

承 认 书

SPECIFICATION FOR APPROVAL

CUSTOMER			
CUSTOMER'S P/N			
DATE	16/Mar/2023	REVISION NO.	A
PART NO.	CKMW4520 Series		
DRAWN NO.			
DESCRIPTION.	SMD WIRE WOUND TYPE COMMON MODE FILTER		
Customer's Signature			
Approved by	Checked by	Drawn by	
黄大燕	黄大燕	林树英	
16/Mar/2023	16/Mar/2023	16/Mar/2023	



广 州 市 今 凯 电 子 有 限 公 司

GUANG ZHOU CHK ELECTRONIC Co., Ltd

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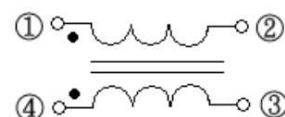
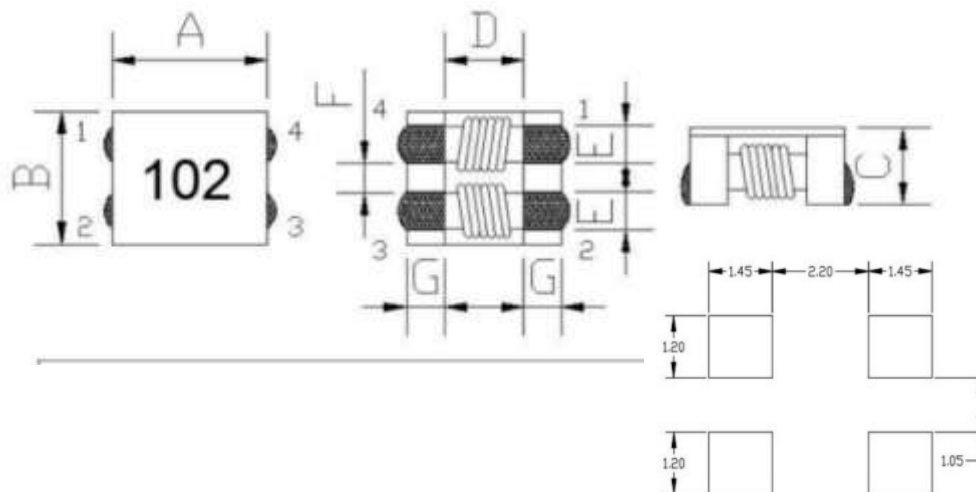
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1.SHAPE & DIMENSION

UNIT: mm

SCHEMATICS



PRODUCT	A	B	C	D	E	F	G
CKMW4520	4.7	4.5	2.0	2.7	0.75	1.25	1.0
D-SERIES	±0.5	±0.5	MAX	TYP	TYP	TYP	TYP

PART NUMBERING SYSTEM

CK MW 4520 D 231 T

1 2 3 4 5 6

- 1 CHK PRODUCTION (今凯制造)
- 2 PRODUCT CATEGORY (产品种类)
- 3 DIMENSIONS (尺寸规格)
- 4 IMPEDANCE MEASUREMENT (阻抗衡量)
- 5 INDUCTANCE (电感量)
- 6 PACKAGING (包装方式)

APPROVED BY	CHECKED BY	DRAFT BY
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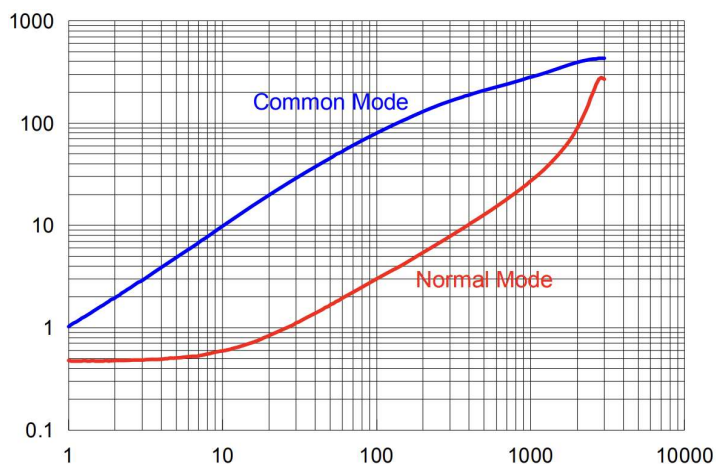
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2.SPECIFICATION

PART NUMBER	Z(Ω) at100MHZ/0.2V		DC RESISTANCE	RATED CURRENT(A)	RATED VOLT. (V)MAX	IR
	(Min)	TYP	m Ω MAX	MAX	Vdc	m Ω MIN
CKMW4520D231T	180	230	50	1.5	50	10
CKMW4520D301T	100	300	45	1.5	50	10
CKMW4520D401T	300	400	55	1.4	50	10
CKMW4520D401T	300	420	55	1.4	50	10
CKMW4520D501T	350	500	57	1.3	50	10
CKMW4520D701T	500	700	59	1.3	50	10
CKMW4520D901T	650	900	60	1.2	50	10
CKMW4520D102T	800	1000	68	1.2	50	10
CKMW4520D142T	1000	1400	80	1.0	50	10

