SLW4020P Series

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 resistance and damage-free durability；
3、Closed magnetic circuit design reduces leakage
4、Small and low profile inductor;
5、Take up less PCB real estate and save more power。

◆ Applications

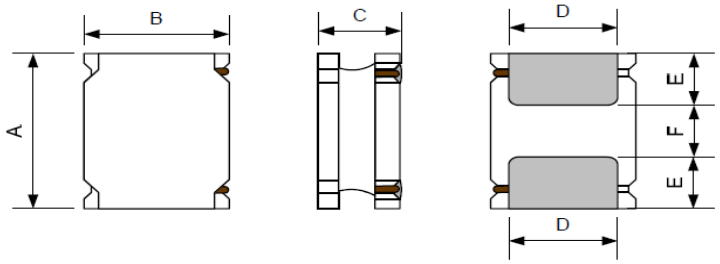
1、Smart phone；
2、Mobile devices with multifunction such as adding color TV and camera；
3、Flat-screen TVs, blue-ray disc recorders, set top boxes；
4、Notebooks, desktop computers, servers, graphic cards；
5、Portable gaming devices, personal navigation systems, personal multimedia devices；
6、Automotive systems;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

◆ Lead Free Part Numbering

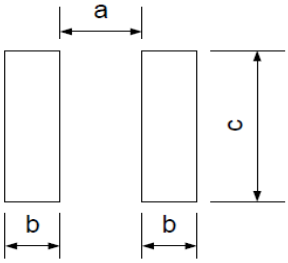
SLW	4020	P	2R2	M	S	T
(1)	(2)	(3)	(4)	(5)	(6)	(7)

(1) Series Type
(2) Dimension：L×W×H(4.0×4.0×1.2mm)
(3) Material Code
(4) Inductance：R47=0.47μH；
2R2=2.2μH；100=10μH
(5) Inductance Tolerance：M=±20%, N=±30%
(6) Company Code
(7) Packaging：Tape Carrier Package

◆ Dimensions



Recommended Land Pattern



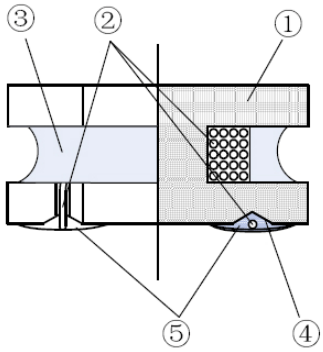
Unit:mm

Series	A	B	C	D	E	F	a Typ.	b Typ.	c Typ.
SLW4020P	4.0±0.2	4.0±0.2	2.0 Max.	3.3±0.2	0.95±0.2	2.10±0.2	1.90	1.10	3.7

◆ Electrical Characteristics

1) Operating and storage temperature range (individual chip without packing): cking): -25℃ ~ +125℃
2) Storage temperature range (packaging conditions): -10℃~+40℃ and RH 70% (Max.)

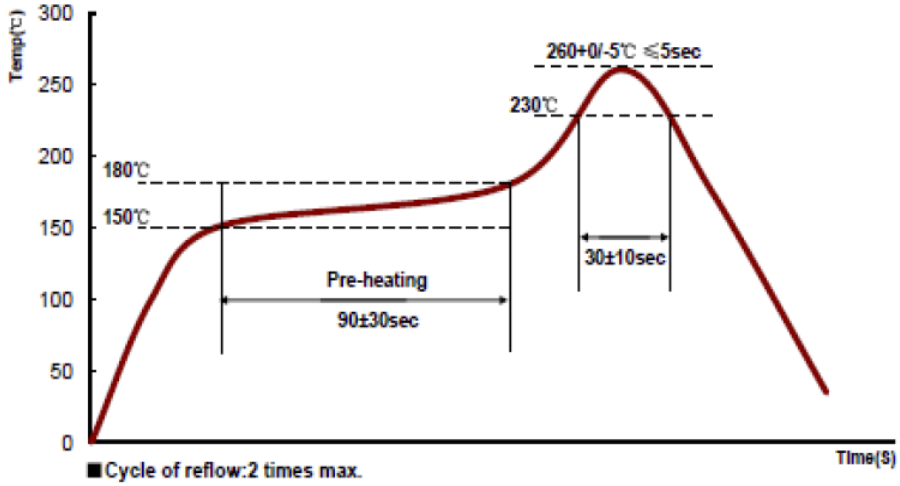
◆ Construction and material



No.	Components	Material
①	Core	Soft magnetic Metal
②	Wire	Polyurethane system enameled copper wire
③	Magnetic Glue	Epoxy resin and magnetic powder
④	substrate	FeNiCu/Ag or Ag/Ni/Sn
⑤	Top Electrodes	Sn alloy
⑥	Marking	Nitrocellulose

