



# THE DATASHEET OF SLF7030T-6R8M1R5-PF

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

Conformity to RoHS Directive

## SLF Series SLF7030

### 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.

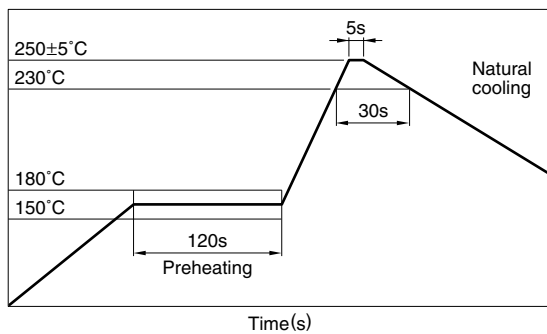
### APPLICATIONS

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 | 7030 | T-  | 220 | M   | R86 | -   | PF |
|-----|------|-----|-----|-----|-----|-----|----|
| (1) | (2)  | (3) | (4) | (5) | (6) | (7) |    |

(1) Series name

(2) Dimensions

|      |                       |
|------|-----------------------|
| 7030 | 7.0×7.0×3.0mm (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

|     |       |
|-----|-------|
| 1R8 | 1.8A  |
| R86 | 0.86A |

(7) Lead-free compatible product

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

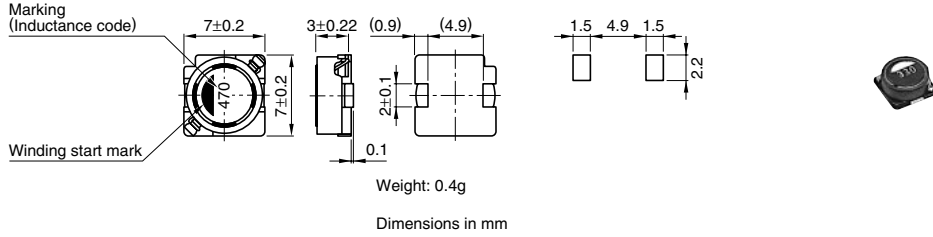
### PACKAGING STYLE AND QUANTITIES

| 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

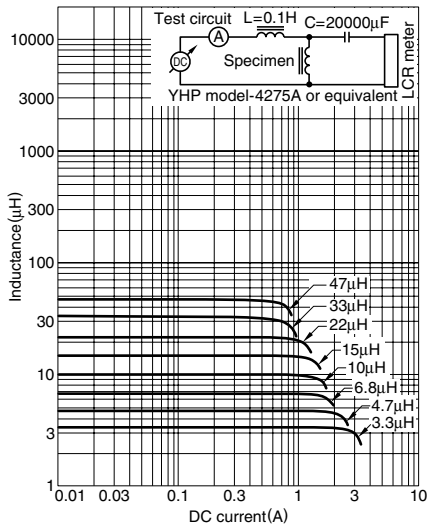
| Inductance<br>( $\mu\text{H}$ ) | Inductance<br>tolerance | Test frequency<br>L (kHz) | DC resistance<br>( $\Omega$ ) $\pm 20\%$ | Rated current<br>(A)*max. | Part No.            |
|---------------------------------|-------------------------|---------------------------|------------------------------------------|---------------------------|---------------------|
| 3.3                             | $\pm 20\%$              | 100                       | 0.023                                    | 1.8                       | SLF7030T-3R3M1R8-PF |
| 4.7                             | $\pm 20\%$              | 100                       | 0.036                                    | 1.6                       | SLF7030T-4R7M1R6-PF |
| 6.8                             | $\pm 20\%$              | 100                       | 0.041                                    | 1.5                       | SLF7030T-6R8M1R5-PF |
| 10                              | $\pm 20\%$              | 100                       | 0.053                                    | 1.3                       | SLF7030T-100M1R3-PF |
| 15                              | $\pm 20\%$              | 100                       | 0.084                                    | 1                         | SLF7030T-150M1R0-PF |
| 22                              | $\pm 20\%$              | 100                       | 0.11                                     | 0.86                      | SLF7030T-220MR86-PF |
| 33                              | $\pm 20\%$              | 100                       | 0.16                                     | 0.65                      | SLF7030T-330MR65-PF |
| 47                              | $\pm 20\%$              | 100                       | 0.24                                     | 0.57                      | SLF7030T-470MR57-PF |
| 68                              | $\pm 20\%$              | 100                       | 0.31                                     | 0.49                      | SLF7030T-680MR49-PF |
| 100                             | $\pm 20\%$              | 100                       | 0.45                                     | 0.35                      | SLF7030T-101MR35-PF |

\* Rated current: Value obtained that the nominal value of inductance has fallen by 10% and the temperature rise specifications.

- 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



## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- ⊖ View [SLF7030T-6R8M1R5-PF](#) on WIN SOURCE
- ⊖ [TDK Corporation](#) Information

## Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management