

# Wire-wound SMD Common Mode Choke-TRCM Series

This Wire-wound SMD Common Mode Choke features compact thin design, mini size and high integration. It provides high common-mode impedance in high frequency range, effectively suppressing high-speed line common-mode noise and improving system anti-interference ability.



## Features

- High common-mode impedance at high frequency for excellent noise suppression.
- Compact, small size, thin profile.
- Lead-free, halogen-free, RoHS compliant.

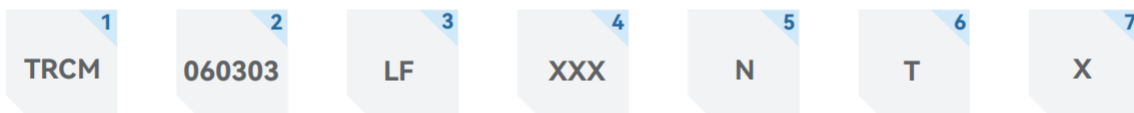
## Applications

- Power switches & servers
- Telecom applications
- USB communication
- LCD panel link

## Operating Temp

- -40°C~+105°C

## Product Identification



| 1    | Product Symbol    |
|------|-------------------|
| TRCM | Common mode choke |

| 2      | External Dimensions(mm) |
|--------|-------------------------|
| 060303 | 6.0*3.3*3.3             |
| 070402 | 6.5*3.6*1.65            |
| 090605 | 9.2*6.0*5.0             |
| 950605 | 9.5*5.6*5.2             |
| 090703 | 9.4*7.2*2.6             |
| 100805 | 8.4*9.5*5.15            |
| 100907 | 10.0*8.7*6.5            |
| 121208 | 11.5*11.5*7.5           |
| 141308 | 13.5*13.0*7.5           |
| 161409 | 14.22*16.4*8.9          |
| 201710 | 17.02*19.56*9.9         |

| 3  | Internal Code       |
|----|---------------------|
| LF | Ferrite(Inductance) |

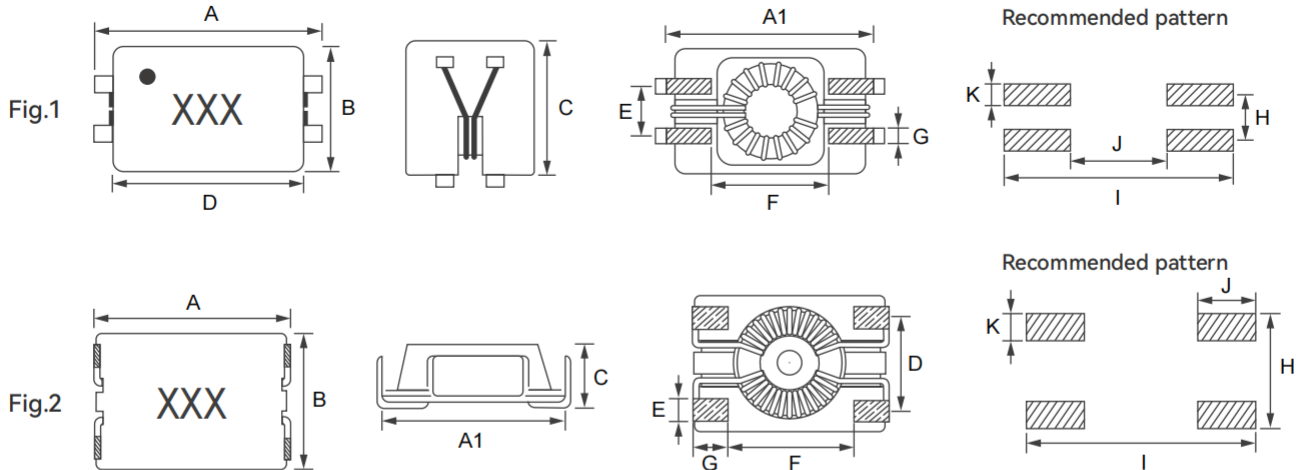
| 4   | Nominal Inductance |
|-----|--------------------|
| 110 | 11μH               |
| 101 | 100μH              |
| 102 | 1000μH             |
| 103 | 10000μH            |

| 5 | Tolerance          |
|---|--------------------|
| N | Nominal Inductance |

| 6 | Packing              |
|---|----------------------|
| T | Tape Carrier Package |

| 7 | Internal Code |
|---|---------------|
| A | Standard      |
| B | Special       |

