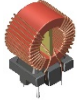


THT Wire Wound Common Mode Choke---CMC Series



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.

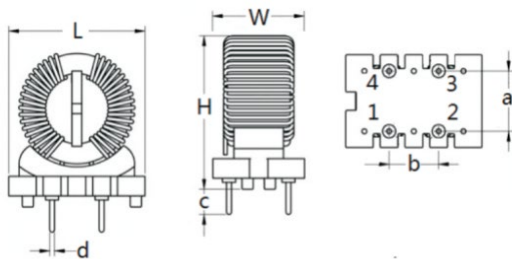
Production identification

CMC 1678 - 470 N
 ① ② ③ ④

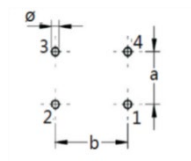
- ① Series name: THT Common Mode Choke
- ② Size: $16 \times 7.8 \times 18\text{mm}$
- ③ Inductance: $47\mu\text{H}$
- ④ Tolerance: $\pm 30\%$

Series Shape and Dimensions (Unit:mm)

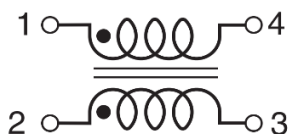
Dimensions(mm):



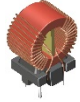
Recommended Layout:



Schematic:



THT Wire Wound Common Mode Choke---CMC Series



Series Shape and Dimensions (Unit:mm)

| Series | Mechanical Dimensions(mm) | | | | | | | Land Pattern(mm) | | | SPQ |
|---------|---------------------------|------------------|------------------|----------|----------|---------|------------------|------------------|------|-----|-----|
| | L _{Max} | W _{Max} | H _{Max} | a | b | c | d _{Typ} | 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 _R (A) | DCR(mΩ) | U _R (Vac) | U _T (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 |

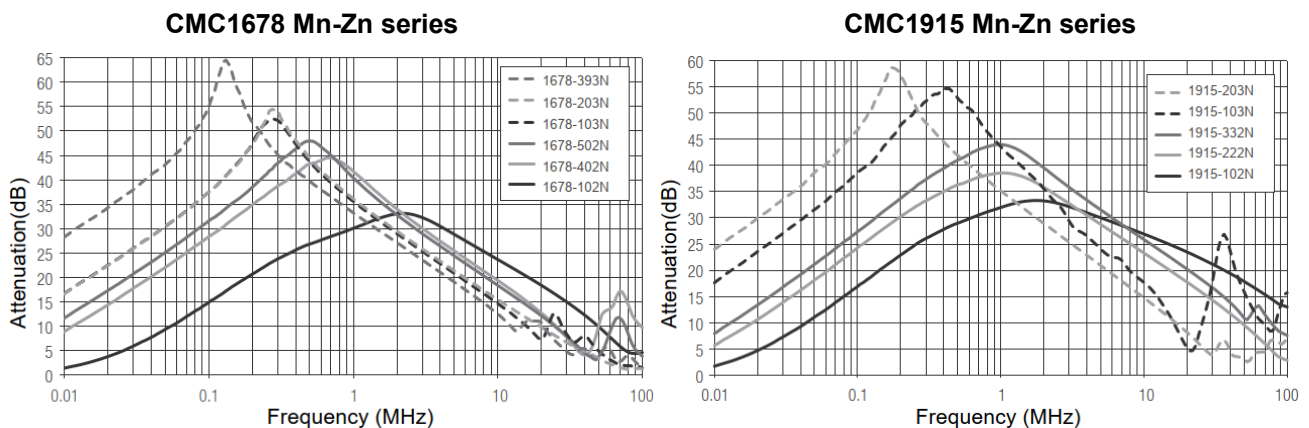
L: Inductance; I_R: Rated Current; U_R: Rated Voltage; U_T: Insulation Test Voltage

CMC1915 Electrical Characteristics

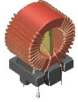
| Part Number | L(μH) | I _R (A) | DCR(mΩ) | U _R (Vac) | U _T (Vac) | Core Material | Test Condition |
|--------------|-------|--------------------|---------|----------------------|----------------------|---------------|----------------|
| CMC1915-102N | 1000 | 3.0 | 35 | 250 | 1500 | Mn-Zn | 10KHz/0.25V |
| 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_R: Rated Current; U_R: Rated Voltage; U_T: Insulation Test Voltage

Typical Electrical Graphs



THT Wire Wound Common Mode Choke---CMC Series



CMC2517 Electrical Characteristics

| Part Number | L(μ H) | I _R (A) | DCR(m Ω) | U _R (Vac) | U _T (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_R: Rated Current; U_R: Rated Voltage; U_T: Insulation Test Voltage

