

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

**Conformity to RoHS Directive** 

### SLF Series SLF7030

#### **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.

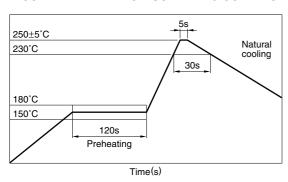
#### **APPLICATIONS**

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	М	R86	- PF
(1)	(2)	(3)	(4)	(5)	(6)	(7)

- (1) Series name
- (2) Dimensions

7030	$7.0\times7.0\times3.0$ mm (L×W×T)

(3) Packaging style

′		_	•	•	
•	Т				Taping(reel)

(4) Inductance value

3R	13	3.3μΗ
10	0	10μΗ

(5) Inductance tolerance

M	±20%	

(6) Rated current

1R8	1.8A	
R86	0.86A	

(7) Lead-free compatible product

PF Lead-free compatible product

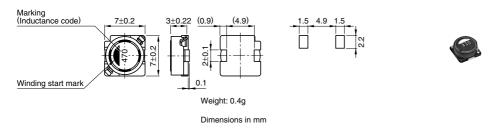
#### **PACKAGING STYLE AND QUANTITIES**

Packaging style	Quantity
Taping	1000 pieces/reel

<sup>•</sup> 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.



#### SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN

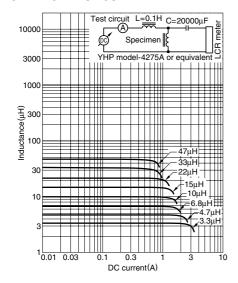


#### **ELECTRICAL CHARACTERISTICS**

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

<sup>\*</sup> Rated current: Value obtained that the nominal value of inductance has fallen by 10% and the temperature rise specifications.

## TYPICAL ELECTRICAL CHARACTERISTICS INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS



<sup>•</sup> Test equipment L: 4194A IMPEDANCE/GAIN-PHASE ANALYZER HP, or equivalent (Measured at 100kHz/0.5V)
Rdc:MATSUSHITA,VP-2941A DIGITAL MILLIOHM METER, or equivalent

<sup>•</sup> All specifications are subject to change without notice.