## Shape and Dimensions



| Dimensions   |         |        |          |           |          |          |         |        |      |     |     |      | Unit:mm |
|--------------|---------|--------|----------|-----------|----------|----------|---------|--------|------|-----|-----|------|---------|
| Series       | A       | A1     | B        | C         | D        | E        | F       | G      | H    | I   | J   | K    | Shape   |
| TRCM060303LF | 6.0±0.3 | 5.4Typ | 3.3±0.3  | 3.3±0.3   | 5.0±0.3  | 1.3Typ   | 3.1Typ  | 0.4Typ | 1.27 | 6.4 | 2.7 | 0.6  | Fig.1   |
| TRCM070402LF | 6.5 Max | 6.0Typ | 3.6±0.15 | 1.65±0.15 | 2.5±0.15 | 0.55±0.1 | 3.4±0.2 | 0.8Typ | 3.35 | 6.6 | 1.5 | 0.85 | Fig.2   |

## Specification

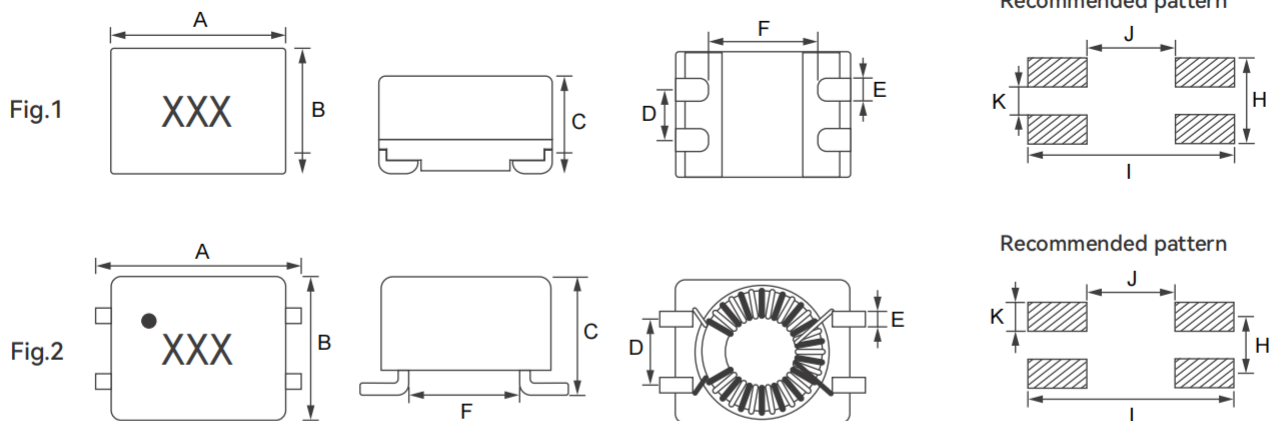
| TRCM060303LF Series |            |           |               |                      |                    |                    |                  |
|---------------------|------------|-----------|---------------|----------------------|--------------------|--------------------|------------------|
| Part Number         | Inductance | Impedance | DC Resistance | Rated Current        | Rated Voltage      | Hi-Pot             | L Test Frequency |
|                     | L(μH)      | Z(Ω)      | DCR(mΩ)       | I <sub>rms</sub> (A) | (V <sub>dc</sub> ) | (V <sub>dc</sub> ) |                  |
|                     | +50%-30%   | Typ.      | Max.          | Max.                 | Typ.               | 3mA/1S             |                  |
| TRCM060303LF110NTA  | 11         | 800       | 180.00        | 0.30                 | 80.00              | 250                | @10kHz/0.1V      |
| TRCM060303LF220NTA  | 22         | 1500      | 230.00        | 0.30                 | 80.00              | 250                | @10kHz/0.1V      |
| TRCM060303LF330NTA  | 33         | 2000      | 270.00        | 0.30                 | 80.00              | 250                | @10kHz/0.1V      |
| TRCM060303LF510NTA  | 51         | 2500      | 320.00        | 0.30                 | 80.00              | 250                | @10kHz/0.1V      |
| TRCM060303LF101NTA  | 100        | 4000      | 580.00        | 0.30                 | 80.00              | 250                | @10kHz/0.1V      |
| TRCM060303LF471NTA  | 470        | 2200      | 350.00        | 0.30                 | 80.00              | 250                | @10kHz/0.1V      |

