

# SPECIFICATION FOR APPROVAL

## 承 認 書

**CUSTOMER**

客戶名稱：

**NUMBER**

編號： L-4520A

**DESCRIPTION**

品 名： Common Mode Line Filter

**QUANTITY**

數量： 20 PCS

**PART NO.**

型 號： CCM4520A Series

**DATE**

日期： 2025-07-14

**CUSTOMER PART NO.**

客戶料號：

**NOTE**

注解：

**APPROVAL SIGNATURE**

客戶承認簽章

Approved By 核 准	Checked By 审 查	Drawn By 制 作
李 庆 辉	苏 高 峰	劳 水 花

深圳市柯爱亚电子有限公司

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CUSTOMER:	SPECIFICATIONS ( R e v i s i o n s )	TYPE <b>CCM4520A Series</b>
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**History of change**

Rev.	Effective Date	Changed Contents	Change reasons	Approved By
A0	2024-05-30	New release	/	

Note :	Spec. No. L-4520A
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# SPECIFICATIONS

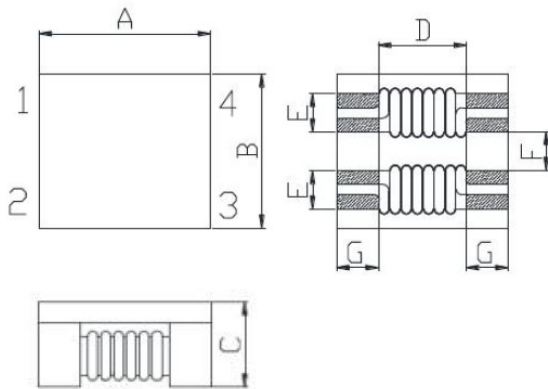
TYPE:  
**CCM4520A Series**

## 1. Scope

This specification apply for CCM4520A Common mode filter

## 2. Appearance

### 2-1. Dimensions(mm)

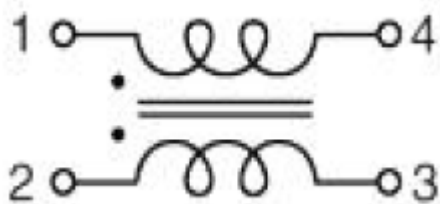


A	5.0±0.5
B	4.5±0.5
C	2.5 Max
D	2.7 Typ.
E	1.15 Typ.
F	0.85 Typ.
G	1.0 Typ.

注：印字白色字样

## 3. Coils Specification

### 3-1. Connection (Bottom View)



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TYPE:  
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## 3-3. Electronical characteristics

Part No.	Impedance ( $\Omega$ at 100MHz)		DC Resistance (m $\Omega$ )Max.	Rated Current (A) Max.	Rated Volt. (Vdc) Max.	IR (M $\Omega$ ) Min.
	MIN	TYP				
CCM4520A--900	60	90	35	3.2	50	10
CCM4520A -151	90	150	40	3.1	50	10
CCM4520A -231	180	230	45	3.0	50	10
CCM4520A -301	200	300	45	3.0	50	10
CCM4520A-501	300	500	55	2.5	50	10
CCM4520A -701	500	700	59	2.2	50	10
CCM4520A -102	750	1000	68	2.1	50	10
CCM4520A -122	1000	1200	74	2.0	50	10
CCM4520A -142	1000	1400	81	1.7	50	10

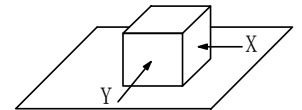
a . Rated Current: Temp. rise 40°C Typ.

## 4. General Characteristics

4-1. Storage Temperature range : -40°C ~ +125°C

4-2. Operating temperature range: -40°C ~ +125°C (Including coil's self temperature rise)

4-3. External appearance : 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 ±3.0% after 1 hour sweeping vibration in each three directions, namely, forward and backward, up and down, right and left. The frequency is 10~55~10Hz and the amplitude of 1 minute cycle is 1.5mm PP.

4-6. 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.

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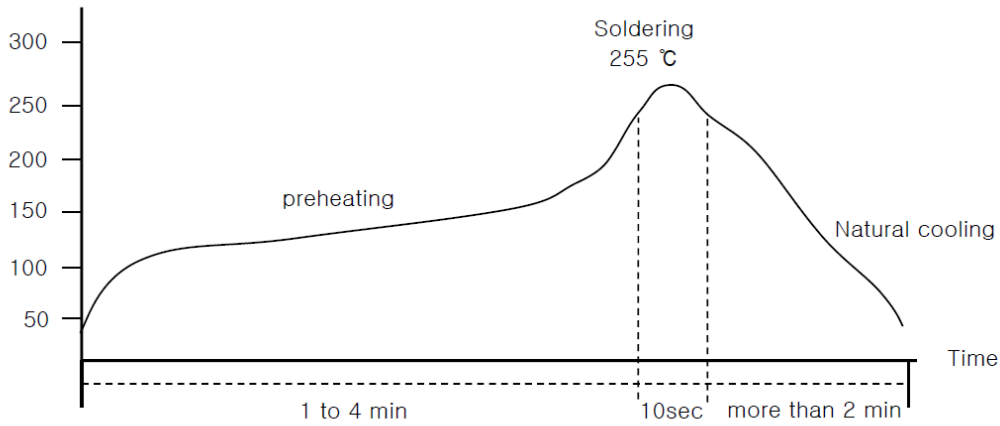
# SPECIFICATIONS

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**CCM4520A Series**

4-7.Recommended reflow condition :

Temperature °C



Temperature and humidity . After that , no mechanical and electrical defect should be found .

## 5. Material list

No.	ITEM	DESCRIPTION
1	CORE	FERRITE
2	WIRE	P180 G1
3	CASE	LCP
4	TIN	107H
5	INK	WHITE

Note :

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L-4520A

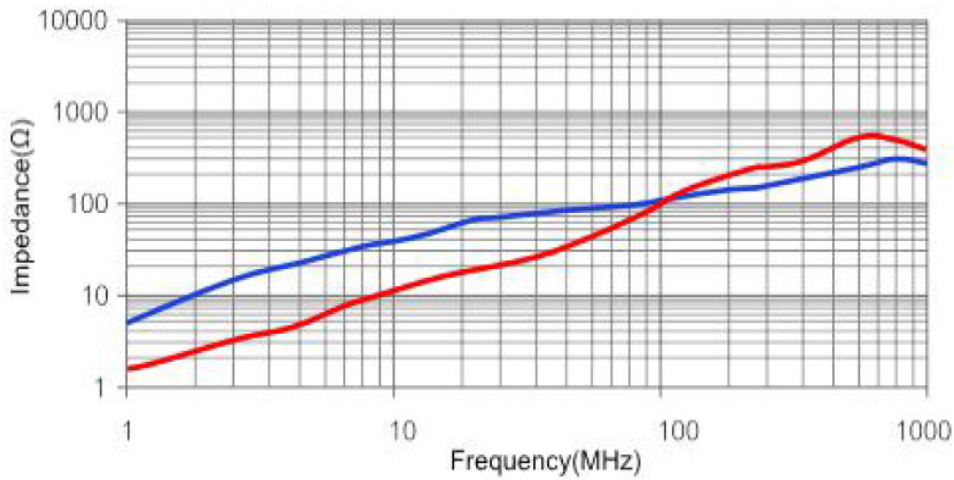
# SPECIFICATIONS

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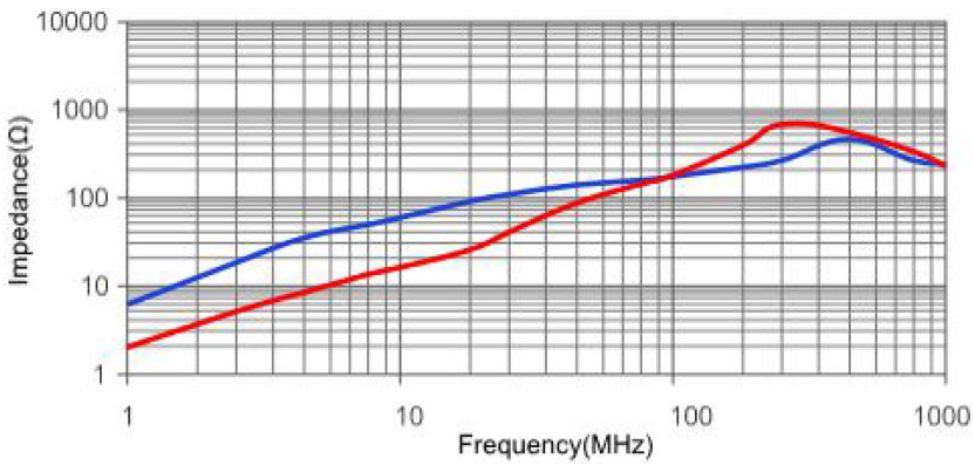
**CCM4520A Series**

## 6. TYPICAL ELECTRICAL CHARACTERISTICS

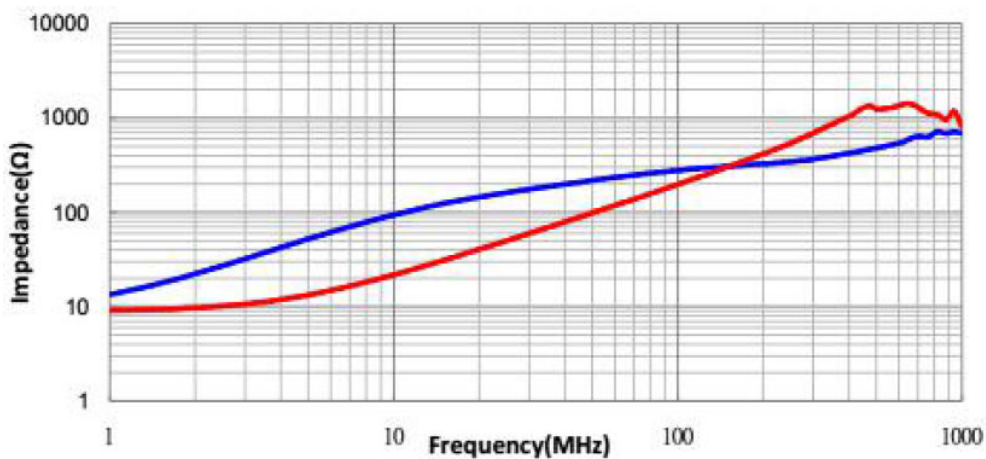
CCM4520A-900



CCM4520A-151



CCM4520A-231&301



Note :

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L-4520A



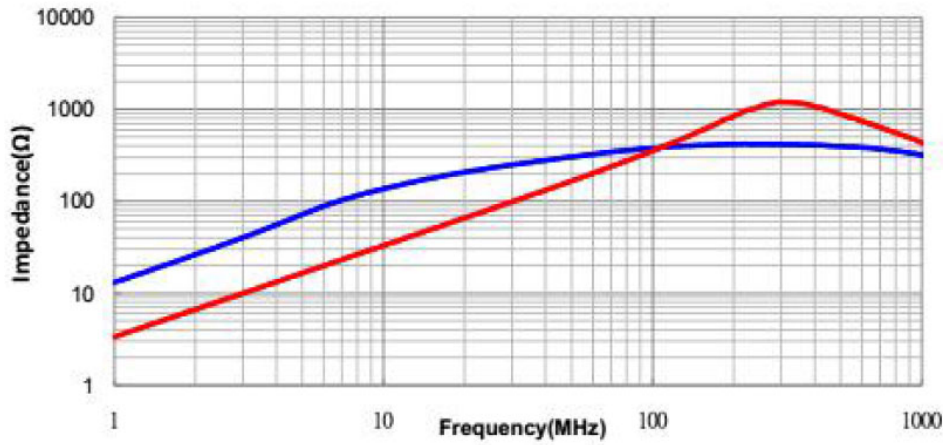
# SPECIFICATIONS

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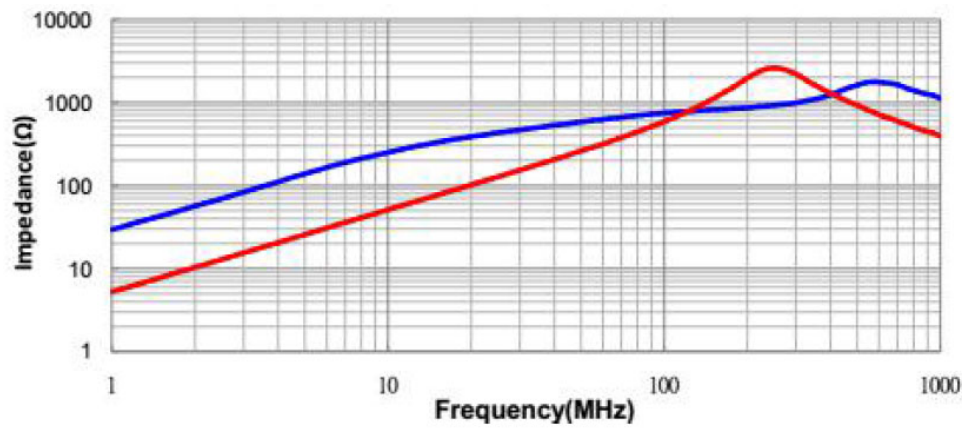
**CCM4520A Series**

## 6. TYPICAL ELECTRICAL CHARACTERISTICS

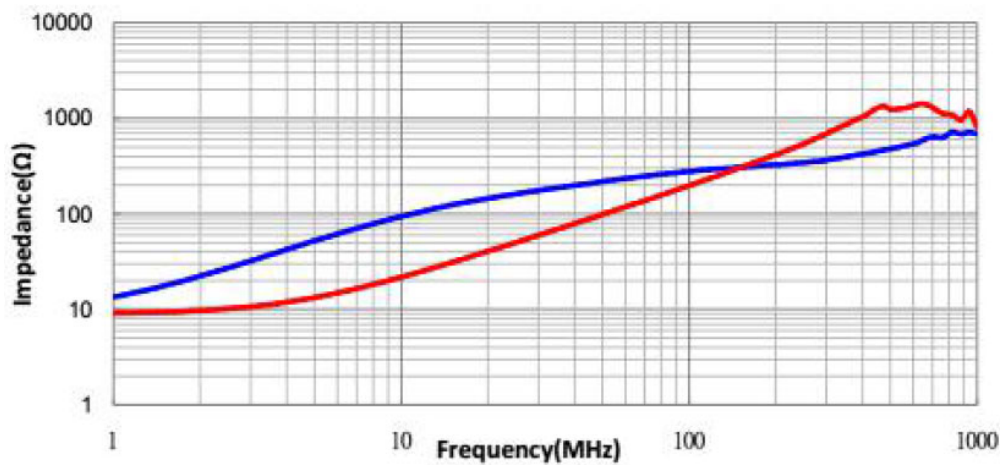
CCM4520A-501



CCM4520A-701



CCM4520A-901&102



Note :

Spec. No.

L-4520A

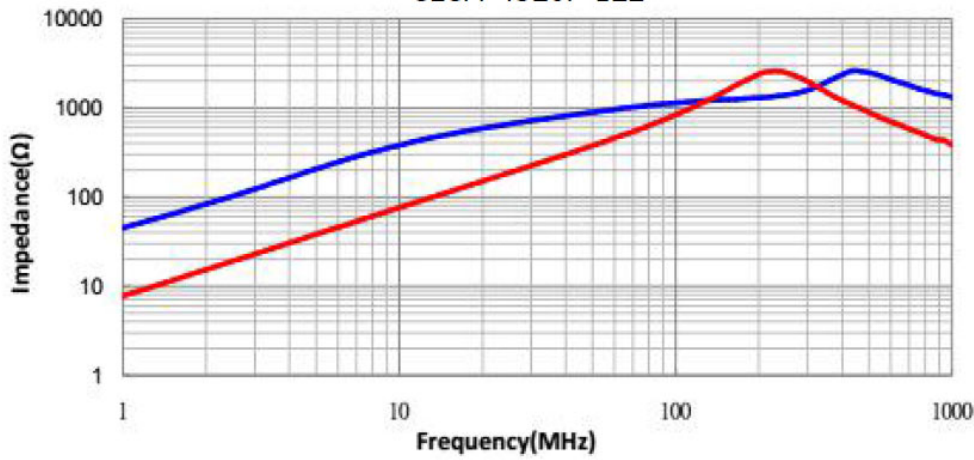
# SPECIFICATIONS

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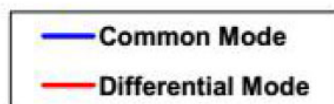
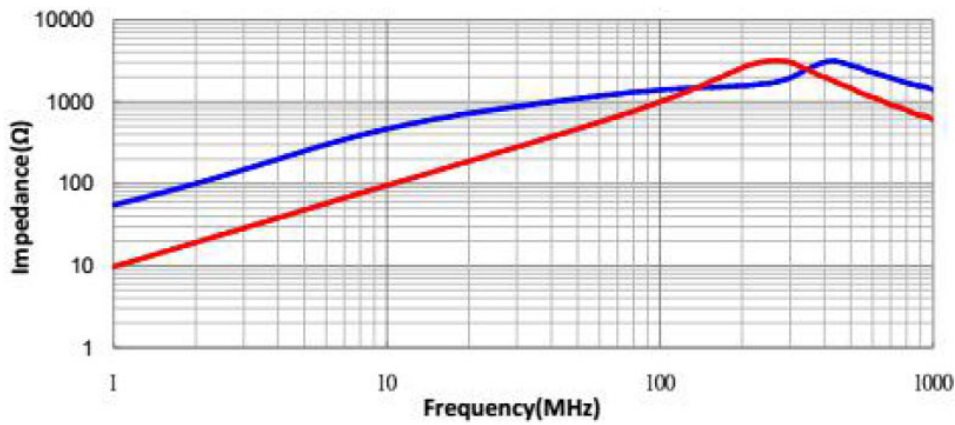
**CCM4520A Series**

## 6. TYPICAL ELECTRICAL CHARACTERISTICS

CCM4520A-122



CCM4520A-142



Note :

Spec. No.

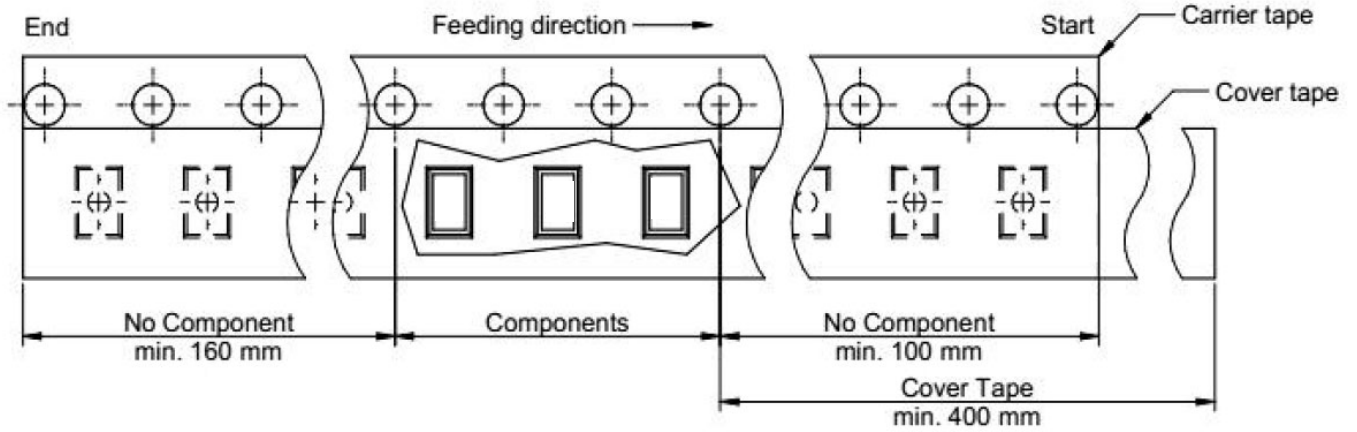
L-4520A

# SPECIFICATIONS

TYPE:  
**CCM4520A Series**

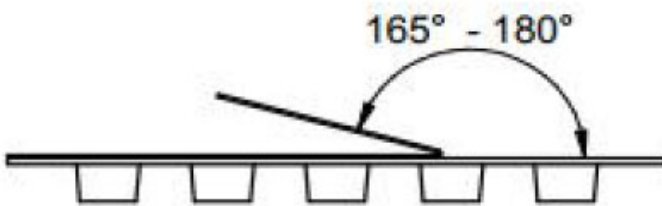
## 7. PACKAGING INFORMATION:

( 1 ) Configuration



(2). Dimensions

Style	Distance	Pull-of force
12	8mm	10~120g



(3) PACKAGE SPECIFICATION:

1000PCS/Reel

Note :	Spec. No. L-4520A
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