# 零件承认书



SPECIFICATION FOR APPROVAL

各尸名称:	0110		

规格描述: ZEHJNR252010 合金大电流磁胶电感系列规格书

日 期: 2024/10/10

增益签核:

制订	审核	核准
夏琳	陈雨	李万

客户签核:

工程	审核	核准



东莞市增益实业有限公司

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物料类型:	<b>合金磁胶</b> 电感
日期:	2024/10/10
版 本:	A
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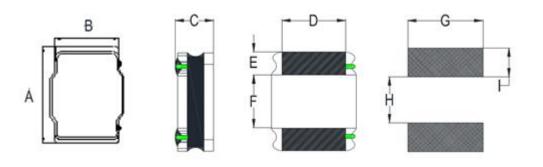
## 修改履历表

#### **Modify Resume**

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修改日期	修改明细	修改后版本号
Date modified	Modify Details	Version No.
2021-07-27	文件新制订 File formulation	A
2024-04-23	系列特性更新。	A1

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#### 1、外形尺寸 Dimension:



Α	2.5±0.2
В	2.2±0.2
С	1.05Max
D	1.65Ref
Е	0.80Ref
F	0.90Ref
G	2.00Ref
Н	0.85Ref

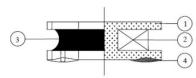
0.80Ref

单位Unit: mm

2、产品品名构成 Product Spec. Model

ZEHJNR 252010 S -1R0 M T 1 2 3 4 5 6

- 1: 系列名称Series name
- 2: 产品尺寸Product dimensions (AxBxC)
- 3: S:S Type
- 4: 电感值Inductance Value (1R0:1.0uH; 100: 10uH; 101: 100uH)
- 5:电感公差Inductance Tolerance (K:10%; M:20%; N:30%)
- 6:包装Package T:磁带/卷轴Tape/Reel
- 3、结构Structure



#### 4、材料清单MATERIAL LIST

NO.	PARTS	MATERIAL	UL FILE NO.	TEMP. CLASS
1	CORE	ALLOY CORE OR EQUIVALENT	NA	NA
2	WIRE	POLYURETHANE ENAMELLED COPPER WIRE OR EQUIVALENT	E258243	180℃
3	ADHESIVE	EPOXY RESIN OR EQUIVALENT	NA	NA
4	SOLDER	Sn99.3-Cu0.7 OR EQUIVALENT	NA	NA

<sup>\*</sup>NA:NOT APPLICABLE.

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## 5、电性能参数表 Electrical Characteristics List

规格型号 Part NO.	电感量 Tolerance(µH)	测试频率 Test Freq. (MHz/v)	直流电阻 DCR Max (mΩ)	饱和电流 Isat (A)	温升电流 Irms (A)
ZEHJNR252010S-R24MT	0.24	1/1	26	7.00	4.50
ZEHJNR252010S-R33MT	0.33	1/1	35	5.50	4.00
ZEHJNR252010S-R47MT	0.47	1/1	45	5.20	3.60
ZEHJNR252010S-R56MT	0.56	1/1	48	5.00	3.50
ZEHJNR252010S-R68MT	0.68	1/1	59	3.60	3.20
ZEHJNR252010S-1R0MT	1.0	1/1	76	3.50	2.60
ZEHJNR252010S-1R5MT	1.5	1/1	106	3.00	2.30
ZEHJNR252010S-2R2MT	2.2	1/1	155	2.20	1.80
ZEHJNR252010S-3R3MT	3.3	1/1	235	1.80	1.50
ZEHJNR252010S-4R7MT	4.7	1/1	276	1.50	1.20
ZEHJNR252010S-6R8MT	6.8	1/1	430	1.15	1.00
ZEHJNR252010S-100MT	10	1/1	520	1.00	0.85

※公差Tolerance: N:±30%、M:±20%、K:±10%.