| TRCM070402LF Series |            |           |               |               |               |      |        |                  |
|---------------------|------------|-----------|---------------|---------------|---------------|------|--------|------------------|
| Part Number         | Inductance | Impedance | DC Resistance | Rated Current | Rated Voltage | Lk   | Hi-Pot | L Test Frequency |
|                     | L(μH)      | Z(Ω)      | DCR(mΩ)       | Irms(A)       | Vdc(V)        | (μH) | (Vdc)  |                  |
|                     | +50%       | Typ.      | Max.          | Max.          | Typ.          | Typ. | 3mA/1S |                  |
| TRCM070402LF100NTA  | 10         | 1200      | 240.00        | 0.30          | 80.00         | 0.58 | 250    | @10kHz/0.1V      |
| TRCM070402LF470NTA  | 47         | 300       | 160.00        | 0.30          | 80.00         | 0.28 | 250    | @10kHz/0.1V      |
| TRCM070402LF510NTA  | 51         | 300       | 160.00        | 0.30          | 80.00         | 0.27 | 250    | @10kHz/0.1V      |
| TRCM070402LF820NTA  | 82         | 440       | 200.00        | 0.30          | 80.00         | 0.37 | 250    | @10kHz/0.1V      |
| TRCM070402LF101NTA  | 100        | 500       | 220.00        | 0.30          | 80.00         | 0.53 | 250    | @10kHz/0.1V      |
| TRCM070402LF181NTA  | 180        | 1000      | 250.00        | 0.30          | 80.00         | 0.76 | 250    | @10kHz/0.1V      |
| TRCM070402LF221NTA  | 220        | 1200      | 280.00        | 0.30          | 80.00         | 0.95 | 250    | @10kHz/0.1V      |
| TRCM070402LF331NTA  | 330        | 2000      | 300.00        | 0.30          | 80.00         | 1.30 | 250    | @10kHz/0.1V      |

### Notes

- Rated Current: Temp.rise 40°C Typ.
- Operating Temperature: -40°C up to +105°C.
- Storage Temperature: 15°C up to 25°C, 65% RH max.
- The temperature of electrical characteristic test is 25°C indoor temperature.

## Shape and Dimensions



| Dimensions   |         |         |         |          |         |         |          |          |         |          | Unit:mm |
|--------------|---------|---------|---------|----------|---------|---------|----------|----------|---------|----------|---------|
| Series       | A       | B       | C       | D        | E       | F       | H        | I        | J       | K        | Shape   |
| TRCM090605LF | 9.2±0.3 | 6.0±0.3 | 5.0±0.3 | 2.54±0.2 | 1.0±0.1 | 5.7 Typ | 3.74Typ  | 9.5 Typ  | 5.5 Typ | 1.34 Typ | Fig.1   |
| TRCM950605LF | 9.5 Max | 5.6 Max | 5.2 Max | 2.54±0.5 | 0.5 Typ | 5.5 Typ | 2.54 Typ | 10.5 Typ | 4.5 Typ | 1.0 Typ  | Fig.2   |

