

Inductors

For Power Line SMD

SLF Series SLF7045 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.

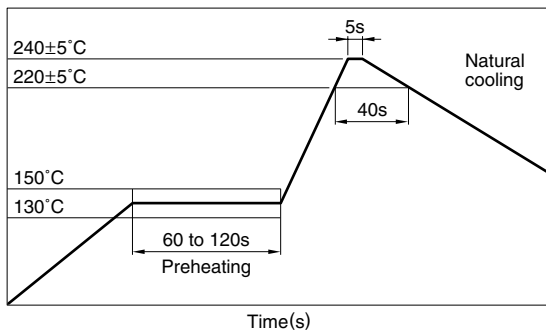
APPLICATIONS

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	7045	T-	220	M	R90	-2
(1)	(2)	(3)	(4)	(5)	(6)	(7)

(1) Series name

(2) Dimensions L×W×T

7045	7.0×7.0×4.5mm
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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

2R5	2.5A
R90	0.90A

(7) TDK internal code

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

PACKAGING STYLE AND QUANTITIES

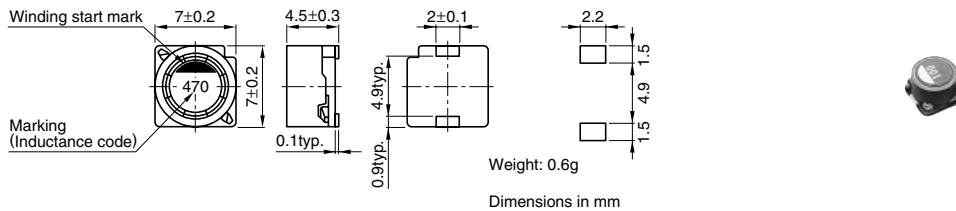
Packaging style	Quantity
Taping	1000 pieces/reel

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For Power Line
SMD

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SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

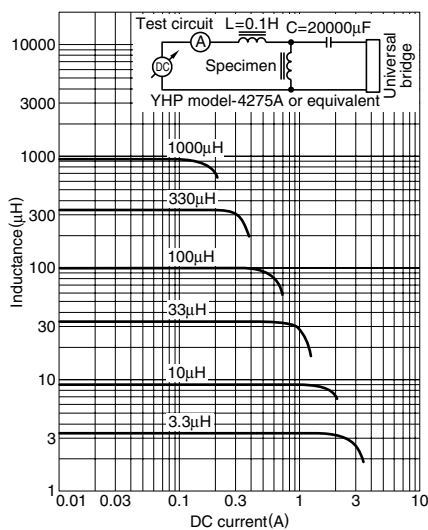
Inductance (μH)	Inductance tolerance (%)	Test frequency L (kHz)	DC resistance (Ω)±20%	Rated current(A)* max.		Part No.
				Based on inductance change	Based on temperature rise	
3.3	±20	1	0.02	2.5	2.3	SLF7045T-3R3M2R5
4.7	±20	1	0.03	2	2.1	SLF7045T-4R7M2R0
6.8	±20	1	0.039	1.7	1.74	SLF7045T-6R8M1R7
10	±20	1	0.036	1.3	1.78	SLF7045T-100M1R3
15	±20	1	0.052	1.1	1.53	SLF7045T-150M1R1
22	±20	1	0.061	0.9	1.34	SLF7045T-220MR90
33	±20	1	0.096	0.82	1.09	SLF7045T-330MR82
47	±20	1	0.125	0.75	0.92	SLF7045T-470MR75
68	±20	1	0.175	0.6	0.77	SLF7045T-680MR60
100	±20	1	0.25	0.5	0.65	SLF7045T-101MR50
150	±20	1	0.34	0.4	0.55	SLF7045T-151MR40
220	±20	1	0.52	0.33	0.45	SLF7045T-221MR33
330	±20	1	0.74	0.25	0.37	SLF7045T-331MR25
470	±20	1	1.05	0.22	0.31	SLF7045T-471MR22
680	±20	1	1.48	0.2	0.27	SLF7045T-681MR20
1000	±20	1	2.28	0.14	0.25	SLF7045T-102MR14

* Rated current: Value obtained when current flows and the temperature has risen to 20°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



• All specifications are subject to change without notice.