Specification Sheet for Approved

Customer Name:	
Customer Part No.:	
Ceaiya Part No:	CR252012 Series
Spec No:	L068-1

【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.

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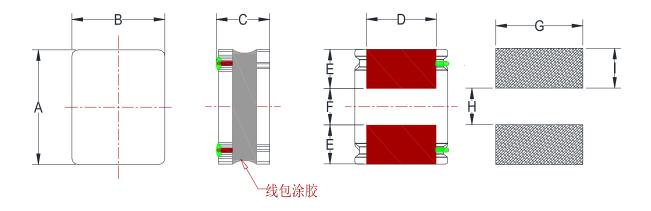
Http: //www.szceaiya.com **Tel:** 0769-89135516 **Fax:** 0769-89135519

[Version of Changed Record]

Rev.	Effective Date	Changed Contents	Change Reasons	Approved By
A 0	2023.05.25	New release	1	Li qing hui



1. Shape and Dimension (Unit:mm)



Α	В	С	D	E	F	G	Н	I
2.5 ± 0.2	2.0± 0.2	1.2±0.1	1.6±0.2	0.80±0.2	0.80±0.2	2.0Ref	0.8 Ref	0.85 Ref

2.Electronic Characteristics List

Part Number	Inductance	Tolerance	DCR(mΩ)	Isat	(A)	Irioo(A)	Test
Part Number	(uH)	(±%)	±25%	Max	Тур	Irise(A)	Condition
CR252012-R33N	0.33	30	40	3.90	4.30	2.35	100KHz /0.25V
CR252012-R68N	0.68	30	63	2.70	3.10	1.73	100KHz /0.25V
CR252012-1R0N	1.0	30	85	2.68	3.00	1.58	100KHz /0.25V
CR252012-1R2N	1.2	30	95	2.30	2.51	1.50	100KHz /0.25V
CR252012-1R5M	1.5	20	113	2.24	2.51	1.40	100KHz /0.25V
CR252012-2R2M	2.2	20	165	1.85	2.07	1.15	100KHz /0.25V
CR252012-3R3M	3.3	20	200	1.61	1.80	1.04	100KHz /0.25V
CR252012-4R7M	4.7	20	315	1.18	1.32	0.84	100KHz /0.25V
CR252012-5R6M	5.6	20	330	1.10	1.26	0.73	100KHz /0.25V
CR252012-6R8M	6.8	20	447	0.98	1.10	0.69	100KHz /0.25V
CR252012-8R2M	8.2	20	506	0.98	1.10	0.65	100KHz /0.25V
CR252012-100M	10	20	575	0.88	0.97	0.62	100KHz/0.25V
CR252012-150M	15	20	900	0.62	0.68	0.40	100KHz/0.25V

X 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: HP4284A+42841

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.

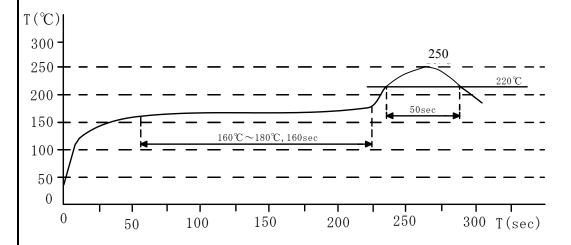
(Refer to figure at right)

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 $10 \sim 55 \sim 10$ Hz and the amplitude of

1 minute cycle is 1.5mm PP.

3-6. Recommended reflow condition:

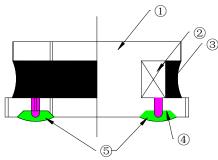


3-7.Humidity test : Inductance deviation is within $\pm 5.0\%$ after 96 ± 4 hours test under the condition of relative humidity of 90 \sim 95% and temperature of 60 $\pm 2^{\circ}$ C, and 1 hour storage under room ambient conditions after the device is wiped with dry cloth.

LEAD-FREE



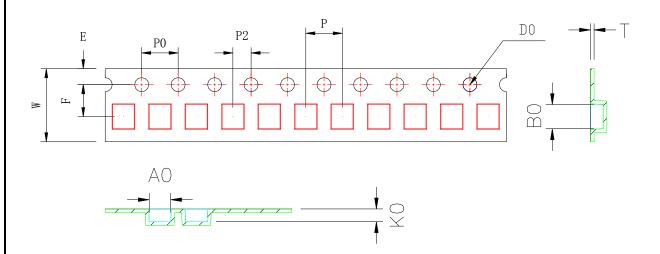
4. Construction and materials



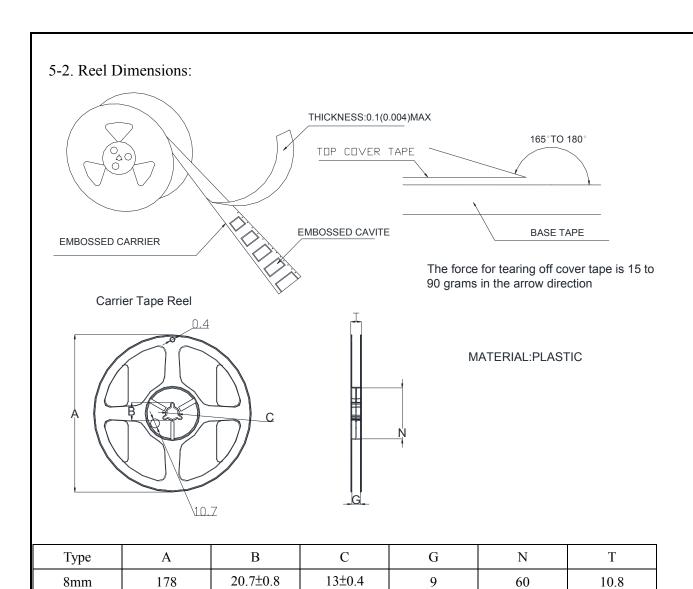
No.	Part name	Material	Ceaiya P/N	
1	Drum Core	Ni-Zn Ferrite Core	CY	
2	Wire	Polyurethane enameled copper wire	YLSL	
3	Adhesive	Epoxy Resin Magnetic Powder		
4	Plating Electrodes	Plating: Ag 3-7 μm Ni 1-3 μm Sn 3-7 μm		
(5)	Outer Electrodes	Top surface solder coating Sn99% \ Ag0.3% \ Cu0.7%	YX	

5. Packaging and Marking:

5-1. Carrier Tape Dimensions:



ITEM	W	A0	В0	K0	Р	F	E	D0	P0	P2	Т
DIM	8.00	2.35	2.65	1.4	4.00	3.5	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



6. PACKAGE SPECIFICATION:

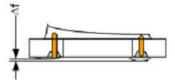
2KPCS/ Reel 20KPCS/ Inner Box 80KPCS/ Outer Box

编带方向 ,如下图所示:



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		(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



Af: Clearance between terminal and the surface of plate must be 0.1mm max when coil is placed on a flat plate.