## Specification

| TRCM090605LF Series |            |           |               |                      |       |        |               |                  |         |  |
|---------------------|------------|-----------|---------------|----------------------|-------|--------|---------------|------------------|---------|--|
| Part Number         | Inductance | Impedance | DC Resistance | Rated Current        | Lk    | Hi-Pot | Z Freq. Range | L Test Frequency | Winding |  |
|                     | L(μH)      | Z(Ω)      | DCR(mΩ)       | I <sub>rms</sub> (A) | (μH)  | (Vdc)  | (MHz)         |                  |         |  |
|                     | +50%/-30%  | Min.      | Max.          | Max.                 | Typ.  | 3mA/3S | /             |                  |         |  |
| TRCM090605LF100NTB  | 10         | 300.00    | 80.00         | 1.60                 | 0.055 | 500    | 20-200        | @1KHz/0.1V       | Bifilar |  |
| TRCM090605LF100NTA  | 10         | 300.00    | 80.00         | 1.60                 | 0.85  | 500    | 20-200        | @1KHz/0.1V       | Sector  |  |
| TRCM090605LF250NTB  | 25         | 600.00    | 160.00        | 1.00                 | 0.06  | 500    | 5-100         | @1KHz/0.1V       | Bifilar |  |
| TRCM090605LF250NTA  | 25         | 600.00    | 160.00        | 1.00                 | 1.50  | 500    | 5-100         | @1KHz/0.1V       | Sector  |  |
| TRCM090605LF400NTB  | 40         | 800.00    | 250.00        | 0.90                 | 0.08  | 500    | 5-100         | @1KHz/0.1V       | Bifilar |  |
| TRCM090605LF400NTA  | 40         | 800.00    | 250.00        | 0.90                 | 2.25  | 500    | 5-100         | @1KHz/0.1V       | Sector  |  |
| TRCM090605LF510NTB  | 51         | 1000.00   | 160.00        | 0.80                 | 0.085 | 500    | 5-50          | @1KHz/0.1V       | Bifilar |  |
| TRCM090605LF510NTA  | 51         | 1000.00   | 160.00        | 0.80                 | 3.15  | 500    | 5-50          | @1KHz/0.1V       | Sector  |  |
| TRCM090605LF251NTB  | 250±50%    | 600.00    | 130.00        | 1.20                 | 0.06  | 500    | 5-50          | @100KHz/0.1V     | Bifilar |  |
| TRCM090605LF251NTA  | 250±50%    | 600.00    | 130.00        | 1.20                 | 1.10  | 500    | 5-50          | @100KHz/0.1V     | Sector  |  |
| TRCM090605LF471NTB  | 470±50%    | 800.00    | 140.00        | 1.10                 | 0.072 | 500    | 1-50          | @100KHz/0.1V     | Bifilar |  |
| TRCM090605LF501NTB  | 500±50%    | 900.00    | 150.00        | 1.00                 | 0.075 | 500    | 1-40          | @100KHz/0.1V     | Bifilar |  |
| TRCM090605LF102NTB  | 1000±50%   | 1000.00   | 310.00        | 0.80                 | 0.09  | 500    | 1-30          | @100KHz/0.1V     | Bifilar |  |
| TRCM090605LF202NTB  | 2000±50%   | 3000.00   | 420.00        | 0.60                 | 0.13  | 500    | 1-10          | @100KHz/0.1V     | Bifilar |  |
| TRCM090605LF202NTA  | 2000±50%   | 3000.00   | 420.00        | 0.60                 | 5.50  | 500    | 1-10          | @10KHz/5mV       | Sector  |  |
| TRCM090605LF472NTB  | 4700±50%   | 3000.00   | 900.00        | 0.40                 | 0.18  | 500    | 0.5-5         | @100KHz/0.1V     | Bifilar |  |
| TRCM090605LF652NTB  | 6500±50%   | 4000.00   | 1050.00       | 0.30                 | 0.28  | 500    | 0.3-2         | @100KHz/0.1V     | Bifilar |  |
| TRCM090605LF103NTB  | 10000±50%  | 4000.00   | 1150.00       | 0.26                 | 0.32  | 500    | 0.3-2         | @10KHz/0.1V      | Bifilar |  |