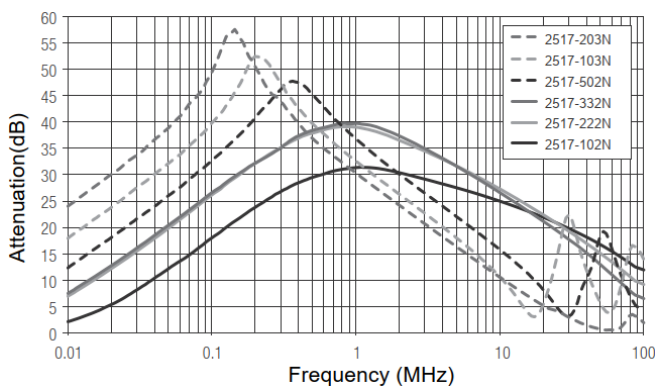
CMC2819 Electrical Characteristics

| Part Number | L(μ H) | I _R (A) | DCR(m Ω) | U _R (Vac) | U _T (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 |

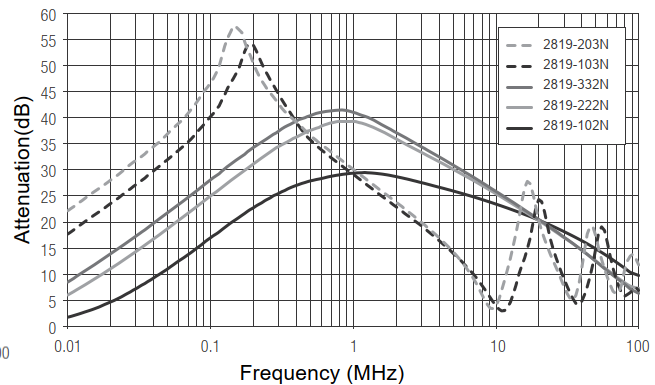
L: Inductance; I_R: Rated Current; U_R: Rated Voltage; U_T: Insulation Test Voltage

Typical Electrical Graphs

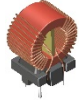
CMC2517 Mn-Zn series



CMC2819 Mn-Zn series



THT Wire Wound Common Mode Choke---CMC Series



CMC3122 Electrical Characteristics

| Part Number | L(μ H) | I _R (A) | DCR(m Ω) | U _R (Vac) | U _T (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_R: Rated Current; U_R: Rated Voltage; U_T: Insulation Test Voltage

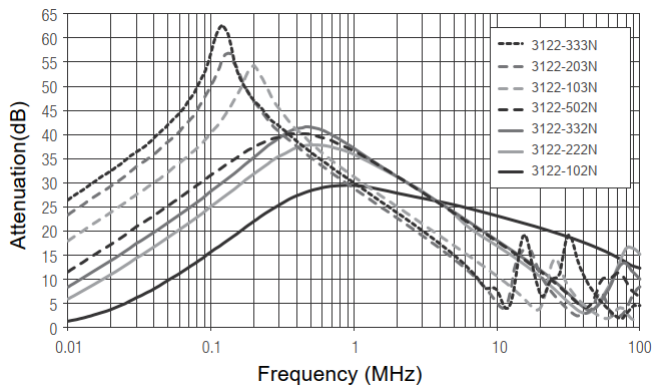
CMC4724 Electrical Characteristics

| Part Number | L(μ H) | I _R (A) | DCR(m Ω) | U _R (Vac) | U _T (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 |

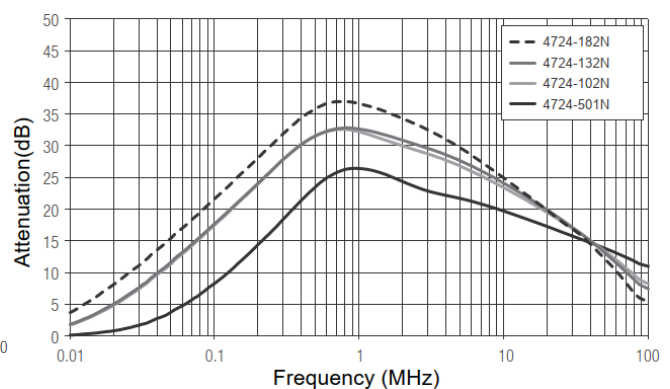
L: Inductance; I_R: Rated Current; U_R: Rated Voltage; U_T: Insulation Test Voltage

Typical Electrical Graphs

CMC3312 Mn-Zn series



CMC4724 Mn-Zn series



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