Specification Sheet for Approved

Customer Name:	
Customer Part No.:	
Ceaiya Part No:	CR5030 Series
Spec No:	L021-1

[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

Shenzhen Ceaiya Electronics Co., Ltd.

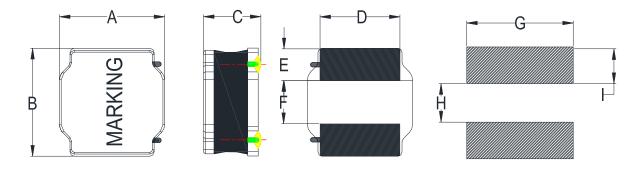
地址 1: 深圳市龙华区观湖街道鹭湖社区观盛二路 5 号捷顺科技中心 B706 地址 2: 广东省东莞清溪镇青滨东路 105 号力合紫荆智能制造中心 10 栋

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[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	Е	F	G	Н	I
5. 0 ± 0 . 2	5.0 ± 0.2	3.0Max	4.0±0.3	1.35±0.3	2.3±0.3	4.2Ref	2.3 Ref	1.4 Ref

注: 喷码尺寸: 长 3.4±0.4mm,宽 2.2±0.4mm

2. Electronic Characteristics List

Part Number	Inductance (uH)	Tolerance (±%)	DCR (mΩ) ±30%	Isat (A)	Irise (A)	Test Condition	Marking
CR5030-R47N	0.47	30	10	9.00	5.00	100KHz /0.25V	R47
CR5030-1R0N	1.0	30	15	6.65	4.00	100KHz /0.25V	1R0
CR5030-1R5N	1.5	30	16	4.80	3.90	100KHz /0.25V	1R5
CR5030-2R2M	2.2	20	23	4.20	3.50	100KHz /0.25V	2R2
CR5030-3R3M	3.3	20	30	3.60	3.00	100KHz /0.25V	3R3
CR5030-4R7M	4.7	20	35	3.10	2.60	100KHz /0.25V	4R7
CR5030-6R8M	6.8	20	52	2.50	2.30	100KHz /0.25V	6R8
CR5030-100M	10	20	70	1.90	1.70	100KHz /0.25V	100
CR5030-150M	15	20	125	1.60	1.40	100KHz /0.25V	150
CR5030-220M	22	20	180	1.40	1.05	100KHz /0.25V	220
CR5030-270M	27	20	190	1.30	0.90	100KHz /0.25V	270
CR5030-330M	33	20	225	1.15	0.80	100KHz /0.25V	330
CR5030-470M	47	20	325	0.95	0.70	100KHz /0.25V	470
CR5030-560M	56	20	420	0.89	0.65	100KHz /0.25V	560
CR5030-680M	68	20	475	0.85	0.60	100KHz /0.25V	680
CR5030-101M	100	20	720	0.58	0.59	100KHz /0.25V	101
CR5030-151M	150	20	1050	0.56	0.55	100KHz /0.25V	151
CR5030-221M	220	20	1300	0.50	0.45	100KHz /0.25V	221

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

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

Irise: DC Current that will cause an approximate ΔT of 40 $^{\circ}$ C

Measuring Instrument:

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

3. General Characteristics

3-1. Storage Temperature range : -40° C $\sim +125^{\circ}$ C (On board)

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 $60 \!\pm\! 2$ seconds after soldering

between copper plate and the electrodes.

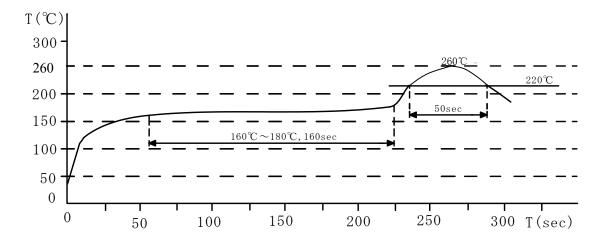
(Refer to figure at right)

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:

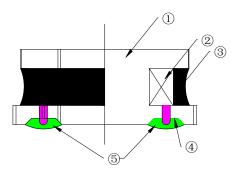


3-7.Humidity test : Inductance deviation is within $\pm 5.0\%$ after 96 ± 4 hours test under the condition of relative humidity of $90 \sim 95\%$ and temperature of $60 \pm 2^{\circ}\mathbb{C}$, and 1 hour storage under room ambient conditions after the device is wiped with dry cloth.



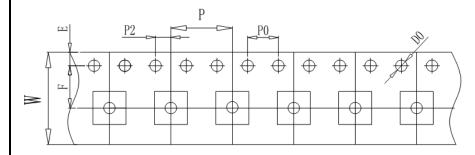


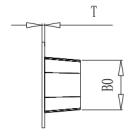
4. Construction and materials



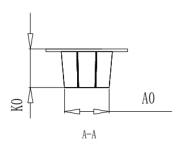
No.	Part name	Material	Ceaiya P/N
1	Drum Core	Ni-Zn Ferrite Core	TW/CY
2	Wire	Polyurethane enameled copper wire	YLSL
3	Adhesive	Epoxy Resin Magnetic Powder	
4	Plating Electrodes	Plating: Ag 3-7 µm Ni 1-3 µm Sn 3-7 µm	
(5)	Outer Electrodes	Top surface solder coating Sn99% \ Ag0.3% \ Cu0.7%	YX

5.Package Specification



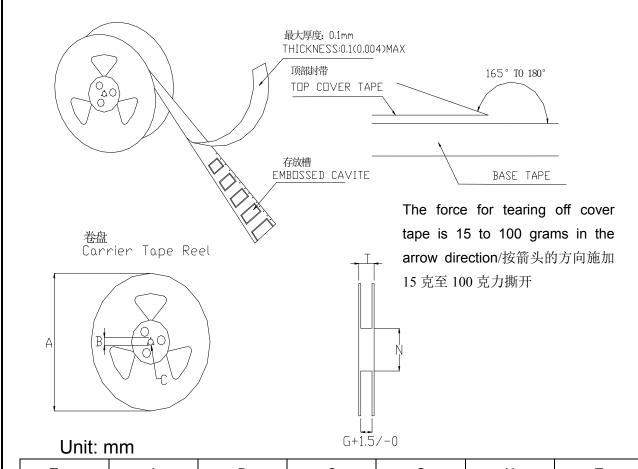


В-В



ITEM	W	A0	B1	K0	P	F	E	D0	P0	P2	Т	
DIM	12.00	5.35	5.35	3.3	8.00	5.50	1.75	1.50	4.00	2.00	0.35	
TOLE	±0.3	±0.1	±0.1	±0.1	±0.1	±0.15	±0.1	+0.1	±0.1	±0.1	±0.05	

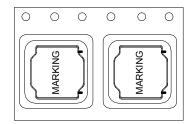
6. CARRIER REEL DIMENSIONS:



Type	Α	В	С	G	N	T
12mm	330	21±0.8	13±0.4	12.4	100	16.4

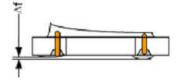
7. PACKAGE SPECIFICATION:

2KPCS/Reel 6KPCS/Inner Box 18KPCS/Outer Box



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		(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



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