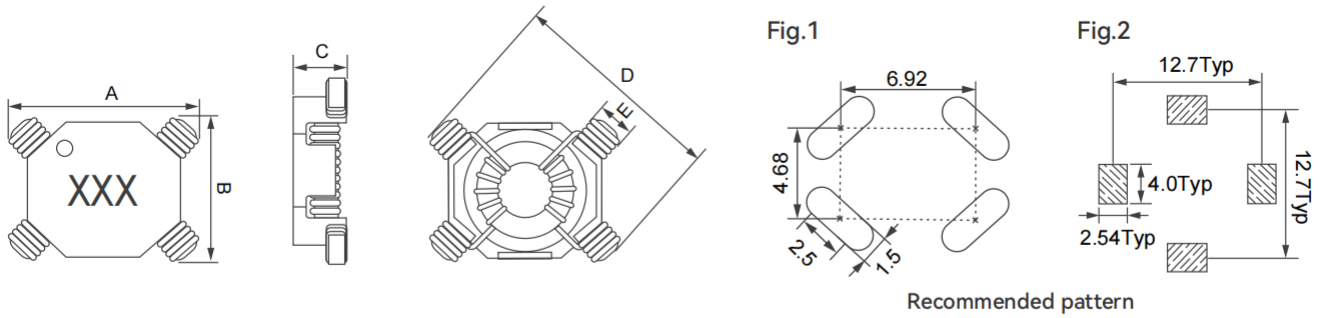
### TRCM950605LF Series

| Part Number        | Inductance | Impedance | DC Resistance | Rated Current        | Lk   | Hi-Pot | Z Freq. Range | L Test Frequency | Winding |
|--------------------|------------|-----------|---------------|----------------------|------|--------|---------------|------------------|---------|
|                    | L(μH)      | Z(Ω)      | DCR(mΩ)       | I <sub>rms</sub> (A) | (μH) | (Vdc)  | (MHz)         |                  |         |
|                    | +50%/-30%  | Min.      | Max.          | Max.                 | Typ. | 3mA/3S | /             |                  |         |
| TRCM950605LF6R0NTB | 6.0        | 300.00    | 100.00        | 2.50                 | 0.03 | 500    | 20-300        | @100KHz/0.1V     | Bifilar |
| TRCM950605LF100NTA | 10         | 160.00    | 120.00        | 0.50                 | 1.60 | 500    | 20-300        | @100KHz/0.1V     | Sector  |
| TRCM950605LF110NTB | 11         | 160.00    | 120.00        | 0.50                 | 0.08 | 500    | 20-300        | @100KHz/0.1V     | Bifilar |
| TRCM950605LF250NTB | 25         | 450.00    | 200.00        | 0.50                 | 0.15 | 500    | 20-150        | @100KHz/0.1V     | Bifilar |
| TRCM950605LF250NTA | 25         | 450.00    | 200.00        | 0.50                 | 1.50 | 500    | 20-150        | @100KHz/0.1V     | Sector  |
| TRCM950605LF400NTA | 40         | 800.00    | 250.00        | 0.80                 | 1.80 | 500    | 5-100         | @100KHz/0.1V     | Sector  |
| TRCM950605LF510NTB | 51         | 800.00    | 300.00        | 0.50                 | 0.20 | 500    | 20-100        | @100KHz/0.1V     | Bifilar |
| TRCM950605LF510NTA | 51         | 800.00    | 300.00        | 0.50                 | 2.00 | 500    | 20-100        | @100KHz/0.1V     | Sector  |
| TRCM950605LF101NTB | 100        | 600.00    | 100.00        | 0.50                 | 0.25 | 500    | 3-20          | @100KHz/0.1V     | Bifilar |
| TRCM950605LF101NTA | 100        | 600.00    | 100.00        | 0.50                 | 0.85 | 500    | 3-20          | @100KHz/0.1V     | Sector  |
| TRCM950605LF471NTB | 470        | 1200.00   | 280.00        | 0.50                 | 0.28 | 500    | 2-15          | @100KHz/0.1V     | Bifilar |
| TRCM950605LF471NTA | 470        | 1200.00   | 280.00        | 0.50                 | 0.75 | 500    | 2-15          | @100KHz/0.1V     | Sector  |
| TRCM950605LF731NTA | 730        | 1500.00   | 255.00        | 0.80                 | 0.65 | 500    | 2-15          | @100KHz/0.1V     | Sector  |
| TRCM950605LF102NTB | 1000       | 1800.00   | 300.00        | 0.50                 | 0.28 | 500    | 1-10          | @100KHz/0.1V     | Bifilar |
| TRCM950605LF102NTA | 1000       | 1800.00   | 300.00        | 0.50                 | 0.60 | 500    | 1-10          | @100KHz/0.1V     | Sector  |
| TRCM950605LF222NTB | 2200       | 3000.00   | 400.00        | 0.50                 | 0.29 | 500    | 0.8-5         | @100KHz/0.1V     | Bifilar |
| TRCM950605LF272NTB | 2700       | 1500.00   | 280.00        | 0.40                 | 0.30 | 500    | 0.8-5         | @100KHz/0.1V     | Bifilar |
| TRCM950605LF302NTB | 3000±40%   | 1500.00   | 520.00        | 0.35                 | 0.30 | 500    | 0.8-5         | @100KHz/0.1V     | Bifilar |
| TRCM950605LF472NTB | 4700       | 5000.00   | 700.00        | 0.20                 | 0.30 | 500    | 0.5-3         | @100KHz/0.1V     | Bifilar |

#### Notes

- Rated Current: Temp.rise 40°C Typ.
- Operating Temperature: -40°C up to +105°C.
- Storage Temperature: 15°C up to 25°C, 65% RH max.
- The temperature of electrical characteristic test is 25°C indoor temperature.

