

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.

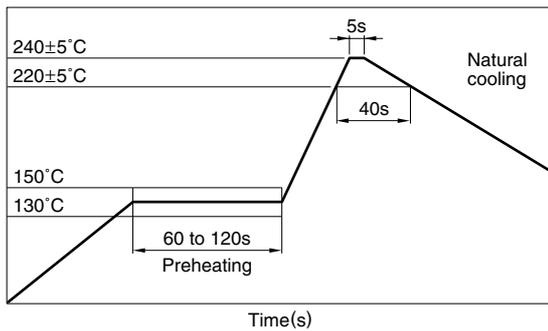
APPLICATIONS

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

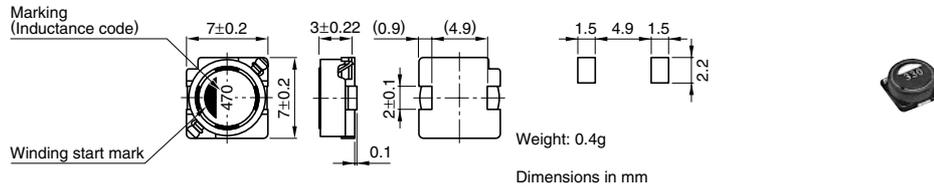
Packaging style	Quantity
Taping	1000 pieces/reel

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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	1	0.023	1.8	SLF7030T-3R3M1R8
4.7	±20	1	0.036	1.6	SLF7030T-4R7M1R6
6.8	±20	1	0.041	1.5	SLF7030T-6R8M1R5
10	±20	1	0.053	1.3	SLF7030T-100M1R3
15	±20	1	0.084	1	SLF7030T-150M1R0
22	±20	1	0.11	0.86	SLF7030T-220MR86
33	±20	1	0.16	0.65	SLF7030T-330MR65
47	±20	1	0.24	0.57	SLF7030T-470MR57
68	±20	1	0.31	0.49	SLF7030T-680MR49
100	±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

