SPECIFICATION FOR APPROVAL

承認!

CUSTOMER NUMBER

客户名稱: 编号: Y-18020602

DESCRIPTION QUANTITY

型 號: CR8040 - 152M 數量: 20PCS

PART NO. DATE

品 名: **SMD POWER INDUCTORS** 日期: 2023.4.6

CUSTOMER PART NO. NOTE

客戶料號: 注解:

APPROVAL SIGNATURE
客戶承認簽章

Approved By	Checked By	Drawn By
核 准	审查	制 作
李庆辉	刘志坚	劳水花

深圳市柯爱亚电子有限公司

Shenzhen Ceaiya Electronics Co., Ltd.

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CUSTOMER:	SPECIFICATIONS	ТҮРЕ
	(Revisions)	CR8040-152M

History of change

Rev.	Effective Date	Changed Contents	Change reasons	Approved By
A0	2023-4-6	New release	/	

Note:	SPEC.NO.:
	Y-18020602
	1/6



SPECIFICATIONS

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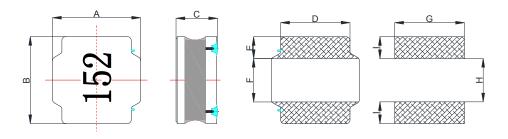
CR8040 - 152M

1. Scope

This specification apply for CR8040 of power inductors

2. Appearance

2-1.Dimensions(mm)



A	8.0mm ± 0.3
В	8.0mm ± 0.3
С	4.2mmMax
D	6.3±0.3mm
Е	2.0±0.3mm
F	4.0±0.3mm
G	7.5mm
Н	3.8mm
I	2.2mm

3. Coils Specification

3-1. Connection (Bottom View)



"S" is winding start

3-2. Turns and Wire

Terminal	S-F
Turns	156.5 Ts
Wire	0.11mm G1 P180

* Winding Turns are approx.





Note:	SPEC.NO.:
	Y-18020602
	2/6



^{*} Dimension without tolerance is approx.

SPECIFICATIONS

TYPE:

CR8040 - 152M

3-3. Electronical characteristics

Item	Specifications	Measuring	Measuring
Item	Specifications	Conditions	Instrument
Inductance	1.5mH ± 20% Within	100KHz/0.25V	CH1062/HIOKI3532-50
D.C.R	4.6 Ω± 30%	25℃	CH502BC/HIOKI3540
Isat ※1	0.35A	100KHz/0.25V	Microtest 6377&6220
Irise ※2	0.28A	25℃	Microtest 6377&6220

^{**} This indicates the value of current when the inductance is 30% lower than its initial value at D.C superposition or D.C current when temperature rise $\Delta T=40^{\circ}$ C whichever is lower .(Ta=20°C)

4. General Characteristics

4-1. Storage Temperature range : -40° C $\sim +105^{\circ}$ C

4-2. Operating temperature range: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (Including coil's self temperature rise)

 $\hbox{$4$-3.} External\ appearance \quad : \quad No\ external\ defects\ can\ be\ found\ in\ the\ visual\ inspection.$

4-4. 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.

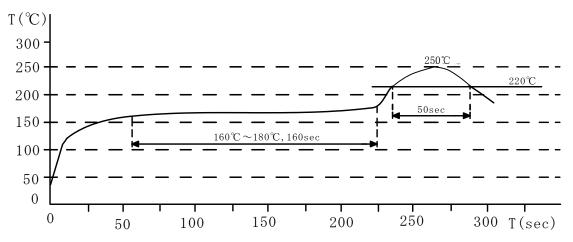
(Refer to figure at right)

4-5. Vibration test : Inductance deviation is within $\pm 10\%$ 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.

4-6.Recommended reflow condition



Note:	Spec. No.	
	Y-18020602	
		3/6



SPECIFICATIONS

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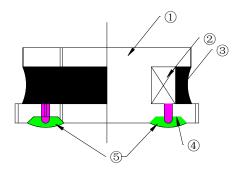
CR8040 - 152M

4-7. 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±2°C, and 1 hour storage under room ambient conditions after the device is wiped

with dry cloth.

5. Construction and materials



No.	Part name	Material	Manufacturer
1	Drum Core	Ni-Zn Ferrite Core	CY/FY
2	Wire	Polyurethane enameled copper wire	YLSL
3	Adhesive	Epoxy Resin Magnetic Powder	DZ/JH
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

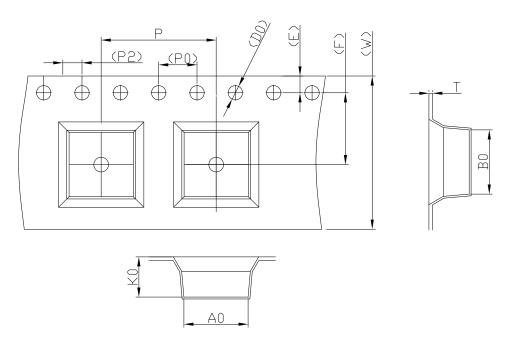
Note:	Spec. No.
	Y-18020602
	4/6



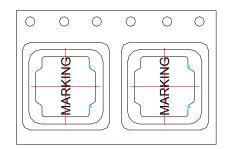
TYPE:

CR8040 - 152M

6. TAPE DIMENSIONS:



ITEM	W	AO	В0	КО	P	F	E	DO	D1	P0	P2	Т
DIM	16. 00	8. 40	8. 40	4. 2	12. 00	7. 50	1. 75	1. 50	1. 50	4. 00	2. 00	0. 35
TOLE	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	+0. 1	+0. 1	±0.1	±0.1	±0.05



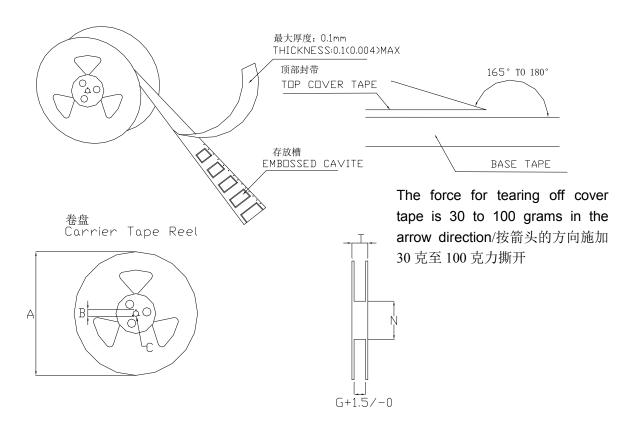
Note:	Spec. No.
	Y-18020602
	5/6



TYPE:

CR8040 - 152M

7. TAPE REEL DIMENSIONS:



单位:毫米

Туре	A	В	С	G	N	T
16mm	330	21±0.8	13±0.4	16.4	100	20.4

8. PACKAGE SPECIFICATION:

1000PCS/Reel 3000PCS/Inner Box 9000PCS/Outer Box

Note:	Spec. No.
	Y-18020602
	6/6

