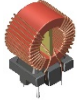


## THT Wire Wound Common Mode Choke---CMC Series



### Feature

- Broadband filtering due to low capacitance winding technique.
- High suppression of asymmetrical interferences also at low frequency range.
- Very compact design.
- Highest possible rated current by small size.
- Flammability corresponding to UL 94 V-0.
- Certified according to IEC 60938-2.
- Operating temperature range  $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$  (Including self - temperature rise).

### Application

- Power electronics.
- Power line input and output filter.
- Filtering of devices without any ground connection.
- Suppression of radio interferences in motors.
- Suppression of common mode noise.

### Production identification

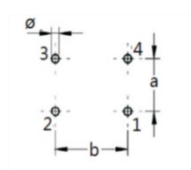
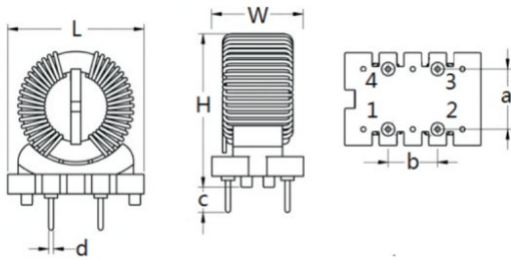
CMC     1678     -     470     N  
 ①            ②                            ③            ④

- ① Series name: THT Common Mode Choke
- ② Size:  $16 \times 7.8 \times 18\text{mm}$
- ③ Inductance:  $47\mu\text{H}$
- ④ Tolerance:  $\pm 30\%$

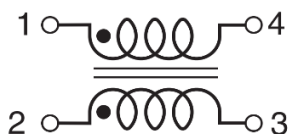
### Series Shape and Dimensions (Unit:mm)

Dimensions(mm):

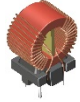
Recommended Layout:



Schematic:



# THT Wire Wound Common Mode Choke---CMC Series



## Series Shape and Dimensions (Unit:mm)

| Series  | Mechanical Dimensions(mm) |                  |                  |          |          |         |                  | Land Pattern(mm) |      |     | SPQ |
|---------|---------------------------|------------------|------------------|----------|----------|---------|------------------|------------------|------|-----|-----|
|         | L <sub>Max</sub>          | W <sub>Max</sub> | H <sub>Max</sub> | a        | b        | c       | d <sub>Typ</sub> | a                | b    | ∅   |     |
| CMC1678 | 16                        | 7.8              | 18               | 4.5±0.5  | 10±0.5   | 2.5±0.5 | 0.7              | 4.5              | 10.0 | 0.9 | 300 |
| CMC1915 | 19                        | 15               | 22               | 5.0±0.5  | 7.7±0.5  | 3.5±0.5 | 0.9              | 5.0              | 7.7  | 1.1 | 150 |
| CMC2517 | 25                        | 17               | 27               | 10.7±0.5 | 7.5±0.5  | 3.0±0.5 | 0.7              | 10.7             | 7.5  | 0.9 | 100 |
| CMC2819 | 28                        | 19               | 33               | 12±0.5   | 10±0.5   | 5.0±0.5 | 1.0              | 12.0             | 10.0 | 1.3 | 100 |
| CMC3122 | 31                        | 22               | 35               | 15±0.5   | 25±0.5   | 5.0±0.5 | 1.0              | 15.0             | 25.0 | 1.3 | 100 |
| CMC4724 | 47                        | 24               | 43               | 18.5±0.5 | 10.5±0.5 | 3.0±0.5 | 1.5-2.5          | 18.5             | 10.5 | 3.0 | 100 |

## CMC1678 Electrical Characteristics

| Part Number  | L(μH) | I <sub>R</sub> (A) | DCR(mΩ) | U <sub>R</sub> (Vac) | U <sub>T</sub> (Vac) | Core Material | Test Condition |
|--------------|-------|--------------------|---------|----------------------|----------------------|---------------|----------------|
| CMC1678-102N | 1000  | 2.0                | 45      | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC1678-402N | 4000  | 1.5                | 140     | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC1678-502N | 5000  | 1.0                | 220     | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC1678-103N | 10000 | 0.7                | 350     | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC1678-203N | 20000 | 0.5                | 1000    | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC1678-393N | 39000 | 0.3                | 3000    | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |

