

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

**Conformity to RoHS Directive** 

## SLF Series SLF7028

#### **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.

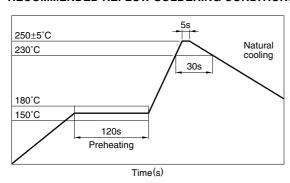
#### **APPLICATIONS**

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

#### **SPECIFICATIONS**

Operating temperature range	–20 to +85°C		
Operating temperature range	[Including self-temperature rise]		
Storage temperature range	-40 to +85°C[Unit of products]		

#### RECOMMENDED REFLOW SOLDERING CONDITIONS



#### PRODUCT IDENTIFICATION

SLF	7028	T-	3R3	М	1R6	- PF
(1)	(2)	(3)	(4)	(5)	(6)	(7)

- (1) Series name
- (2) Dimensions

7028	$7.0\times7.0\times2.8$ mm (L×W×T)

#### (3) Packaging style

<b>T</b>	T	
I	Taping(reel)	
•	.apg(.cc.)	

#### (4) Inductance value

3R3	3.3μH	
100	10μΗ	

#### (5) Inductance tolerance

M	±20%	

#### (6) Rated current

1R6	1.6A	
R88	0.88A	

## (7) Lead-free compatible product

d-free compatible product

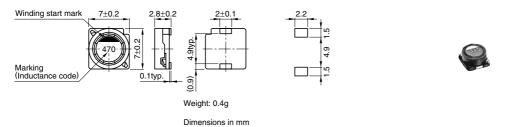
#### **PACKAGING STYLE AND QUANTITIES**

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

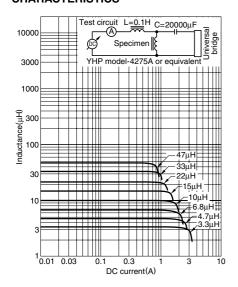


#### **ELECTRICAL CHARACTERISTICS**

Inductance (µH)	Inductance tolerance	Test frequency L (kHz)	DC resistance (Ω)±20%	Rated current (A)max.	Part No.
3.3	±20%	100	0.028	1.6	SLF7028T-3R3M1R6-PF
4.7	±20%	100	0.038	1.5	SLF7028T-4R7M1R5-PF
6.8	±20%	100	0.059	1.3	SLF7028T-6R8M1R3-PF
10	±20%	100	0.083	1.1	SLF7028T-100M1R1-PF
15	±20%	100	0.11	0.88	SLF7028T-150MR88-PF
22	±20%	100	0.18	0.75	SLF7028T-220MR75-PF
33	±20%	100	0.24	0.65	SLF7028T-330MR65-PF
47	±20%	100	0.34	0.54	SLF7028T-470MR54-PF

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

# TYPICAL ELECTRICAL CHARACTERISTICS INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS



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