CKMW4520D231T



◆TEST CONDITION

ITEM	TEST INSTRUMENTS
L	Agilent-4291A+Agilent-16107A
DCR	Agilent-4338B
I.R.	Agilent-4339

※此物料仅用于消费电子领域，若用于车载，航天，军事领域引起的一切品质和责任问题，我司既不承担※

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3.MATERIAL LIST & GENERAL SPECIFICATION

材料名称	型号及规格
ITEM	Materials
Upper Plate	Ferrite
Core	Ferrite Core
Termination	Tin(Pb Free)
Wire	Enameled Copper Wire

GENERAL SPECIFICATION

Electrical specifications :	at 20~25℃
Operation Temperature :	-40~+125℃
Storage Temperature :	-40~+125℃

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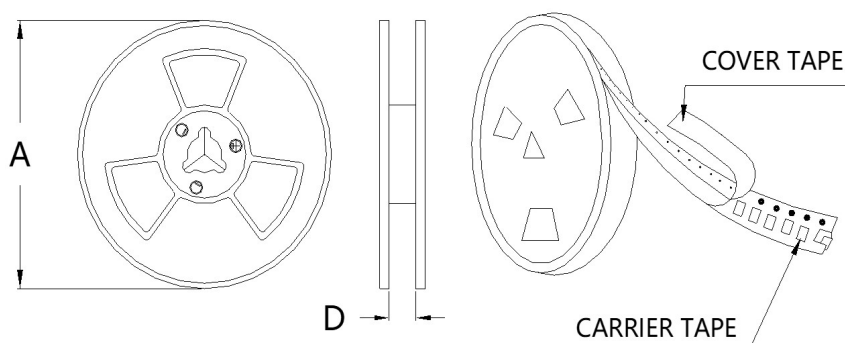
4.PACKAGING(unit: mm)

1.包装类型

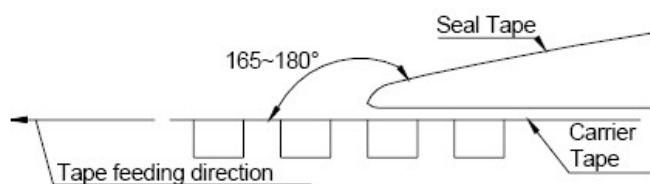
2.包装尺寸

13" 盘

7" 盘



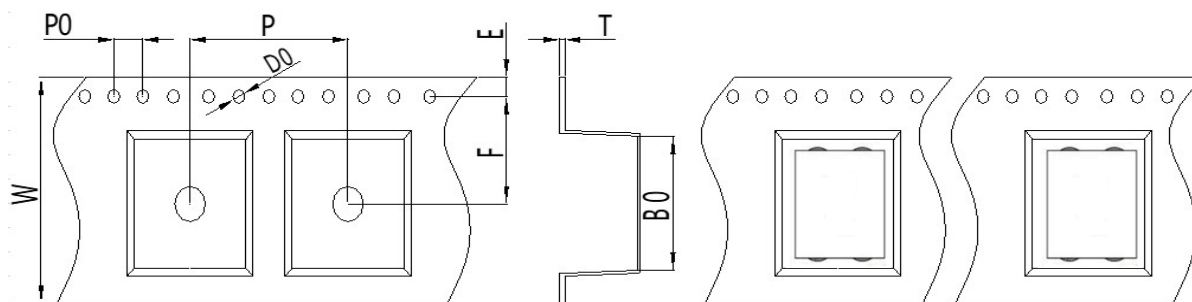
	13" 盘	7" 盘
A	$\Phi 330 \pm 2.0$	$\Phi 178 \pm 2.0$
D	12.0 ± 0.5	



Peel-off strength:10~100gf.

Peel-off angle:165°-180°

Peel-off speed:300mm/min.



产品摆放方向顶视图

底视图

Item	W	B0	P	T	E	F	D0	P0		
DIM(mm)	12.0 ± 0.3	5.45 ± 0.1	8.0 ± 0.1	0.3 ± 0.05	1.75 ± 0.1	5.12 ± 0.1	1.5 ± 0.1	4.0 ± 0.1		

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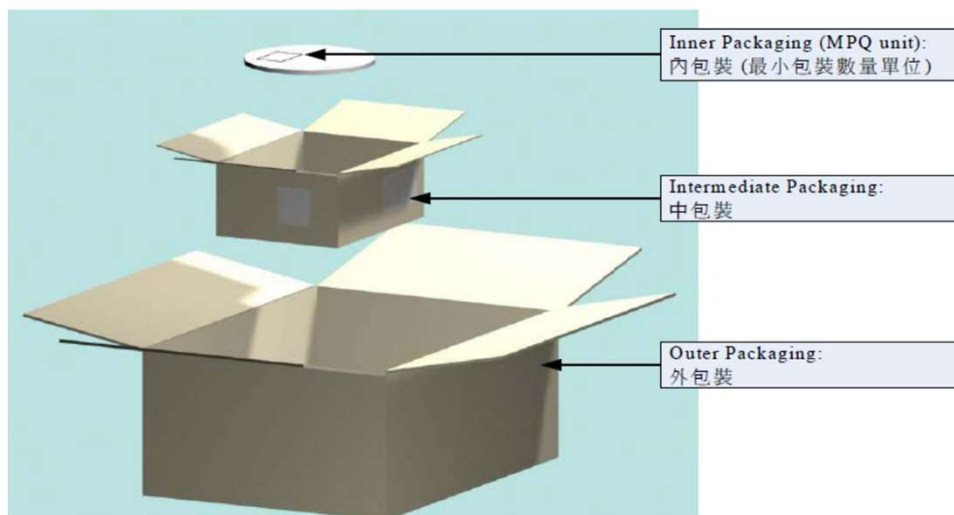