※工作温度Operating temperature rang: -40  $^{\circ}$  to +125 $^{\circ}$  (Including Self-heating)

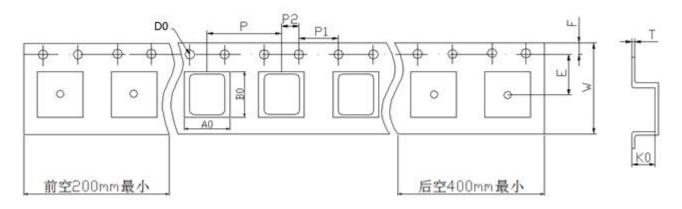
※储存温度Storage termperature rang: -40  $^{\circ}$  to +125 $^{\circ}$ 

额定电流: 电感量比初始值35%Max或电感器表面温度上升 $\le$  40 $^{\circ}$ C的电流值,以较小者为准(参考周围环境温度 25 $^{\circ}$ C)。 The rated DC current is that which cause at 35%Max inductance reduction from the initial value or inductor surface temperature to rise by  $\le$  40 $^{\circ}$ C, whichever is smaller ( Reference ambient temperature 25 $^{\circ}$ C)。

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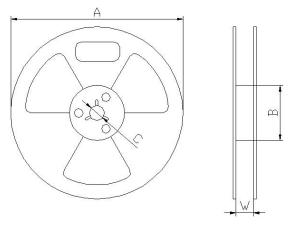
# 6、产品包装 Packaging

## 1) 载带包装示意图 Tape packing diagram



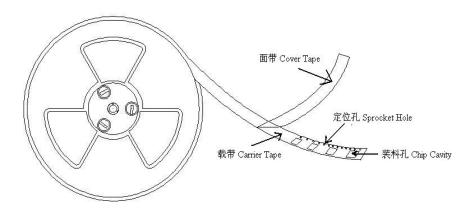
ITEM	W	A0	В0	K0	P	Е	F	D0	P1	P2	Т
DIM	8.00	2.35	2.65	1.20	4.00	3.50	1.75	1.50	4.00	2.00	0.25
TOLE	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1	±0.1	±0.1	±0.05

## 2)卷盘包装示意图 Tape packing diagram



А	180±0.5
В	100±0.5
С	13.5±0.5
W	8.5±0.5

## 3) 卷盘包装示意图 Tape packing diagram

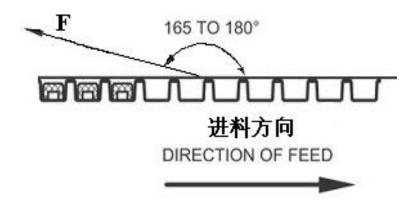


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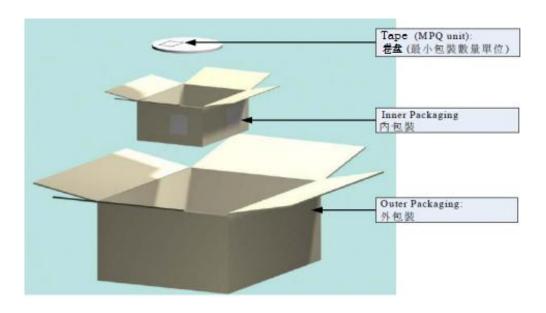
## 4)剥离强度要求Peeling required

①F 力大小: 20~100g;

②面带剥离角度: 165°~180°。



## 5) 包装数量 Packing quantity



项目 (Project)	数量(PCS)	尺寸规格(Size:mm)
盘(Reel)	2000	7"
内盒 (Inner box)	20K	185mm*185mm*120mm
外箱 (Out box)	120K	395mm*385mm*205mm

