

# Inductors

## For Power Line SMD

## SLF Series SLF7030 Type

### 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.

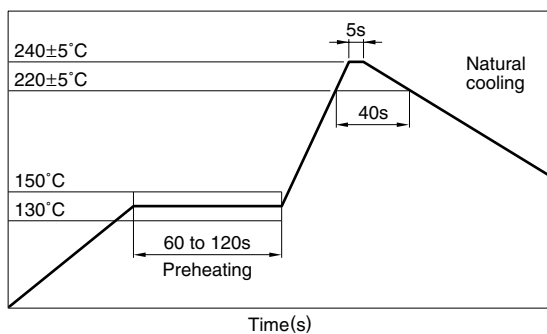
### APPLICATIONS

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	-2
(1)	(2)	(3)	(4)	(5)	(6)	(7)

(1) Series name

(2) Dimensions L×W×T

7030	7.0×7.0×3.0mm
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(3) Packaging style

T	Taping(reel)
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(4) Inductance value

3R3	3.3μH
100	10μH

(5) Inductance tolerance

M	±20%
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(6) Rated current

1R8	1.8A
R86	0.86A

(7) TDK internal code

(Some products may not have this number. See the main body for details.)

### PACKAGING STYLE AND QUANTITIES

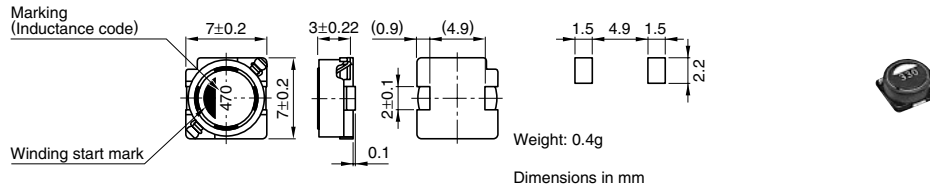
Packaging style	Quantity
Taping	1000 pieces/reel

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SMD

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### SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



### ELECTRICAL CHARACTERISTICS

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

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

- Test equipment L: YHP 4194A IMPEDANCE GAIN/PHASE ANALYZER, or equivalent (Measured at 1kHz/0.5V)  
Rdc: MATSUSHITA, VP-2941A DIGITAL MILLIOHM METER, or equivalent

### TYPICAL ELECTRICAL CHARACTERISTICS

#### INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS