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5. CARTON



1.1 外箱: 36*36*23 cm 一箱裝 2內箱

1.2 內箱: 33.5*33.5*9 cm 一箱裝5卷制品

1.3 外箱材質: A三A

1.4 內箱材質: A=A

1.5 每一卷制品用一只静电袋包裝

1.6 每一静电袋內放一只袋干燥剂

1.7 每一卷上面依标签样式的要求贴上标签明细

1.8 出货内外箱贴上该箱内实际内容明细

1.9 出货标签规格如下: 尺寸=长度:39mm 宽度:29mm

(如: 客戶有特殊要求時, 則依客戶要求實施.)

储存条件及期限:

温度: 20-25℃

湿度: ≤70%

时间: 六个月

卷轴包装数量

每卷	1000	PCS
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外箱包装数量

每箱	10 卷,共	10000	PCS
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内箱包装数量

每箱	5 卷,共	5000	PCS
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6. RELIABILITY TEST

Test Items		Test Conditions	Criteria
1	High temperature resistance	Temperature:85℃ Testing time: 1000 hours. Measurement: After placing for 24 hours min	Appearance: Ferrite shall not be damaged. Impedance : Within ±20% of the initial value
2	Low temperature resistance	Temperature:-25℃ Testing time: 1000 hours. Measurement: After placing for 24 hours min.	Appearance: cracking, chipping or any other defects harmful to the characteristics shall not be allowed. Impedance: Within±20% of the initial value.
3	Thermal shock	Temperature:-25℃,+85℃, kept stabilized for 30 minutes each Cycle:100 cycles Measurement: After placing for 24 hours min.	Appearance: Cracking, chipping or any other defects harmful to the characteristics shall not be allowed. Impedance: Within ±30% of the initial value.
4	Humidity resistance	Humidity:95%RH Temperature:60℃ Testing time: 1000 hours. Measurement: After placing for 24 hours min	Appearance: Ferrite shall not be damaged. Impedance: Within ±20% of the initial value.

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7. SOLDERING CONDITIONS

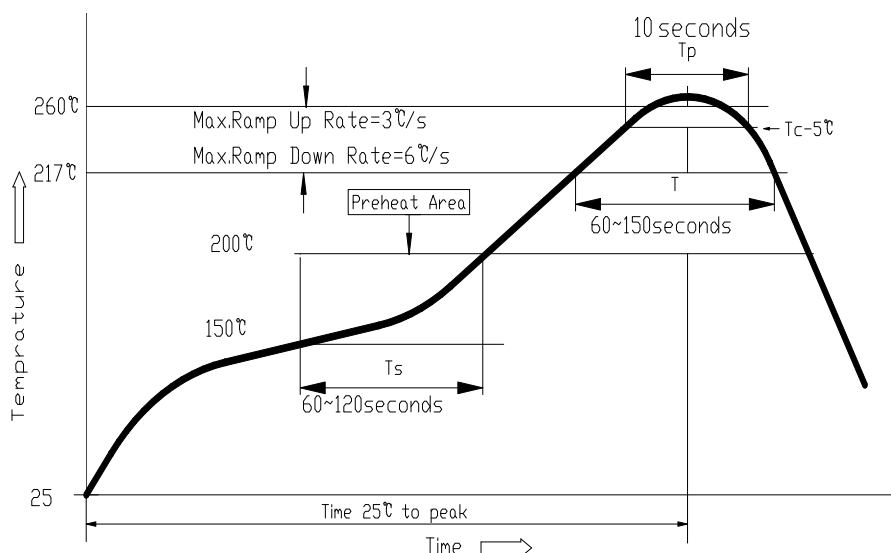
Applicable soldering process to the products is refl.

Soldering Materials

(1) Solder:Sn-3.0Ag-0.5Cu

(2) Flux:Use rosin-based flux,but not strongly acidic flux (with xhlorine exceeding 0.2wt%).Do not use water-soluble flux.

Reflow Soldering Profile



Soldering Iron

Reworking with electric soldering iron must preheating at 150°C for 1 minute is required,and do not directly touch the core with the tip of the soldering iron.The reworking soldering conditions are as follows.

- ①Temperature of soldering iron tip:350°C;
- ② Soldering iron power output:≤30W;
- ③ Diameter of soldering iron end:≤1.0mm;
- ④Soldering time:<3 s

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