

Inductors

For Power Line

SMD

SLF Series SLF12565 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.

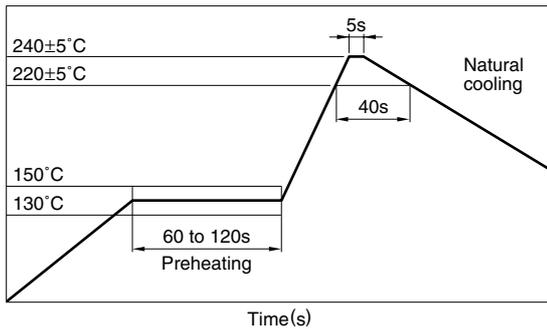
APPLICATIONS

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

SPECIFICATIONS

Operating temperature range	-20 to +105°C [Including self-temperature rise]
Storage temperature range	-40 to +105°C[Unit of products]

RECOMMENDED REFLOW SOLDERING CONDITIONS



PRODUCT IDENTIFICATION

SLF	12565	T-	220	M	3R5	-2
(1)	(2)	(3)	(4)	(5)	(6)	(7)

(1) Series name

(2) Dimensions L×W×T

12565	12.5×12.5×6.5mm
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(3) Packaging style

T	Taping(reel)
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(4) Inductance value

2R0	2μH
100	10μH

(5) Inductance tolerance

M	±20%
N	±30%

(6) Rated current

1R6	1.6A
3R5	3.5A

(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	500 pieces/reel

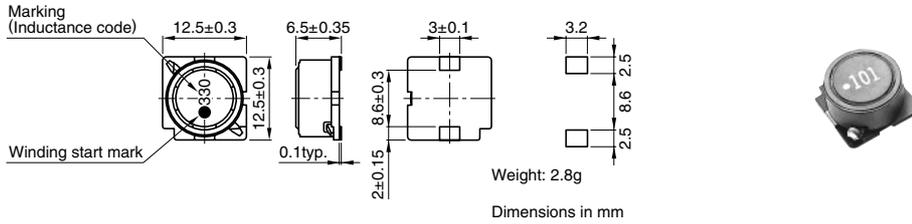
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SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

Inductance (μH)	Inductance tolerance (%)	Test frequency L (kHz)	DC resistance (Ω)±20%	Rated current (A)* max.		Part No.
				Based on inductance change	Based on temperature rise	
2	±30	1	0.0117	10	6.2	SLF12565T-2R0N6R2
4.2	±30	1	0.015	7.3	5.5	SLF12565T-4R2N5R5
7	±30	1	0.0177	5.7	5	SLF12565T-7R0N5R0
10	±20	1	0.0202	5	4.8	SLF12565T-100M4R8
15	±20	1	0.0237	4.2	4.4	SLF12565T-150M4R2
22	±20	1	0.0316	3.5	3.8	SLF12565T-220M3R5
33	±20	1	0.0406	2.8	3.4	SLF12565T-330M2R8
47	±20	1	0.0578	2.4	2.8	SLF12565T-470M2R4
68	±20	1	0.0787	2	2.4	SLF12565T-680M2R0
100	±20	1	0.123	1.6	1.9	SLF12565T-101M1R6
220	±20	1	0.273	1	1.2	SLF12565T-221M1R0

* Rated current: Value obtained when current flows and the temperature has risen to 40°C or when DC current flows and the initial value of inductance has fallen by 10%, whichever is smaller.

- 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

