



深圳振华富电子有限公司

SHENZHEN ZHENHUA FU ELECTRONICS CO., LTD

规格承认书

SPECIFICATION FOR APPROVAL

客户名称

CUSTOMER NAME:

产品型号:

DESCRIPTION:

SHC 0402 Series Power Inductors

客户料号

CUSTOMER PART NO.:

振华富料号

Z. H. F. PART NO.:

拟制 PAEPARED	审核 CHECKED	批准 APPROVED
日期 DATE: 年 月 日		

客户承认 CUSTOMER APPROVE
日期 DATE: 年 月 日

地址: 深圳市龙华区龙华办事处和平东路振华工业园 4F

ADD: 4F,Zhenhua Production Center,Heping Road, Longhua District, Shenzhen

Tel: 0755-28159282 28159369 Fax: 0755-28159885 Zip: 518109 E-mail: zhf_sales@126.com



1、外型尺寸 DIMENSIONS:

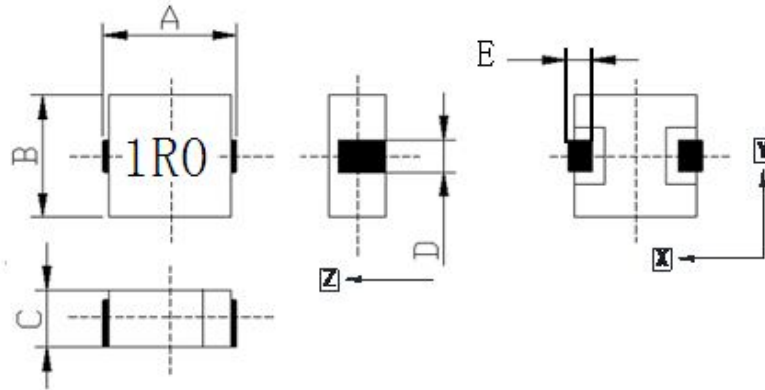


图 1 外形结构

表 1 外形尺寸

单位为 mm

型号规格	<i>A</i>	<i>B</i>	<i>C_{Max}</i>	<i>D_{Ref}</i>	<i>E_{Ref}</i>
SHC0402	4.6±0.30	4.0±0.3	2.0	2.0	0.8

2、规格编码 SPECIFICATION NO:

SHC 0402 – 1R0 M (f)

① ② ③ ④ ⑤

① 产品类型代号 Product symbol:

② 外形尺寸 Dimmensions:

③ 电感量 Inductance: R47: 0.47μH, 1R0: 1.0μH , 680: 68μH

④ 允许偏差 Tolerance: M=±20%, N=±30%

⑤ 表示无铅产品 Leadfree Products:

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3、电气特性 ELECTRICAL CHARACTERISTIC:

型号规格	电感量 μH	L 值 测试条件	直流电阻 DCR max $\text{m}\Omega$	饱和电流 I_{sat} A	温升电流 I_{rms} A
SHC0402-1R0M	1.0	100KHz/1V	27	7.0	4.5
SHC0402-1R5M	1.5	100KHz/1V	48	6.0	4.0
SHC0402-2R2M	2.2	100KHz/1V	58	5.0	3.0
SHC0402-3R3M	3.3	100KHz/1V	87.0	4.0	2.5
SHC0402-4R7M	4.7	100KHz/1V	120.0	3.0	2.2
SHC0402-6R8M	6.8	100KHz/1V	190.0	2.5	1.5
SHC0402-100M	10.0	100KHz/1V	250.0	1.8	1.2

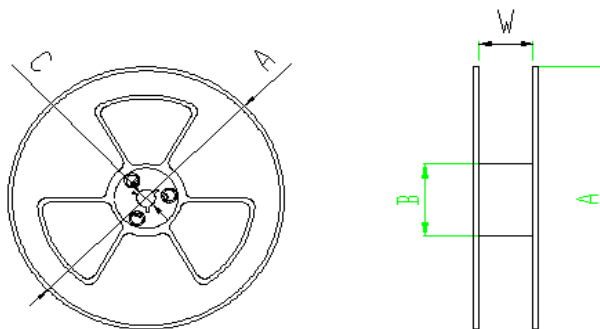
注 1: 饱和电流 I_{sat} 指施加电流时比静态 (未施加电流) 电感量下降 30% 的直流电流值;
注 2: 温升电流 I_{rms} 指在 20℃ 环境下, 施加直流电流引起温度升高 ($\Delta T=40^\circ\text{C}$) 时的直流电流值。

4、包装方式 PACKAGING

4-1. 每卷轴包装数量 3000PCS/R (开始与结尾留空 30~40cm 不装 COIL), 贴上正确的标签, 然后放入一塑料袋 (胶袋尺寸: 360×460mm) 内, 附一包干燥剂, 封口, 卷轴用及载带尺寸. 如图(一)

图(一)

4-1. PACKING QUANTITY PER REEL: 3000PCS/R (WITH THE BLANK AT THE END OF 30~40 NOT LOADED COIL), AFFIX THE CORRECT LABEL THEN PLASTIC BAG (PLASTIC BAG SIZE : 306×460mm), THE ATTACHED A PACKET OF DESICCANT, SEALED AND CONTAINED WITH SCROLL ZONE SIZE ,
FIGURE, (A)



