

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.

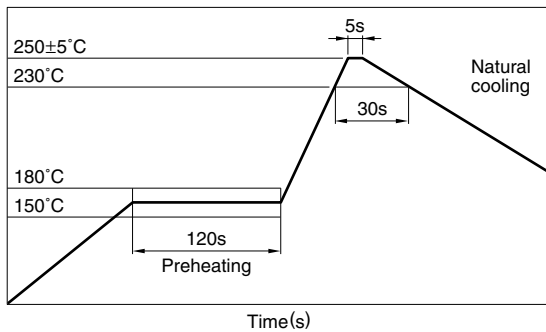
APPLICATIONS

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

SPECIFICATIONS

| | |
|-----------------------------|---|
| Operating temperature range | -20 to +85°C [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 |
|----|------------------------------|

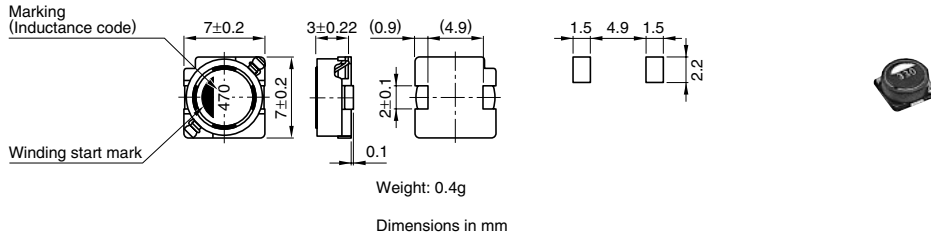
PACKAGING STYLE AND QUANTITIES

| | |
|-----------------|------------------|
| 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 (μH) | Inductance tolerance | Test frequency L (kHz) | DC resistance (Ω)±20% | Rated current (A)*max. | Part No. |
|-----------------|----------------------|------------------------|-----------------------|------------------------|---------------------|
| 3.3 | ±20% | 100 | 0.023 | 1.8 | SLF7030T-3R3M1R8-PF |
| 4.7 | ±20% | 100 | 0.036 | 1.6 | SLF7030T-4R7M1R6-PF |
| 6.8 | ±20% | 100 | 0.041 | 1.5 | SLF7030T-6R8M1R5-PF |
| 10 | ±20% | 100 | 0.053 | 1.3 | SLF7030T-100M1R3-PF |
| 15 | ±20% | 100 | 0.084 | 1 | SLF7030T-150M1R0-PF |
| 22 | ±20% | 100 | 0.11 | 0.86 | SLF7030T-220MR86-PF |
| 33 | ±20% | 100 | 0.16 | 0.65 | SLF7030T-330MR65-PF |
| 47 | ±20% | 100 | 0.24 | 0.57 | SLF7030T-470MR57-PF |
| 68 | ±20% | 100 | 0.31 | 0.49 | SLF7030T-680MR49-PF |
| 100 | ±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