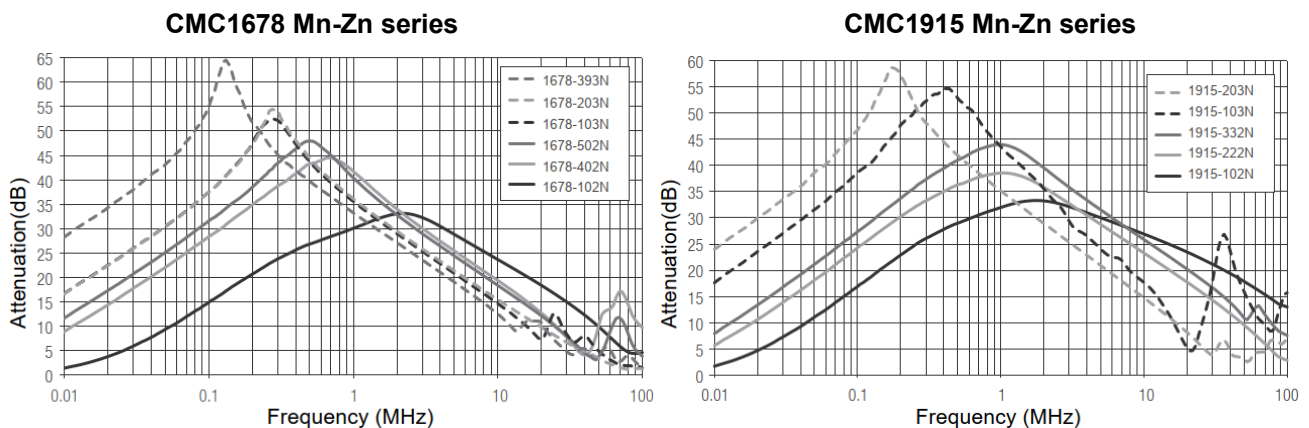
L: Inductance; I<sub>R</sub>: Rated Current; U<sub>R</sub>: Rated Voltage; U<sub>T</sub>: Insulation Test Voltage

## CMC1915 Electrical Characteristics

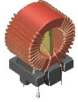
| Part Number  | L(μH) | I <sub>R</sub> (A) | DCR(mΩ) | U <sub>R</sub> (Vac) | U <sub>T</sub> (Vac) | Core Material | Test Condition |
|--------------|-------|--------------------|---------|----------------------|----------------------|---------------|----------------|
| CMC1915-102N | 1000  | 3.0                | 35      | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC1915-222N | 2200  | 2.0                | 70      | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC1915-332N | 3300  | 1.5                | 120     | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC1915-103N | 10000 | 1.0                | 360     | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC1915-203N | 20000 | 0.5                | 540     | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |

L: Inductance; I<sub>R</sub>: Rated Current; U<sub>R</sub>: Rated Voltage; U<sub>T</sub>: Insulation Test Voltage

## Typical Electrical Graphs



## THT Wire Wound Common Mode Choke---CMC Series



### CMC2517 Electrical Characteristics

| Part Number  | L( $\mu$ H) | I <sub>R</sub> (A) | DCR(m $\Omega$ ) | U <sub>R</sub> (Vac) | U <sub>T</sub> (Vac) | Core Material | Test Condition |
|--------------|-------------|--------------------|------------------|----------------------|----------------------|---------------|----------------|
| CMC2517-102N | 1000        | 6.0                | 13               | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC2517-222N | 2200        | 4.0                | 30               | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC2517-332N | 3300        | 2.5                | 60               | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC2517-502N | 5000        | 2.5                | 95               | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC2517-103N | 10000       | 2.0                | 125              | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC2517-203N | 20000       | 1.5                | 270              | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |

L: Inductance; I<sub>R</sub>: Rated Current; U<sub>R</sub>: Rated Voltage; U<sub>T</sub>: Insulation Test Voltage

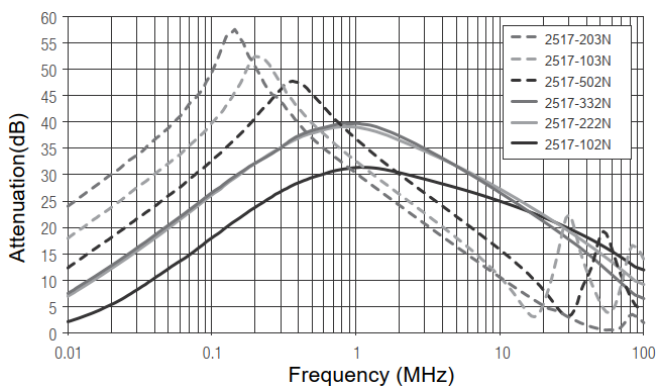
### CMC2819 Electrical Characteristics

| Part Number  | L( $\mu$ H) | I <sub>R</sub> (A) | DCR(m $\Omega$ ) | U <sub>R</sub> (Vac) | U <sub>T</sub> (Vac) | Core Material | Test Condition |
|--------------|-------------|--------------------|------------------|----------------------|----------------------|---------------|----------------|
| CMC2819-102N | 1000        | 10                 | 7                | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC2819-222N | 2200        | 6.0                | 20               | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC2819-332N | 3300        | 4.0                | 35               | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC2819-103N | 10000       | 3.0                | 105              | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC2819-203N | 20000       | 2.0                | 220              | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |

