SPECIFICATION SHEET

規格圖面

提出年月日/Date of application
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Approved By	Checked By	Drawn By
核 准	审查	制 作
李庆辉	苏惠峰	劳水卷

深圳市柯爱亚电子有限公司

Shenzhen Ceaiya Electronics Co., Ltd.

地址 1: 深圳市龙华区观湖街道鹭湖社区观盛二路 5 号捷顺科技中心 B706

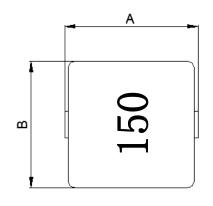
地址 2: 东莞清溪镇青滨东路 105 号力合紫荆智能制造中心 10 栋

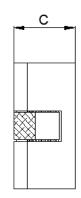
Http://www.ceaiya.com **Tel:** 0769-89333213

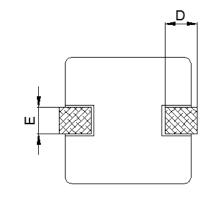
[Version of Changed Record]

Rev.	Effective Date	Changed Contents	Change Reasons	Approved By
A 0	2024.11.19	New release	1	Li qing hui

1.DIMENSIONS (UNIT:mm)







Α	В	С	D	E
19.3Max	18.2±0.5	8.9±0.4	4.5±0.5	4.0±0.3

2. CONNECTION (BOTTOM)



3. CHARACTERISTICS

Item	Specifications	Measuring	Measuring
item	Specifications	Conditions	Instrument
Inductance	15µH ± 20%	100KHz/0.5V	HIOKI3532-50
D.C.R	8.2mΩ Typ.(9.5mΩMax.)	25℃	HIOKI 3540
Isat	19.0A (△L/L0=30%Typ.)	100KHz/0.5V	Microtest 6377&6220
Irms	14.0A(△T=40°CTyp.)	25 ℃	Microtest 6377&6220

- $\mbox{\%}$ All data is tested based on 25 $\mbox{\%}$ ambient temperature.
- a. Inductance measure condition at 100kHz, 0.5V.
- b. Isat: the actual value of DC current when the inductance decrease 30% of its initial value.
- c. Irms: the actual value of DC current when the temperature rise is $\Delta T = 40^{\circ} \text{C} (\text{Ta} = 25^{\circ} \text{C})$.
- d. Special remind: Circuit design, component placement, PCB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.
- e.Operating temperature range (individual chip without packing): -40 °C ~ +125 °C (Including Self-heating)
- f. Storage temperature range (packaging conditions): -10 °C ~ +40 °C and RH 70% (Max.).

