

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

Conformity to RoHS Directive

## SLF Series SLF6025

### 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.

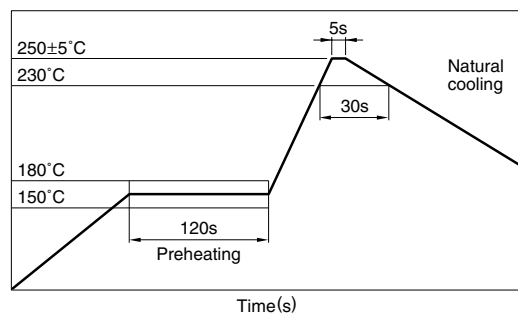
### APPLICATIONS

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	6025	T-	4R7	M	1R5	PF
(1)	(2)	(3)	(4)	(5)	(6)	(7)

(1) Series name

(2) Dimensions

6025 6.0×6.0×2.5mm (L×W×T)

(3) Packaging style

T Taping(reel)

(4) Inductance value

4R7	4.7μH
100	10μH

(5) Inductance tolerance

M ±20%

(6) Rated current

1R5	1.5A
R88	0.88A

(7) Lead-free compatible product

PF Lead-free compatible product

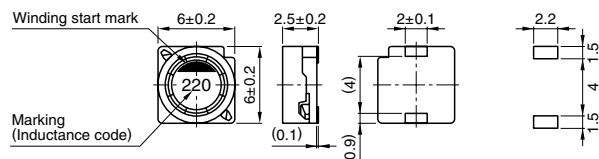
### PACKAGING STYLE AND QUANTITIES

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



Weight: 0.3g typ.

Dimensions in mm

## ELECTRICAL CHARACTERISTICS

Inductance ( $\mu\text{H}$ )	Inductance tolerance	Test frequency L (kHz)	DC resistance ( $\Omega$ ) $\pm 20\%$	Rated current (A)*		Part No.
				Based on inductance change	Based on temperature rise	
4.7	$\pm 20\%$	100	0.0306	1.5max.	1.8typ.	SLF6025T-4R7M1R5-PF
6.8	$\pm 20\%$	100	0.0442	1.3max.	1.5typ.	SLF6025T-6R8M1R3-PF
10	$\pm 20\%$	100	0.0573	1max.	1.3typ.	SLF6025T-100M1R0-PF
15	$\pm 20\%$	100	0.085	0.88max.	1.1typ.	SLF6025T-150MR88-PF
22	$\pm 20\%$	100	0.122	0.73max.	0.94typ.	SLF6025T-220MR73-PF
33	$\pm 20\%$	100	0.18	0.59max.	0.79typ.	SLF6025T-330MR59-PF
47	$\pm 20\%$	100	0.24	0.48max.	0.67typ.	SLF6025T-470MR48-PF
68	$\pm 20\%$	100	0.37	0.42max.	0.54typ.	SLF6025T-680MR42-PF
100	$\pm 20\%$	100	0.5	0.33max.	0.47typ.	SLF6025T-101MR33-PF

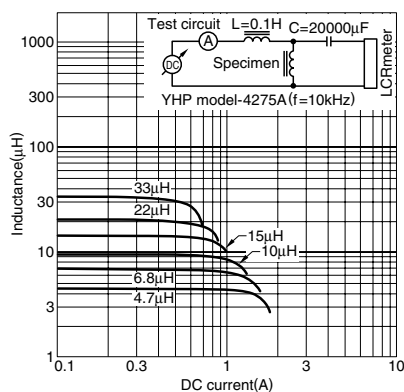
\* Rated current: Value obtained when current flows and the temperature has risen to 25°C or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.

- Test equipmentL: 4194A IMPEDANCE/GAIN-PHASE ANALYZER HP, or equivalent  
Rdc: DIGITAL MILLIOHM METER VP-2941A MATSUSHITA, or equivalent

## TYPICAL ELECTRICAL CHARACTERISTICS

### INDUCTANCE CHANGE vs. DC SUPERPOSITION

### CHARACTERISTICS



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