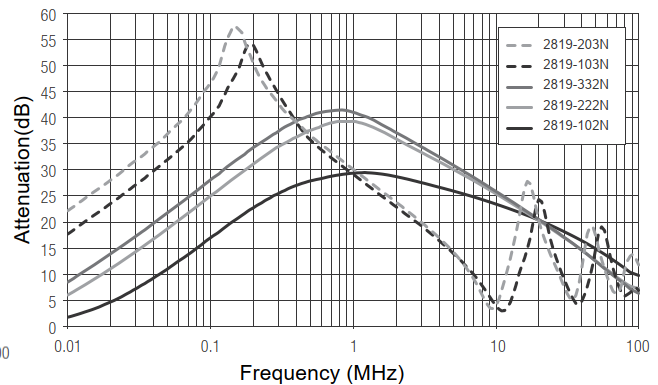
L: Inductance; I<sub>R</sub>: Rated Current; U<sub>R</sub>: Rated Voltage; U<sub>T</sub>: Insulation Test Voltage

### Typical Electrical Graphs

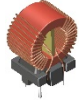
CMC2517 Mn-Zn series



CMC2819 Mn-Zn series



## THT Wire Wound Common Mode Choke---CMC Series



### CMC3122 Electrical Characteristics

| Part Number  | L( $\mu$ H) | I <sub>R</sub> (A) | DCR(m $\Omega$ ) | U <sub>R</sub> (Vac) | U <sub>T</sub> (Vac) | Core Material | Test Condition |
|--------------|-------------|--------------------|------------------|----------------------|----------------------|---------------|----------------|
| CMC3122-102N | 1000        | 12                 | 9                | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC3122-222N | 2200        | 8.0                | 14               | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC3122-332N | 3300        | 6.0                | 25               | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC3122-502N | 5000        | 6.0                | 45               | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC3122-103N | 10000       | 5.0                | 55               | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC3122-203N | 20000       | 3.0                | 160              | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC3122-333N | 33000       | 3.0                | 210              | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |

L: Inductance; I<sub>R</sub>: Rated Current; U<sub>R</sub>: Rated Voltage; U<sub>T</sub>: Insulation Test Voltage

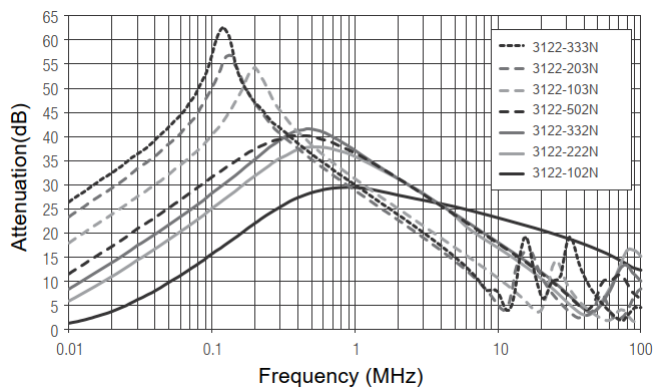
### CMC4724 Electrical Characteristics

| Part Number  | L( $\mu$ H) | I <sub>R</sub> (A) | DCR(m $\Omega$ ) | U <sub>R</sub> (Vac) | U <sub>T</sub> (Vac) | Core Material | Test Condition |
|--------------|-------------|--------------------|------------------|----------------------|----------------------|---------------|----------------|
| CMC4724-501N | 500         | 35                 | 2.3              | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC4724-102N | 1000        | 25                 | 4.5              | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC4724-132N | 1300        | 20                 | 6.2              | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |
| CMC4724-182N | 1800        | 14                 | 9.5              | 250                  | 1500                 | Mn-Zn         | 10KHz/0.25V    |

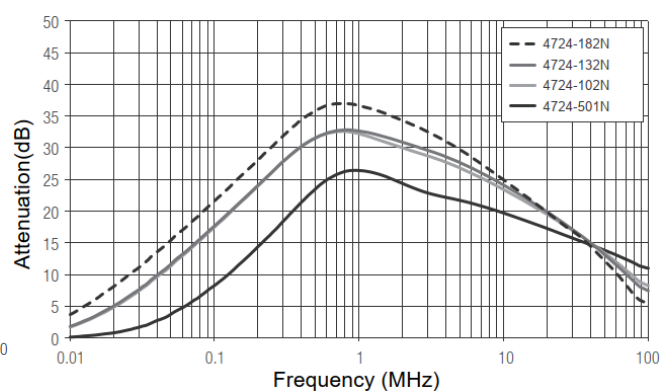
L: Inductance; I<sub>R</sub>: Rated Current; U<sub>R</sub>: Rated Voltage; U<sub>T</sub>: Insulation Test Voltage

### Typical Electrical Graphs

CMC3122 Mn-Zn series



CMC4724 Mn-Zn series



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