Specification Sheet for Approved

Customer Name:	
Customer Part No.:	
Ceaiya Part No:	CR4015 Series
Spec No:	L025-2

【For Customer Approval Only **】**

If you Approval, Please Stamp

【RoHS Compliant Parts】

Approved By	Checked By	Prepared By
孝庆辉	刘志坚	劳水花

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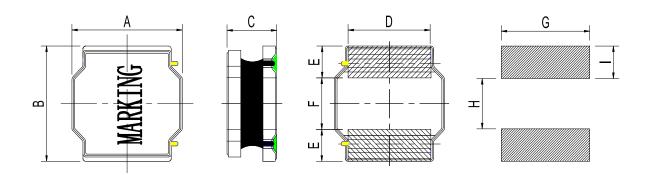
Fax: 0769-89135519

[Version of Changed Record]

Rev.	Effective Date	Changed Contents	Change Reasons	Approved By
A0	2023.05.25	New release	1	Li qing hui



1. Shape and Dimension (Unit:mm)



Α	В	С	D	E	F	G	Н	I
4.0 ± 0.2	4.0 ± 0.2	1.65Max	3.3±0.3	1.0±0.2	2. 0 ±0.3	3.7 Ref	1.9 Ref	1.1 Ref

注: 喷码尺寸长 2.5±0.5mm, 宽 2.0±0.5mm

2.Electronic Characteristics List

Part Number	Inductance	Tolerance	DCR(mΩ)	Isat	Irise	Test	Marking
Part Number	(uH)	(±%)	±30%	(A)	(A)	Condition	Marking
CR4015-R50N	0.5	30	25	6.30	4.20	100KHz /0.25V	R50
CR4015-1R0N	1.0	30	35	3.30	2.50	100KHz /0.25V	1R0
CR4015-1R5N	1.5	30	40	2.70	2.20	100KHz /0.25V	1R5
CR4015-2R2M	2.2	20	53	2.10	2.00	100KHz /0.25V	2R2
CR4015-3R3M	3.3	20	75	1.90	1.80	100KHz /0.25V	3R3
CR4015-4R7M	4.7	20	100	1.45	1.35	100KHz /0.25V	4R7
CR4015-6R8M	6.8	20	135	1.30	1.20	100KHz /0.25V	6R8
CR4015-100M	10	20	200	1.10	1.00	100KHz /0.25V	100
CR4015-150M	15	20	300	0.90	0.85	100KHz /0.25V	150
CR4015-220M	22	20	400	0.72	0.68	100KHz/0.25V	220
CR4015-330M	33	20	660	0.63	0.58	100KHz/0.25V	330
CR4015-470M	47	20	975	0.55	0.45	100KHz/0.25V	470
CR4015-680M	68	20	1600	0.50	0.42	100KHz/0.25V	680

※ All test data is referenced to 25°C ambient;

Isat (A):

DC Saturation Current that will cause initial inductance to drop approximately 30% max.

Irise(A)

DC Current that will cause an approximate ΔT of 40 °C

Measuring Instrument:

L:HIOKI3532-50 DCR:HIOKI 3540 Isat / Irise:HP4284+42841A

3. General Characteristics

3-1. Storage Temperature range : -40 $^{\circ}$ C \sim +105 $^{\circ}$ C

3-2. Operating temperature range: -40° C $\sim +125^{\circ}$ C (Including coil's self temperature rise)

3-3. External appearance : No external defects can be found in the visual inspection.

3-4. Electrode strength : No electrode detachment should be found when the device is

pushed in two directions of X and Y with the force

of 10.0N for 10±2 seconds after soldering between copper plate and the electrodes.

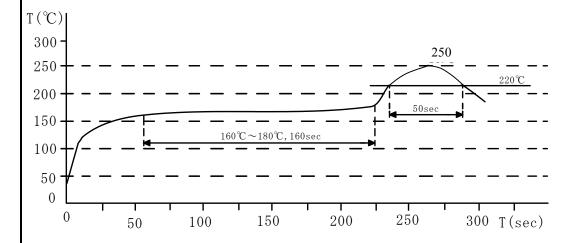
(Refer to figure at right)

3-5. Vibration test : Inductance deviation is within ±10.0% after 1 hour sweeping vibration

in each three directions, namely, forward and backward, up and down, right and left. The frequency is $10\sim55\sim10$ Hz and the amplitude of

1 minute cycle is 1.5mm PP.

3-6. Recommended reflow condition:

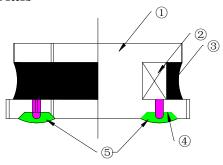


3-7.Humidity test : Inductance deviation is within ±5.0% after 96±4 hours test under the condition of relative humidity of 90∼95% and temperature of 60±2°C, and 1 hour storage under room ambient conditions after the device is wiped with dry cloth.

LEAD-FREE



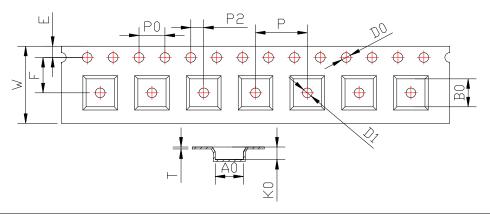
4. Construction and materials



No.	Part name	Material	Ceaiya P/N
1	Drum Core	Ni-Zn Ferrite Core	YN/MT/CY
2	Wire	Polyurethane enameled copper wire	YLSL
3	Adhesive	Epoxy Resin Magnetic Powder	
4	Plating Electrodes	Plating: Ag 3-7μm Ni 1-3 μm Sn 3-7 μm	
(5)	Outer Electrodes	Top surface solder coating Sn99% \ Ag0.3% \ Cu0.7%	YX

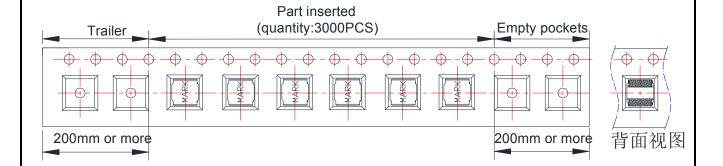
5. Packaging and Marking:

5-1. Carrier Tape Dimensions:

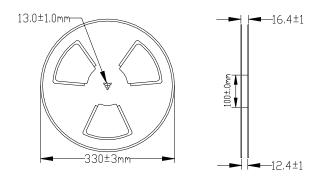


ITEM	W	A0	В0	K0	Р	F	Е	D0	D1	P0	P2	Т
DIM	12.00	4.3	4.3	1.6	8.00	5.50	1.75	1.50	1.50	4.00	2.00	0.30
TOLE	+0.30	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1	+0.1	±0.1	±0.1	±0.05
TOLL	-0.10	10.1	10.1	10.1	10.1	10.1	10.1	70.1	70.1	10.1	10.1	10.03

5-2. Taping Dimensions:



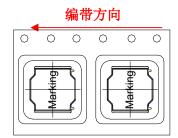
5-3.Reel Dimensions:



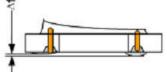
6. PACKAGE SPECIFICATION:

3KPCS/ Reel 9KPCS/ Inner Box 27KPCS/ Outer Box

编带方向 ,如右图所示



Visual Inspection Standard of Product									
No.	Defect Item	Figure	Rejection Identification	Acceptance					
1	Core Defect		The defect length(c or f)more than L/6 or W/6 , NG	AQL=0.65					
2	Core Crack		Visual cracks , NG	AQL=0.65					
3	Starvation		(1)Resin starved length a more than L/2, NG (2)When L>2mm,b>H/2, NG (3)When L≦2mm, b don't control	AQL=0.65					
4	Excessive glue		The length, width or height of product beyond specified value, NG	AQL=0.65					
5	Cold Solder	T Z	(1)For CR2520** Series , cold solder N>0.5mm,NG (2)For other series, cold solder N>1mm,NG	AQL=0.65					
6	Marking Defect		The marking angle a>45° , NG	AQL=0.65					
	*		<u>I</u>						



△f: Clearance between terminal and the surface of plate must be 0.2mm max when coil is placed on a flat plate.