

Wire Wound SMD Power Inductor

Features

- 1. Magnetic-resin shielded construction reduces buzz noise to ultra-low levels.
- 2. Metallization on ferrite core results in excellent shock resistaNSTe and damage-free durability;
- 3. Closed magnetic circuit design reduces leakage flux and Electro Magnetic InterfereNSTe (EMI);
- 4, 30% higher current rating than conventional inductors of equal size;
- 5. Take up less PCB real estate and save more power.





Applications

- 1. LED Lighting;
- 2. Mobile devices with multifuNSTtion such as adding color TV and camera;
- 3. Flat-screen TVs, blue-ray disc recorders, set top boxes;
- 4. Notebooks, desktop computers, servers, graphic cards;
- 5. Portable gaming devices, personal navigation systems, personal multimedia devices;
- 6. Automotive systems
- 7. Telecomm base stations

Dimensions

Lead Free Part Numbering

SLW 6010 S 4R7 Т (1) **(2)** (3) (4) (5) (6) **(7)**

(1) Series Type

(2) Dimension: LXH

(3) Material Code

Inductance: 2R2=2.2µH;

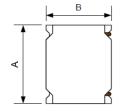
100=10µH; 101=100µH

(5) Inductance Tolerance: M=±20%, N=±30%

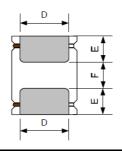
(6) Company Code

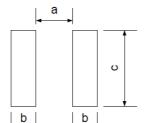
Recommended Land Pattern

(7) Packaging: Tape Carrier Package









Unit:mm

Series	A	В	С	D	E	F	а Тур.	b Typ.	с Тур.
SLW6010S	6.0±0.3	6.0±0.3	1.0Max.	4.9±0.3	1.55±0.3	2.90±0.3	2.8	1.7	5.7

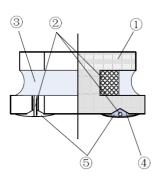
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◆ Electrical Characteristics

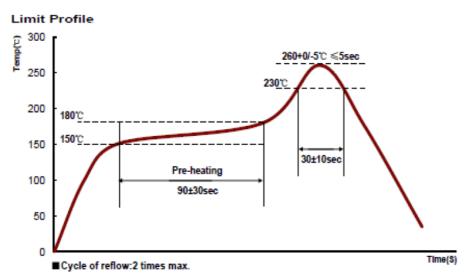
- 1) Operating temperature range (Including self-heating): -40° C ~ +125 $^{\circ}$ C
- 2) Storage temperature range (packaging conditions): -10 °C ~+40 °C and RH 70% (Max.)

Construction and material

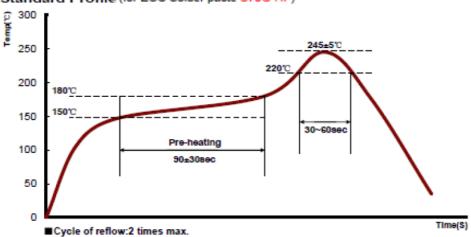


Code	Part Name	Material Name		
1)	Ferrite Core	Ni-Zn Ferrite		
2	Wire	Polyurethane system enameled copper wire		
3	Magnteic Glue	Epoxy resin and magnetic powder		
4		Ag		
	Plating Electrodes	Ni		
		Sn		
(5)	Outer Electrodes	Top surface solder coating Sn 、Ag、Cu		

♦ REFLOW-PROFILE









♦ Specification

Part Number	InductaNSTe @100KHz,1V (µH)	DC ResistaNSTe ±30% (Ω)	Min.Self-resonant FrequeNSTy (MHz)	Saturation Current(A)	Heat Rating Current (A)
	(μπ)	DCR	S.R.F	Isat	Irms
SLW6010S Series					
SLW6010S2R2MST	2.2±20%	0.119	61	2.60	2.00
SLW6010S3R3MST	3.3±20%	0.174	56	2.00	1.70
SLW6010S4R7MST	4.7±20%	0.217	51	1.75	1.45
SLW6010S6R8MST	6.8±20%	0.298	46	1.20	1.22
SLW6010S100MST	10±20%	0.357	44	1.10	1.20
SLW6010S150MST	15±20%	0.570	41	0.90	0.80
SLW6010S220MST	22±20%	0.884	36	0.70	0.60

◆ Note

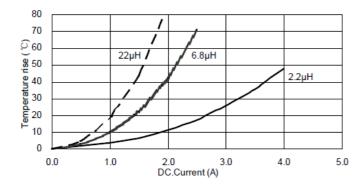
- 1: All test data is refereNSTed to 20°C ambient;
- 2: Rated current: Isat or Irms, whichever is smaller;
- 3: Isat: DC current at which the inductaNSTe drops approximate 30% from its value without current;
- 4: Irms: DC current that causes the temperature rise (△T =40°C) from 20°C ambient.

Standard Packing Quantity: 2000 pcs/reel

♦ TYPICAL ELECTRICAL CHARACTERISTICS

SLW6010S Series

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics

