◆ Features

1、Magnetic-resin shielded construction reduces buzz noise to ultra-low levels;
2、Metallization on ferrite core results in excellent shock resistance and damage-free durability;
3、Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference (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 multifunction 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

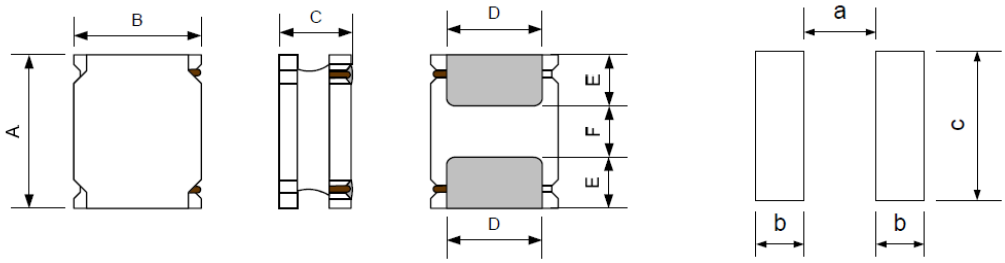
◆ Lead Free Part Numbering

SLW	6028	S	100	M	S	T
(1)	(2)	(3)	(4)	(5)	(6)	(7)

(1) Series Type
(2) Dimension：L X H
(3) Material Code
(4) Inductance：2R2=2.2μH；
100=10μH；101=100μH
(5) Inductance Tolerance：M=±20%, N=±30%
(6) Company Code
(7) Packaging：Tape Carrier Package

◆ Dimensions

Recommended Land Pattern



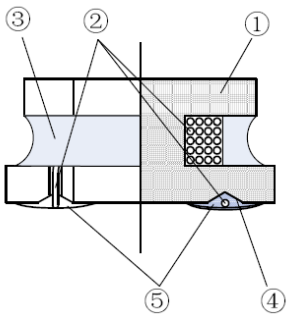
Unit:mm

Series	A	B	C	D	E	F	a Typ.	b Typ.	c Typ.
SLW6028S	6.0±0.3	6.0±0.3	2.8Max.	4.9±0.3	1.55±0.3	2.90±0.3	2.8	1.7	5.7

◆ Electrical Characteristics

1) Operating temperature range（Including self-heating)：-40℃ ~ +125℃
2) Storage temperature range (packaging conditions): -10℃~+40℃ and RH 70% (Max.)

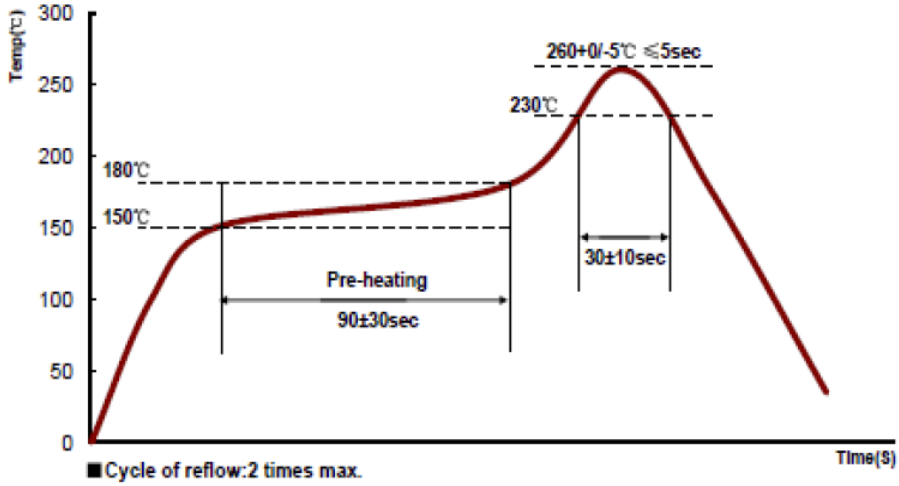
◆ Construction and material



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	Plating Electrodes	Ag
		Ni
		Sn
⑤	Outer Electrodes	Top surface solder coating Sn 、Ag、Cu