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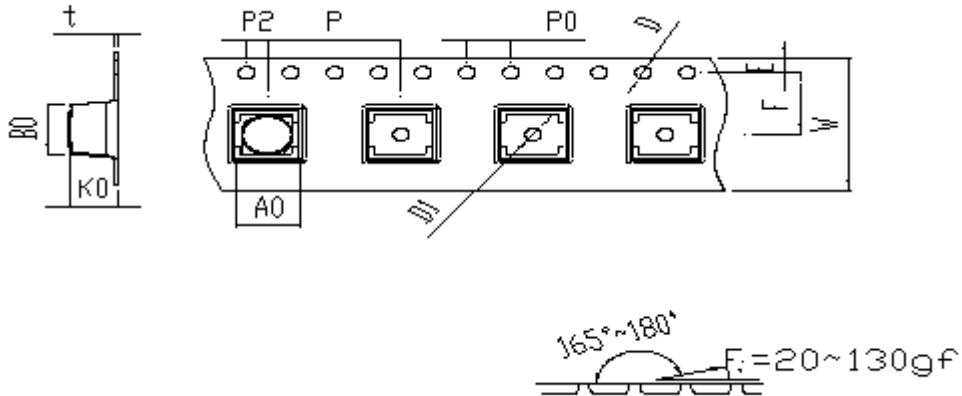


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卷轮尺寸一般公差 $\pm 0.5\text{mm}$ GENERAL SIZE TOLERANCE SCROLL $\pm 0.5\text{mm}$

A	B	C	W
$\Phi 330$	$\Phi 100$	$\Phi 13.5$	24.5mm

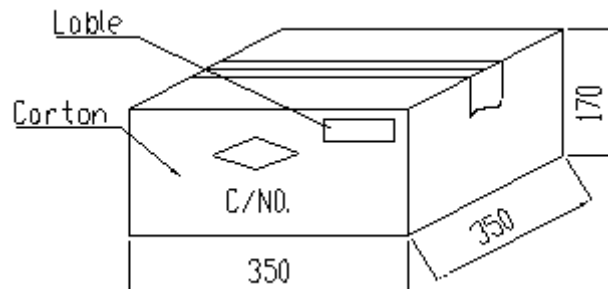


4-2. 每啤盒装 9000PCS(3 卷).(啤盒尺寸:338×338×78mm)

4-2. BEER PER BOX 9000PCS(3 VOLUMES)(BEER BOX SIZE:338×338×78mm)

4-3. 每箱装 18000PCS(2 盒),封口,贴上标签,纸箱形状尺寸.如图(二).

4-3. EACH LOADED 18000PCS (2 BOXES). SEAL. LABEL. CARTON SHAPES AND SIZES, IN FIGURE(B)



图(二)FIGURE(B)

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5、可靠性测试 Reliability Test

TEST ITEM	REQUIREMENT	TEST CONDITION
Withstanding voltage test	After test, inductors shall have no evidence of electrical and mechanical damage.	DC voltage of 100v and current of 1mA applied between inductor's terminal and core for 3 secs.
Resistance to soldering heat	1. Inductor shall have no evidence of electrical and mechanical damage. 2. Inductance shall not change more than $\pm 20\%$.	a. Temp: $260 \pm 5^\circ\text{C}$ b. Time: 10 ± 1.0 secs
Solderability test	The terminal shall be at least 95% covered with solder.	After fluxing, the terminal shall be dipped in a melted solder bath at $245 \pm 5^\circ\text{C}$ for 4 ± 1.0 secs.
High temperature & high humidity test	The anti-erosion quality of the surface and the specimen's inductance shall not change from the initial value within $\pm 20\%$	a. Test condition 1)Temp.: 85°C , R.H.:85% 2)Time: 144 ± 2 hours b. Measurement methods: The experimental component should be put at normal condition for 2 hours then to measure again after test
Salt spray test		a. Test condition 1)Temp.: $35 \pm 2^\circ\text{C}$ 2)Time: 48 ± 2 hours 3)Salt solution PH:6.5~7.2 b. Measurement methods: The experimental component should be put at normal condition for 2 hours then to measure again after test
Vibration test	1. Inductance shall be within $\pm 20\%$ of the initial value. 2. Appearance: no damage	a. Frequency: 10 to 55Hz b. Amplitude: 1.5mm c. Direction and time: X, Y and Z directions for 2 hours each.

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TEST ITEM	REQUIREMENT	TEST CONDITION
Free fall test	No mechanical damage shall be noticed.	Drop 5 times on a concrete floor from 1m the height
Temperature Cycling test	1. Inductance shall be within $\pm 20\%$ of the initial value 2. Appearance: No damage	a. Test condition 1) Temp.: -40°C , time: 30 ± 3 min 2) Temp.: $+125^{\circ}\text{C}$, time: 30 ± 3 min 3) Cycles times: 10 cycles b. Measurement methods: The experimental component should be put at normal condition for 2 hours then to measure again after test
High Temperature resistance test		a. Test condition 1) Applied rated current 2) Temp.: $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 3) Test time: $1000 + 24/-0$ H b. Measurement methods: The experimental component should be put at normal condition for 24 hours then to measure again after test.
Low temperature resistance test		a. Test condition 1) Temp.: $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 2) Test time: $1000 + 24/-0$ H b. Measurement methods: The experimental component should be put at normal condition for 24 hours then to measure again after test.

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