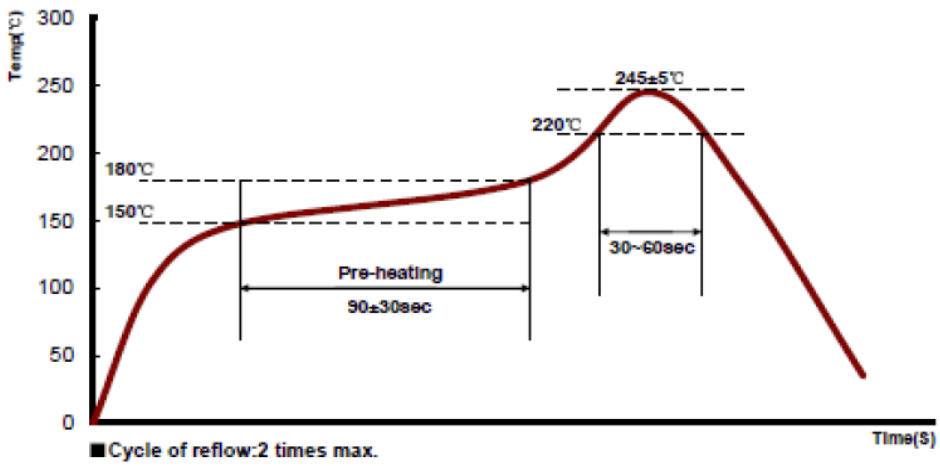
◆ REFLOW-PROFILE

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(mΩ)		Saturation Current Typ. (A)	Heat Rating Current Typ. (A)
		Max.	Typ.		
		DCR		Isat	Irms
SLW4012P Series					
SLW4020P1R0MST	1.00±20%	36	30	7.70	4.50
SLW4020P1R5MST	1.50±20%	46	39	7.00	4.00
SLW4020P2R2MST	2.20±20%	60	50	6.50	3.70
SLW4020P3R3MST	3.30±20%	96	80	5.50	2.50
SLW4020P4R7MST	4.70±20%	132	105	4.90	2.30
SLW4020P6R8MST	6.80±20%	180	150	3.00	1.80
SLW4020P100MST	10.00±20%	228	190	2.80	1.50
SLW4020P220MST	22.00±20%	576	480	2.00	1.10

◆ **Note**

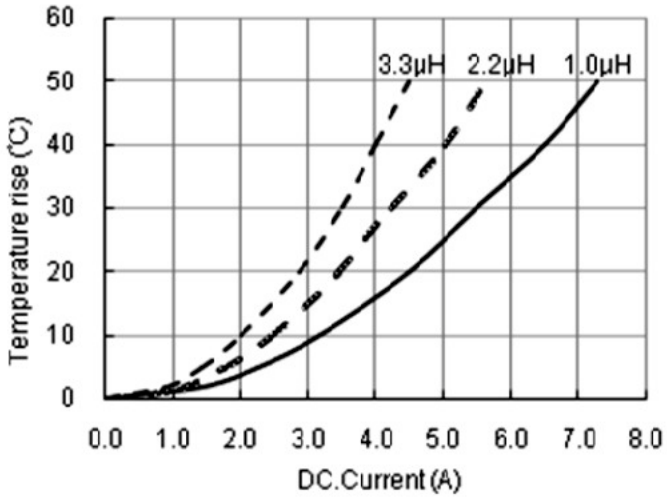
1：All test data is referenced to 20°C ambient;
2：Rated current: Isat or Irms, whichever is smaller;
3：Isat: DC current at which the inductance drops approximate 30% from its value without current;
4：Irms: DC current that causes the temperature rise (△T =40°C) from 20°C ambient.

◆ Standard Packing Quantity：3000 pcs/reel

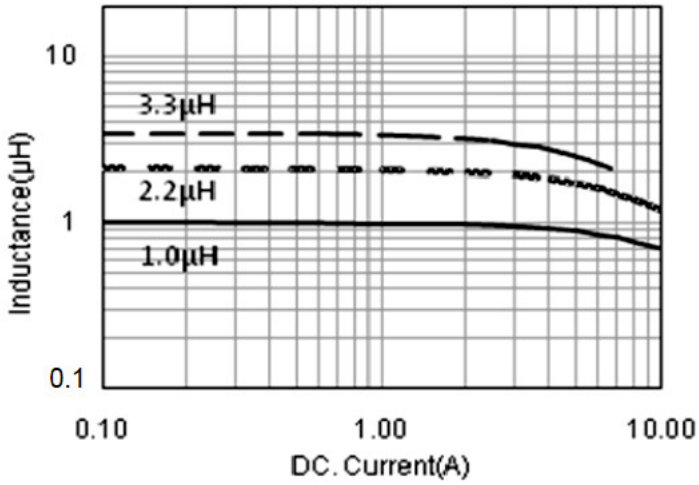
◆ TYPICAL ELECTRICAL CHARACTERISTICS

CMLW4020P Series

Temperature vs.DC Current Characteristics



Inductance vs.DC Current Characteristics



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