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7.RELIABIL	ITY TEST METHOD								
MECHANIC	AL								
TESTITEM	SPECIFICATION	TEST DETAILS							
Substrate bend	ubstrate bendir △L/Lo≦±5% The sample shall be soldered onto the printed circuit board								
		in figure	1 and a load applied ι	unitil the figure in t	he arrow				
	There shall be	hall be direction is made approximately 3mm.(keep time 30 seconds)							
	no mechanical	PCB din	nension shall the page	e 7/9					
	damage or elec-		F(Pr	ressurization)					
	trical damege.			Л					
	R5 45±2 45±2								
PRESSURE ROD figure-1									
Vibration	△L/Lo≦±5%	The sam	ple shall be soldered	onto the printed c	ircuit board				
		and whe	en a vibration having a	n amplitude of 1.5	2mm				
	There shall be	and a fr	equency of from 10 to	55Hz/1 minute re	peated should				
	no mechanical	be appli	ed to the 3 directions	(X,Y,Z) for 2 hours	s each.				
	damage.	(A total	of 6 hours)						
Solderability	New solder	Flux (ros	sin, isopropyl alcohol{	JIS-K-1522}) shall	be coated				
,	More than 90%	over the	whole of the sample b	pefore hard, the sa	imple shall				
		then be	preheated for about 2	minutes in a temp	perature of				
		130~15	$60^\circ\!\!\!\subset$ and after it has b	een immersed to a	a depth 0.5mm				
		below fo	r 3±0.2 seconds fully	in molten solder N	1705 with				
		a tempe	rature of 245±2 $^\circ\mathbb{C}$ .						
		More tha	an 90% of the electroc	le sections shall b	e couered				
		with new	solder smoothly whe	n the sample is ta	aken out of				
		the sold	er bath.						

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MECHANICAL		V CISION I VUINOCI		page			
TESTITEM	<del></del>	SDECIE	ICATION				
	SPECIFICATION						
Resistance to	There shall be Temperature profile of reflow soldering						
Soldering heat	no damage or	Soldering (Peak temperature 260±3°C 10 sec  Pre-heating  Pre-heating  Slow cooling (Stored at root temperature)  The specimen shall be passed through the reflow oven with the condition shown in the above profile for 1 time.  The specimen shall be stored at standard atmospheric conditions for 1 hour, after which the measurement shall be made.					
(reflow soldering)	problems.						
		1					
ELECTRICAL							
ELECTRICAL TEST ITEM	SPECIFICATION		TEST DETA	ILS			
TESTITEM	There shall be no other	DC 100V voltage shall b	SERVICE PROPERTY IN THE TAXABLE IN T	400-400-400-400-400-400-400-400-400-400			
TEST ITEM Insulation	STREET TO DESCRIPTION CONSUMERS AND STREET STREET	DC 100V voltage shall b	e applied across	400-400-400-4			
TEST ITEM Insulation	There shall be no other		e applied across	this sample of top			
TEST ITEM Insulation resistance	There shall be no other	surface and the termina	e applied across l. e shall be more t	this sample of top han 1 × 10 <sup>8</sup> Ω.	тор		
TEST ITEM Insulation resistance Dielectric	There shall be no other damage or problems.	surface and the termina The insulation resistanc	e applied across  I. e shall be more t be applied for 1 m	this sample of top han 1 × 10 <sup>8</sup> Ω.	ор		
TEST ITEM Insulation resistance Dielectric withstand	There shall be no other damage or problems.  There shall be	surface and the termina The insulation resistanc AC 100V voltage shall b	e applied across  I. e shall be more t be applied for 1 m	this sample of top han 1 × 10 <sup>8</sup> Ω.	ор		
TEST ITEM Insulation resistance Dielectric withstand	There shall be no other damage or problems.  There shall be no other damage or problems.	surface and the termina The insulation resistanc AC 100V voltage shall b	e applied across  I. e shall be more t be applied for 1 m	this sample of top han 1 × 10 <sup>8</sup> Ω.	юр		
ELECTRICAL TEST ITEM Insulation resistance  Dielectric withstand voltage  Temperature	There shall be no other damage or problems.  There shall be no other no other damage or	surface and the termina The insulation resistanc AC 100V voltage shall b	e applied across  I. e shall be more t e applied for 1 m I of this sample	this sample of top han 1 × 10 <sup>8</sup> Ω.			

calculated based on the value applicable in a normal

temperature and narmal humidity shall be  $\triangle L/L$  20°C  $\leq \pm$  10%.

