

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

Conformity to RoHS Directive

SLF Series SLF7028

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.

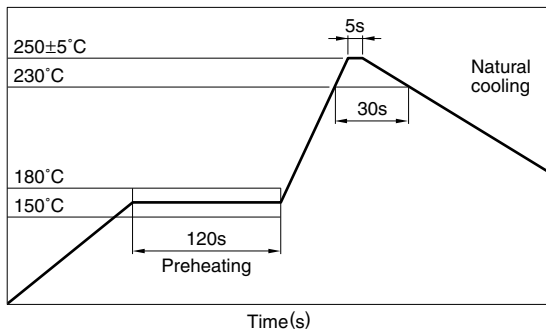
APPLICATIONS

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 | 7028 | T- | 3R3 | M | 1R6 | - | PF |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | |

(1) Series name

(2) Dimensions

| | |
|------|-----------------------|
| 7028 | 7.0×7.0×2.8mm (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

| | |
|-----|-------|
| 1R6 | 1.6A |
| R88 | 0.88A |

(7) Lead-free compatible product

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

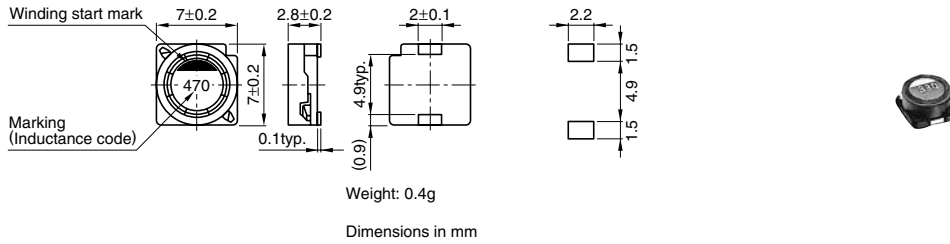
PACKAGING STYLE AND QUANTITIES

| | |
|-----------------|------------------|
| 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 | 0.028 | 1.6 | SLF7028T-3R3M1R6-PF |
| 4.7 | ±20% | 100 | 0.038 | 1.5 | SLF7028T-4R7M1R5-PF |
| 6.8 | ±20% | 100 | 0.059 | 1.3 | SLF7028T-6R8M1R3-PF |
| 10 | ±20% | 100 | 0.083 | 1.1 | SLF7028T-100M1R1-PF |
| 15 | ±20% | 100 | 0.11 | 0.88 | SLF7028T-150MR88-PF |
| 22 | ±20% | 100 | 0.18 | 0.75 | SLF7028T-220MR75-PF |
| 33 | ±20% | 100 | 0.24 | 0.65 | SLF7028T-330MR65-PF |
| 47 | ±20% | 100 | 0.34 | 0.54 | SLF7028T-470MR54-PF |

- 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

