------------|
| 3.3             | ±20%                 | 100                    | 0.023                 | 1.9                   | SLF7032T-3R3M1R9-2PF |
| 4.7             | ±20%                 | 100                    | 0.036                 | 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