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					page				
ENVIROMENT CHARACTERISTICS									
TEST ITEM	SPECIFICATION								
High temperature	△L/Lo≦±5%	The samp	The sample shall be left for 500hours in an atmospere with						
storage		a tempera	a temperature of 125±2℃ and a normal humidity.						
	There shall be	Upon con	npletic	on of the measurement	shall be made after the				
	no mechanical	sample h	as be	en left in a normal temp	erature and normal				
	damage.	humidity	umidity for 1 hour.						
Low temperature	△L/Lo≦±5%	The samp	ole sha	all be left for 500 hours	in an atmosphere with				
storage		a tempera	ature o	of -40±3℃.					
	There shall be	Upon con	npletic	on of the test, the meas	urement shall be made				
	no mechanical	after the	sampl	e has been left in a nor	mal temperature and				
	damage.	normal hu	umidity	/ for 1 hour.					
Change of	△L/Lo≦±5%	The samp	ole sha	all be subject to 5 conti	nuos cycles, such as shown				
temperature		in the tab	le 2 b	elow and then it shall be	e subjected to standard				
	There shall be	stmosphe	eric co	nditions for 1 hour, afte	r which measurement				
	no other dama-	shall be r	shall be made.						
	ge of problems								
				t	table 2				
				Temperature	Duration				
			1	-40 <b>±3</b> ℃	10 min.				
				(Themostat No.1)					
			2	Standard	5 sec. or less				
				atmospheric	No. 1→No. 2				
			3	125±2℃	30 min.				
				(Themostat No.2)					
			4	Standard	5 sec. or less				
				atmospheric	No.2→No.1				
Moisuture storage	△L/Lo≦±5%	The samp	ole sha	all be left for 500 hours	in a temperature of				
		40±2°C a	nd a h	umidity(RH) of 90 $\sim$ 959	%.				
	There shall be	Upon completion of the test, the measurement shall be made							
	no mechanical	after the sample has been left in a normal temperature and							
	damage.	normal humidity more than 1 hour.							
Test conditions :									

#### Test conditions:

The sample shall be reflow soldered onto the printed circuit board in every test.

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#### 8、注意事项 Note

①本承认书保证我司产品作为一个单体时的质量情况。当我司产品被安装到贵司产品上时,请保证 贵司的产品已根据贵司的规范进行了有效评估和确认。

This product specification guarantees the quality of our product as a single unit. Please make sure that your product is evaluated and confirmed against your specifications when our product is mounted to your product.

②如果贵司对我司产品的使用已超过了本承认书所界定的产品功能,那么对于由此引发的失效, 我司将不予保证。

We cannot warrant against failure caused by any use of our product that deviates from the intended use as described in this product specification.

- ③为了保持终端电极的焊接性,并使包装材料保持良好状态,必须控制储存区的温度和湿度。 To maintain the solderabilty of terminal electrodes and to keep the packing material in good condition, temperature and humidity in the storage area should be controlled.
  - ※建议的条件: -10~+40℃, 30~70%RH。

Recommended conditions:  $-10 \sim +40 \,^{\circ}\text{C}$ ,  $30 \sim 70 \,^{\circ}\text{RH}$ .

※储存超过六个月的,应在实际使用前进行焊接检验。
In case of storage over 6 months, soldrability shall be checked before actual usage.

※即使在理想的储存条件下,产品的可焊性也随着时间的推移而降低。因此,产品应从交货时算起, 建议8个月之内使用完。

Even under ideal storage conditions, the weldability of the product decreases over time. therefore, the product should be From the time of delivery, it is recommended that it be used within 8 months.

④本承认书在客户收到30天之内,必须签章返回,逾期视为默认。

The Specification Approval should be sent back to the supplier with customer's chop on it within 30 days after receiving it, or we will take it as approved by customer's automatically.

⑤如有特殊规格要求,请事前联络我司技术部人员。

In case of special specifications please contact our technical department prior staff.