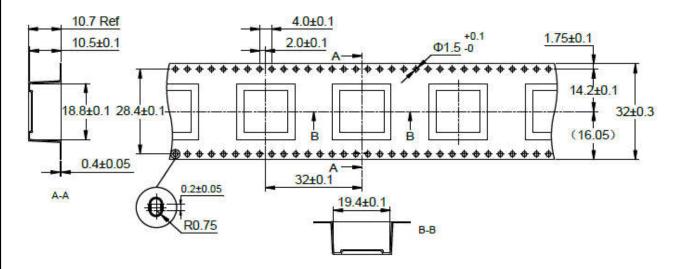
4. Reliability Test

defects shall occur. Substitute Strength Strengt	Items	Requirements	Test Methods and Remarks
Vibration ② Inductance change: Within ±10% board shown as the following figure) usin eutectic solder ③ The chip shall be subjected to a simpl harmonic motion having total amplitude of 1.5mm, the frequency range from 10 to 55Hz and return to 10Hz shall be traversed in approximately 1 minute. This motion shall be applied for a period of 2 hours in each mutually perpendicular directions (total of hours). Solderability Solderability Solderability O No visible mechanical damage. Resistance to Soldering Heat ① No visible mechanical damage. ② Inductance change: Within ±10% Soldering Heat ① No visible mechanical damage. ② Inductance change: Within ±10% Soldering Heat ① No visible mechanical damage. ② Inductance change: Within ±10% ③ Inductance change: Within ±10% ⑤ Inductance change: Within ±10% ⑤ Inductance change: Within ±10% ⑤ Inductance change: Within ±10% ⑥ Inductance		defects shall occur.	epoxy board shown in Fing.4.1-1) using eutectic solder. Then apply a force in the direction of the arrow. ② 10N force.
Resistance to Soldering Heat One wisible mechanical damage. Peak 260°C Image 25°C Imag	Vibration		board shown as the following figure) using eutectic solder 2 The chip shall be subjected to a simple harmonic motion having total amplitude of 1.5mm, the frequency being varied uniformly between the approximate limits of 10 and 55Hz. 3 The frequency range from 10 to 55Hz and return to 10Hz shall be traversed in approximately 1 minute. This motion shall be applied for a period of 2 hours in each 3 mutually perpendicular directions (total of 6
Resistance to Soldering Heat 260 C Peak 260 C max The chip shall be stabilized at normal condition for 1~2 hours before measuring The chip shall be stabilized at normal condition for 1~2 hours before measuring Thermal Shock Thermal Shock Inductance change: Within ±10% Thermal Shock Inductance change: Within ±10% Test board thickness: 1.0mm Test board material: glass epoxy resin The chip shall be stabilized at normal condition for 1~2 hours before measuring Temperature and time: -40±3°C for 30±3 min. 125°C for 30±3min, please refer to Fig.4.7-1. Transforming interval: Max, 20sec Tested cycle: 100 cycles The chip shall be stabilized at normal condition for 1~2 hours before measuring	Solderability	, i	then immersed in molten solder. 2 Solder temperature: 245±5°C 3 Duration: 5±1sec. 4 Solder: Sn/0.3Ag/0.7Cu 5 Alpha Flux: 6 Immersion depth: all sides of mounting terminal
Thermal Shock 2 Inductance change: Within ±10% 125°C for 30±3min, please refer to Fig.4.7-1. 2 Transforming interval: Max, 20sec 3 Tested cycle: 100 cycles 4 The chip shall be stabilized at normal condition for 1~2 hours before measuring		② Inductance change: Within ±10% 260℃ Peak 260℃ max. Max Ramp Up Rate=3℃/sec. Max Ramp Down Rate=6℃/sec 60~90sec. Time 25℃ to Peak =8 min max	 ② Test board thickness: 1.0mm ③ Test board material: glass epoxy resin ④ The chip shall be stabilized at normal condition
	Thermal Shock	Novisible mechanical damage. Inductance change: Within ±10% 125°C Ambient Temperature 40°C 30 min.	 125°C for 30±3min, please refer to Fig.4.7-1. 2 Transforming interval: Max, 20sec 3 Tested cycle: 100 cycles 4 The chip shall be stabilized at normal condition

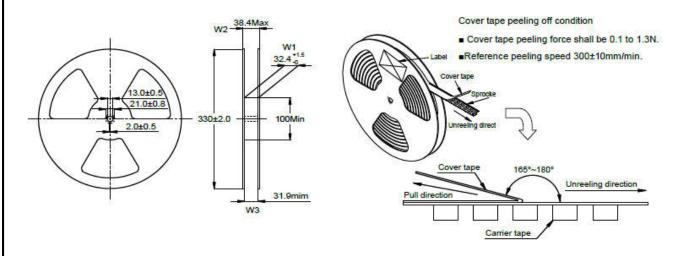
	1	No visible mechanical damage	1	Temperature and time: -40±3°C
Resistance to Low	2 I	Inductance change: Within ±10%	2	Duration: 96±4 hours
Temperature			3	The chip shall be stabilized at normal condition
				for 1~2 hours before measuring
	1 1	No visible mechanical damage	1	Temperature and time: 125±3°C
Resistance to	② I	Inductance change: Within ±10%	2	Duration: 96±4 hours
High			3	The chip shall be stabilized at normal condition
Temperature				for 1~2 hours before measuring
	1 1	No visible mechanical damage	1	Temperature and time: 60±2°C
Humidity test	② I	Inductance change: Within ±10%	2	Humidity: 90% to 96% RH
			3	Duration: 96±4 hours
			4	The chip shall be stabilized at normal condition
				for 1~2 hours before measuring
	1 1	No visible mechanical damage	1	Temperature and time: 85±2°C
Loading at High	2 I	Inductance change: Within ±10%	2	Applied current: Rated current
Temperature	İ		3	Duration: 96±4 hours
Temperature				

5. Packaging Specification:

5-1 Camier Tape Dimensions(mm)



5-2 Reel Dimensions(mm)



5-3 Packing Quantity

150PCS/卷