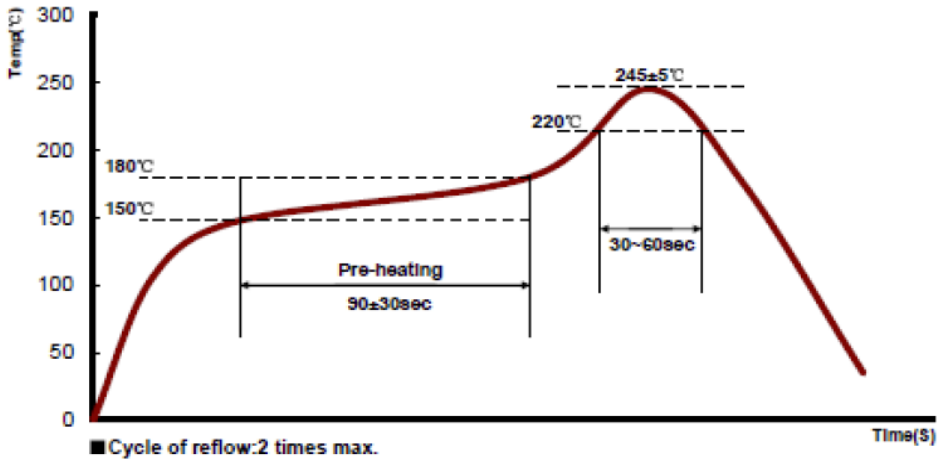
◆ REFLOW-PROFILE

Limit Profile



■Cycle of reflow:2 times max.

Standard Profile (for EOC Solder paste S70G-HF)



■Cycle of reflow:2 times max.

◆ Specification

Part Number	Inductance @100KHz,1V (μH)	DC Resistance ±30% (Ω) DCR	Min.Self-resonant Frequency（MHz） S.R.F	Saturation Current(A) Isat	Heat Rating Current (A) Irms
SLW6028S Series					
SLW6028S1R0NST	1.0±30%	0.010	70	6.00	5.20
SLW6028S1R5NST	1.5±30%	0.013	65	6.00	4.58
SLW6028S2R2MST	2.2±20%	0.015	56	5.10	4.09
SLW6028S3R3MST	3.3±20%	0.025	41 3	.63	3.48
SLW6028S4R7MST	4.7±20%	0.030	35	3.00	3.08
SLW6028S6R8MST	6.8±20%	0.047	27	2.85	2.40
SLW6028S8R2MST	8.2±20%	0.055	24	2.60	2.25
SLW6028S100MST	10±20%	0.072	23	2.04	1.95
SLW6028S120MST	12±20%	0.080	18	1.80	1.85
SLW6028S150MST	15±20%	0.125	18	1.75	1.45
SLW6028S180MST	18±20%	0.120	15	1.52	1.45
SLW6028S220MST	22±20%	0.140	14	1.60	1.40
SLW6028S270MST	27±20%	0.155	13	1.50	1.32
SLW6028S330MST	33±20%	0.185	12	1.35	1.22
SLW6028S390MST	39±20%	0.225	11	1.25	1.10
SLW6028S470MST	47±20%	0.245	9.5	1.15	1.06
SLW6028S620MST	62±20%	0.345	7.7	0.95	0.89
SLW6028S680MST	68±20%	0.360	7.7	0.95	0.86
SLW6028S750MST	75±20%	0.410	7.7	0.90	0.81
SLW6028S820MST	82±20%	0.445	7.7	0.90	0.78
SLW6028S101MST	100±20%	0.500	7.1	0.65	0.70

◆ Note

1：All test data is referenced to 20°C ambient;

2：Rated current: Isat or Irms, whichever is smaller;

3：Isat: DC current at which the inductance drops approximate 30% from its value without current;

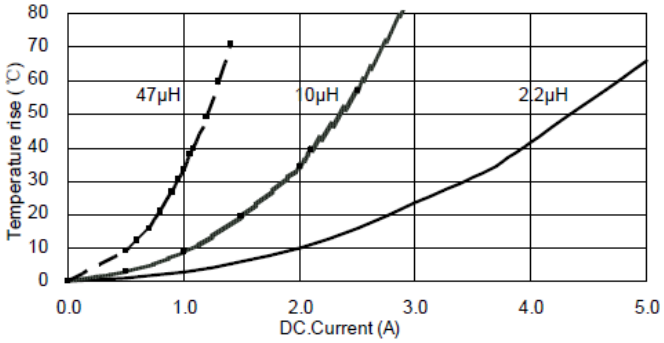
4：Irms: DC current that causes the temperature rise (△T =40°C) from 20°C ambient.

◆ Standard Packing Quantity：2000 pcs/reel

◆ TYPICAL ELECTRICAL CHARACTERISTICS

SLW6028S Series

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics