

**深圳市长江微电科技有限公司**  
**SZ CJIANG TECHNOLOGY CO.,LTD**

**Specification For Approval**

|               |                                             |
|---------------|---------------------------------------------|
| Customer      |                                             |
| Product Name  | common mode line filte                      |
| Customer P/N: |                                             |
| Cjiang P/N:   | FLCM0904-XXX Series<br>FLCM0905C-XXX Series |

[ ☒ New Released, ☐ Revised]

**SPEC No.:**

|                                   |  |  |
|-----------------------------------|--|--|
| <b>REMARK:</b>                    |  |  |
|                                   |  |  |
| <b>Customer Approval Feedback</b> |  |  |
|                                   |  |  |

• 深圳市长江微电科技有限公司

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# 深圳市长江微电科技有限公司

## SZ CJIANG TECHNOLOGY CO.,LTD

| Version change history |           |             |          |         |       |
|------------------------|-----------|-------------|----------|---------|-------|
| Rev                    | Date      | Description | APPROVED | CHECKED | DRAWN |
| 1.0                    | 2022/8/9  | 文件制定        | Bond     | 罗雪婷     | 董京天   |
| 2.0                    | 2024/1/24 | 更改规范        | Bond     | Charles |       |

### Caution :

All products listed in this specification are developed, designed and intended for use in general electronics equipment. The products are not designed or Warranted to meet the requirements of the applications listed below, whose performance and/or quality require especially high reliability, or whose failure, malfunction or trouble might directly cause damage to society, person, or property. Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below. Please contact us for more details if you intend to use our products in the following applications.

1. Aircraft equipment.
2. Aerospace equipment.
3. Undersea equipment.
4. nuclear control equipment.
5. military equipment.
6. Power plant equipment.
7. Medical equipment.
8. Transportation equipment (automobiles, trains, ships,etc.)
9. Traffic signal equipment.
10. Disaster prevention / crime prevention equipment.
11. Data-processing equipment.
12. Applications of similar complexity or with reliability requirements comparable to the applications listed in the above.

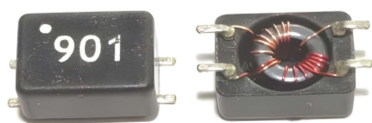
## Common Mode Line Filte FLCM0904 Series

### Product Identification:

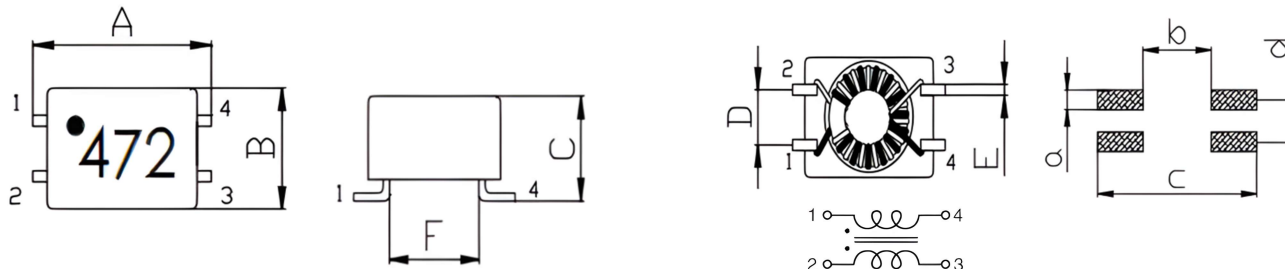
**FLCM 0904 - 101**

**(1) (2) (3)**

- (1) Series  
(2) Dimensions(L\*H\*W)  
(3) Impedance(100=10uH, 101=100uH, 102=1000uH )



### DIMENSIONS DRAWING:



| TYPE     | Shape and Dimensions |        |        |         |        |        |        | Recommended Pattern |        |         |         |
|----------|----------------------|--------|--------|---------|--------|--------|--------|---------------------|--------|---------|---------|
|          | A(mm)                | B(mm)  | C(mm)  | D(mm)   | E(mm)  | F(mm)  | G(mm)  | a(mm)               | b(mm)  | c(mm)   | d(mm)   |
| FLCM0904 | 9.5Max               | 5.6Max | 5.2Max | 2.54Typ | 0.5Typ | 5.5Typ | 6.0Typ | 1.0Typ              | 4.5Typ | 10.5Typ | 2.54Typ |

## Common Mode Line Filte FLCM0904 Series

### ELECTRICAL CHARACTERISTIC:

| Part Number  | Inductance<br>+50%/-30%<br>@100KHz/0.1V | Leakage<br>Inductance<br>L1-4(2-3short)<br>@100KHz/0.1V | DCR<br>(mΩ)Max | Current<br>Rating(A) | Impedance<br>(Ω)Min | Freq.range<br>(MHz) | Rated Volt<br>(Vdc)Max. |
|--------------|-----------------------------------------|---------------------------------------------------------|----------------|----------------------|---------------------|---------------------|-------------------------|
| FLCM0904-110 | 11uH                                    | 0.08 uH Typ                                             | 120            | 0.5                  | 160                 | 20-300              | 50V                     |
| FLCM0904-250 | 25uH                                    | 0.15 uH Typ                                             | 200            | 0.5                  | 450                 | 20-150              | 50V                     |
| FLCM0904-510 | 51uH                                    | 0.20 uH Typ                                             | 300            | 0.5                  | 800                 | 20-100              | 50V                     |
| FLCM0904-101 | 100uH                                   | 0.25 uH Typ                                             | 100            | 0.5                  | 600                 | 3-20                | 50V                     |
| FLCM0904-471 | 470uH                                   | 0.28 uH Typ                                             | 280            | 0.5                  | 1200                | 2-15                | 50V                     |
| FLCM0904-102 | 1000uH                                  | 0.28 uH Typ                                             | 300            | 0.5                  | 1800                | 1-10                | 50V                     |
| FLCM0904-222 | 2200uH                                  | 0.29 uH Typ                                             | 400            | 0.5                  | 3000                | 0.8-5               | 50V                     |
| FLCM0904-472 | 4700uH                                  | 0.30 uH Typ                                             | 700            | 0.5                  | 5000                | 0.5-3               | 50V                     |

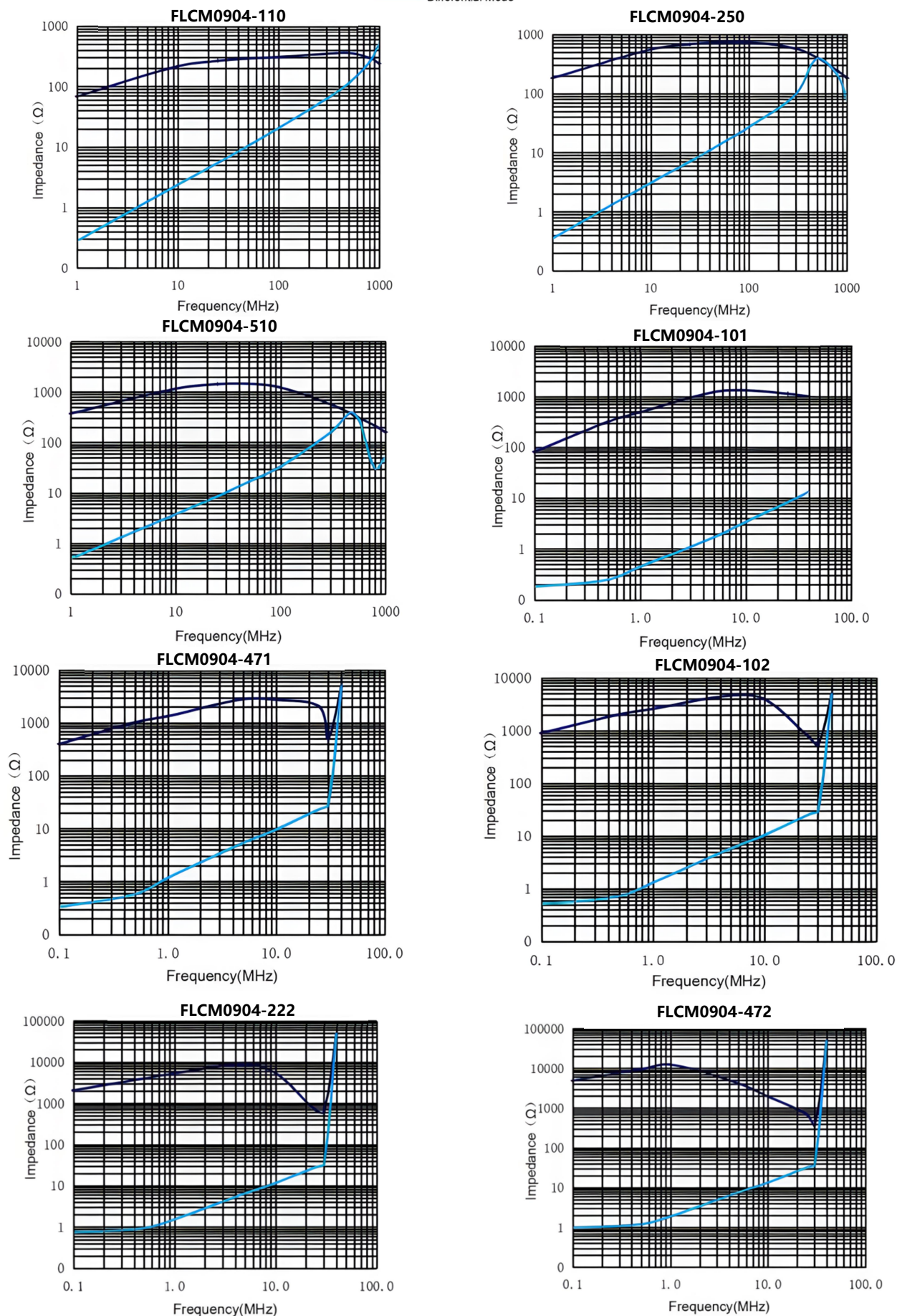
(1) .Rated Current: Temp. rise 40°C TYP

(2) .Operating Temperature: -40 °C up to + 125°C

## Common Mode Line Filter FLCM0904 Series

### CHARACTERISTICS(REFERENCE )

— Common Mode  
— Differential Mode



## Common Mode Line Filte FLCM-0905C Series

### Product Identification:

FLCM 0905 C - 100 Y  
(1) (2) (3) (4) (5)

(1)Series

(2)Dimensions(L\*H\*W)

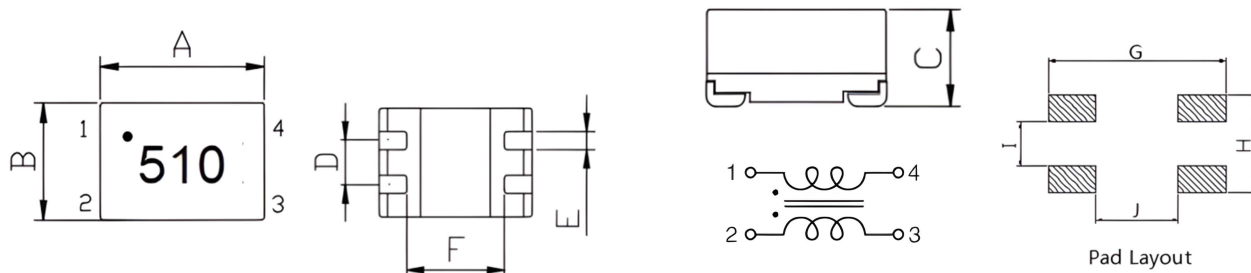
(3)Type

(4)Inductance(100=uH, 101=100uH, 102=1000uH)

(5)Tolerance See Spec table



### DIMENSIONS DRAWING:



| Shape and Dimensions |         |         |         |          |         |        | Recommended Pattern |        |        |        |
|----------------------|---------|---------|---------|----------|---------|--------|---------------------|--------|--------|--------|
| TYPE                 | A(mm)   | B(mm)   | C(mm)   | D(mm)    | E(mm)   | F(mm)  | G(mm)               | H(mm)  | I(mm)  | J(mm)  |
| FLCM0905C            | 9.2±0.3 | 6.0±0.3 | 5.0±0.3 | 2.54±0.2 | 1.0±0.1 | 5.7Typ | 6.0Typ              | 5.1Typ | 2.5Typ | 1.5Typ |

## Common Mode Line Filte FLCM0905C Series

### ELECTRICAL CHARACTERISTIC:

| Part Number    | Inductance<br>L1=L2 (uH) | Test<br>Frequency | DCR<br>N1,N2(Ω) | Rated<br>Current<br>(A)Max. | Impedance<br>(Ω)Min | Freq.<br>range(MHz) | Rated Volt.<br>(Vdc)Max. | IR (Ω) Min. |
|----------------|--------------------------|-------------------|-----------------|-----------------------------|---------------------|---------------------|--------------------------|-------------|
| FLCM0905C-100Y | 10 +50%/-30%             | 1KHz/0.1V         | 0.08 Max.       | 1.6                         | 300                 | 20-200              | 50                       | 10M         |
| FLCM0905C-250Y | 25 +50%/-30%             | 1KHz/0.1V         | 0.16 Max        | 1.0                         | 600                 | 5-100               | 50                       | 10M         |
| FLCM0905C-400Y | 40 +50%/-30%             | 1KHz/0.1V         | 0.25 Max.       | 0.9                         | 800                 | 5-100               | 50                       | 10M         |
| FLCM0905C-510Y | 51 +50%/-30%             | 1KHz/0.1V         | 0.32 Max.       | 0.8                         | 1000                | 5-50                | 50                       | 10M         |
| FLCM0905C-251Y | 250 ±50%                 | 100KHz/5mV        | 0.13 Max.       | 1.2                         | 600                 | 5-50                | 50                       | 10M         |
| FLCM0905C-471Y | 470 ±50%                 | 100KHz/5mV        | 0.14 Max.       | 1.1                         | 800                 | 1-50                | 50                       | 10M         |
| FLCM0905C-501Y | 500 ±50%                 | 100KHz/5mV        | 0.15 Max.       | 1.0                         | 900                 | 1-40                | 50                       | 10M         |
| FLCM0905C-102Y | 1000 ±50%                | 100KHz/5mV        | 0.31 Max.       | 0.8                         | 1000                | 1-30                | 50                       | 10M         |
| FLCM0905C-202Y | 2000 ±50%                | 100KHz/5mV        | 0.42 Max        | 0.6                         | 3000                | 1-10                | 50                       | 10M         |
| FLCM0905C-472Y | 4700 ±50%                | 100KHz/5mV        | 0.90 Max.       | 0.4                         | 3000                | 0.5-5               | 50                       | 10M         |
| FLCM0905C-652Y | 6500 ±50%                | 100KHz/5mV        | 1.05 Max.       | 0.3                         | 4000                | 0.3-2               | 50                       | 10M         |

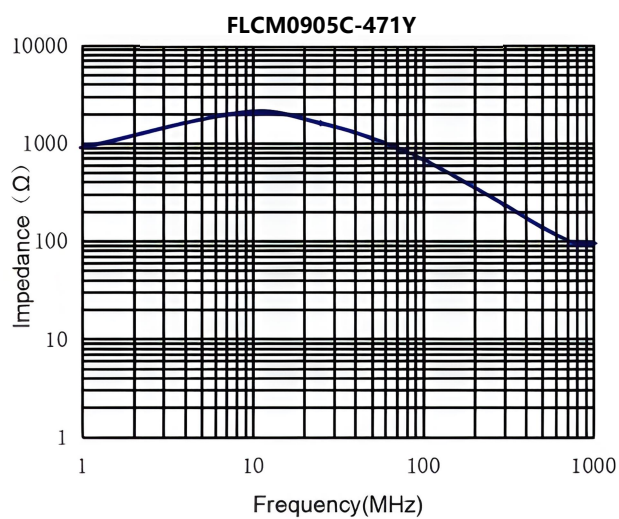
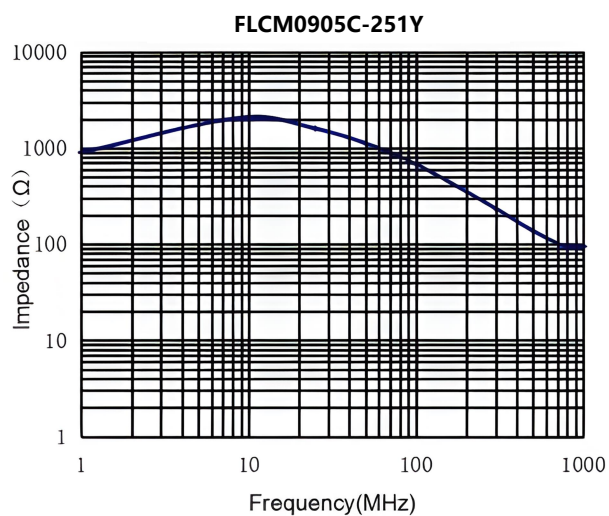
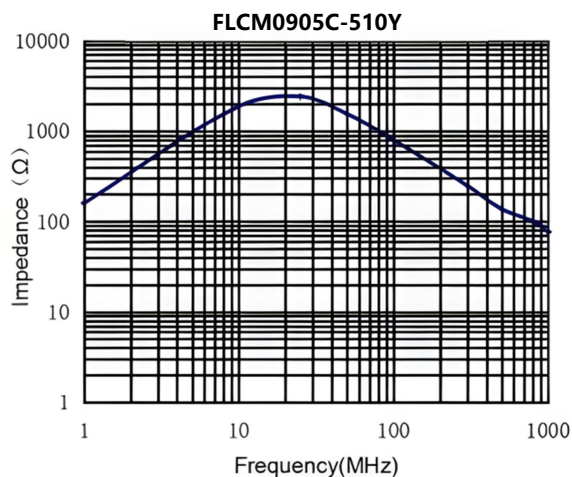
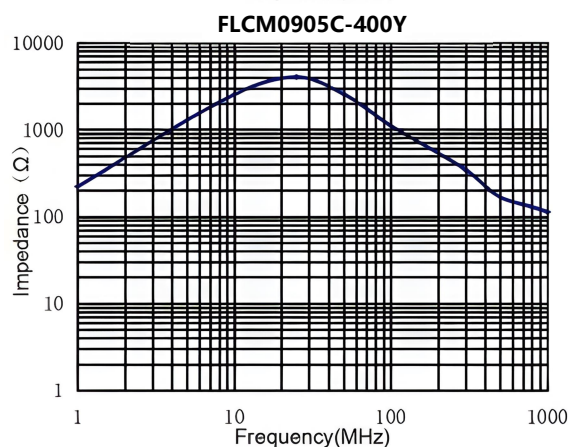
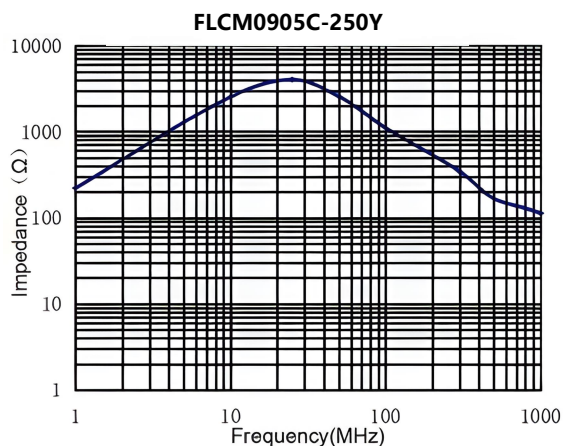
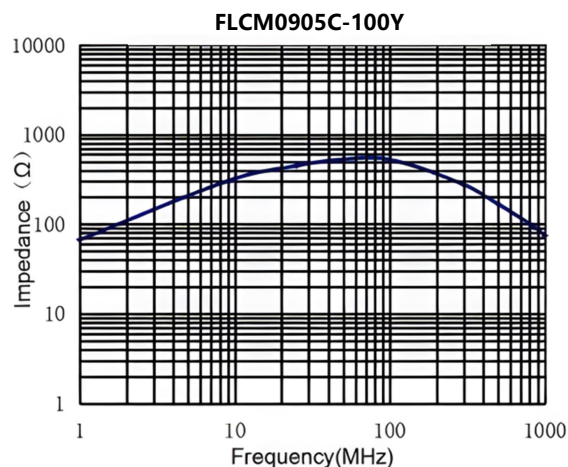
(1) .Rated Current: Temp. rise 40°C TYP

(2) .Operating Temperature: -40 °C up to + 125°C

## Common Mode Line Filte FLCM - 0905C Series

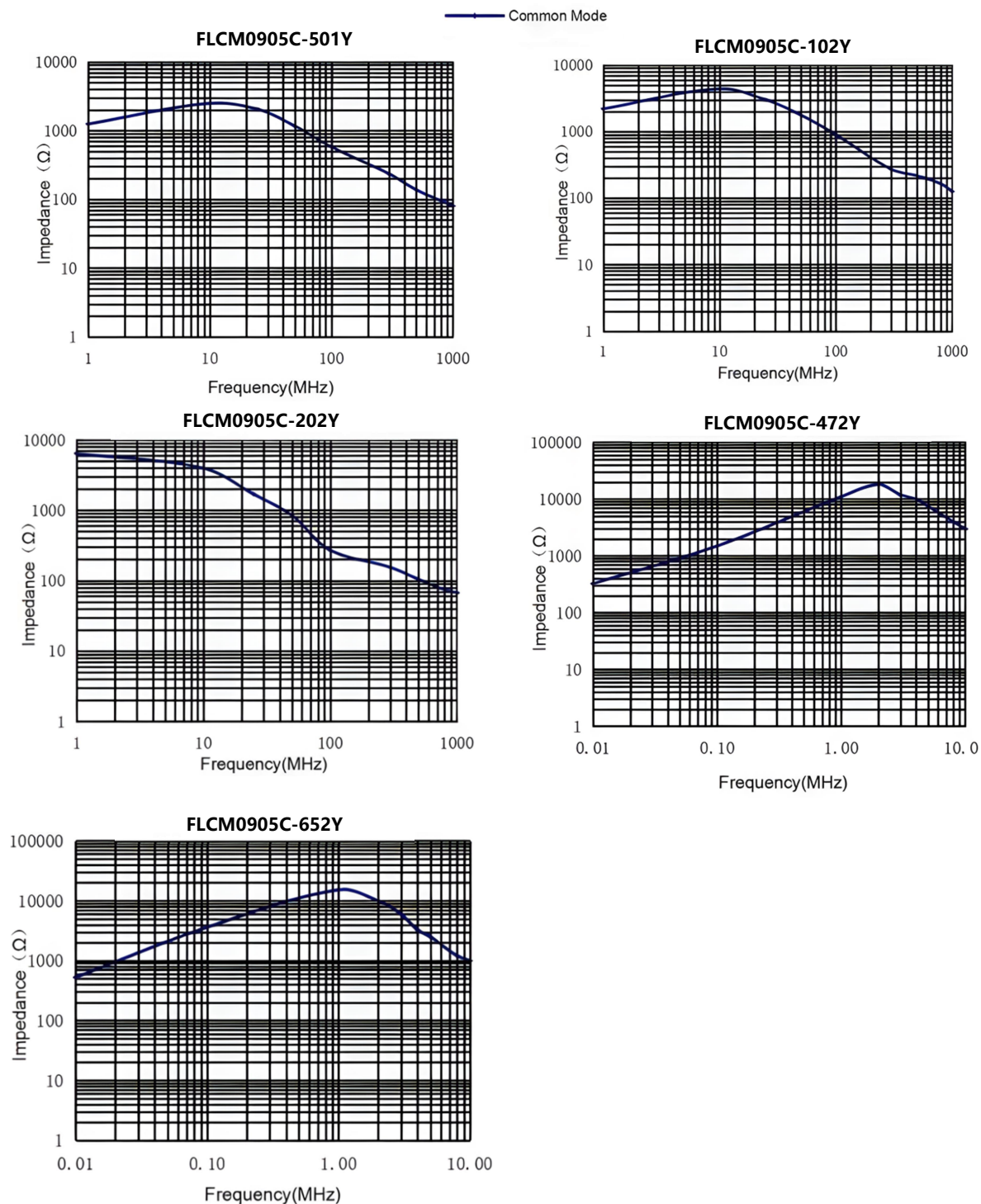
### CHARACTERISTICS(REFERENCE )

— Common Mode



## Common Mode Line Filte FLCM - 0905C Series

### CHARACTERISTICS(REFERENCE )



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