## Shape and Dimensions



| Dimensions   |          |          |         |          |        | Unit:mm |
|--------------|----------|----------|---------|----------|--------|---------|
| Series       | A        | B        | C       | D        | E      | Shape   |
| TRCM090703LF | 9.4 Max  | 7.2 Max  | 2.6 Max | /        | /      | Fig.1   |
| TRCM121208LF | 11.5±0.5 | 11.5±0.5 | 7.5 Max | 14.0±0.5 | 3.2Typ | Fig.2   |

## Specification

| TRCM090703LF Series |            |               |                      |      |        |                |
|---------------------|------------|---------------|----------------------|------|--------|----------------|
| Part Number         | Inductance | DC Resistance | Rated Current        | LK   | Hi-Pot | Test Frequency |
|                     | L(μH)      | DCR(mΩ)       | I <sub>rms</sub> (A) | (μH) | (Vdc)  |                |
|                     | Min.       | /             | Max.                 | Typ. | 3mA/1S |                |
| TRCM090703LF4R5NTA  | 4.5        | 9.0Typ.       | 5.50                 | 0.05 | 500    | @100KHz/0.1V   |
| TRCM090703LF8R0NTA  | 8.0        | 4.0Typ.       | 5.70                 | 0.09 | 500    | @100KHz/0.1V   |
| TRCM090703LF120NTA  | 12.6       | 12Typ.20Max.  | 4.10                 | 0.14 | 500    | @100KHz/0.1V   |
| TRCM090703LF180NTA  | 18         | 8.9Typ.       | 3.80                 | 0.20 | 500    | @100KHz/0.1V   |
| TRCM090703LF200NTA  | 20         | 9.3Typ.       | 3.70                 | 0.25 | 500    | @100KHz/0.1V   |
| TRCM090703LF250NTA  | 25         | 10.0Typ.      | 3.60                 | 0.28 | 500    | @100KHz/0.1V   |
| TRCM090703LF330NTA  | 32.8       | 13.8Typ.      | 3.10                 | 0.36 | 500    | @100KHz/0.1V   |
| TRCM090703LF410NTA  | 41.5       | 19.00         | 2.60                 | 0.45 | 500    | @100KHz/0.1V   |
| TRCM090703LF470NTA  | 47         | 23.00         | 2.50                 | 0.52 | 500    | @100KHz/0.1V   |
| TRCM090703LF510NTA  | 51.2       | 26.00         | 2.20                 | 0.56 | 500    | @100KHz/0.1V   |
| TRCM090703LF620NTA  | 62         | 35.00         | 1.90                 | 0.68 | 500    | @100KHz/0.1V   |
| TRCM090703LF730NTA  | 73.7       | 48.00         | 1.65                 | 0.81 | 500    | @100KHz/0.1V   |
| TRCM090703LF101NTA  | 100        | 70.00         | 1.35                 | 1.10 | 500    | @100KHz/0.1V   |
| TRCM090703LF131NTA  | 131        | 100.00        | 1.15                 | 1.45 | 500    | @100KHz/0.1V   |
| TRCM090703LF161NTA  | 166        | 138.00        | 1.00                 | 1.83 | 500    | @100KHz/0.1V   |
| TRCM090703LF201NTA  | 205        | 186.00        | 0.85                 | 2.25 | 500    | @100KHz/0.1V   |

### Notes

- Rated Current: Temp.rise 40°C Typ.
- Operating Temperature Range (Self-temperature rise is included): -40 to +125°C.
- Storage Temperature: 15°C up to 25°C, 65% RH max.
- The temperature of electrical characteristic test is 25 °C indoor temperature.

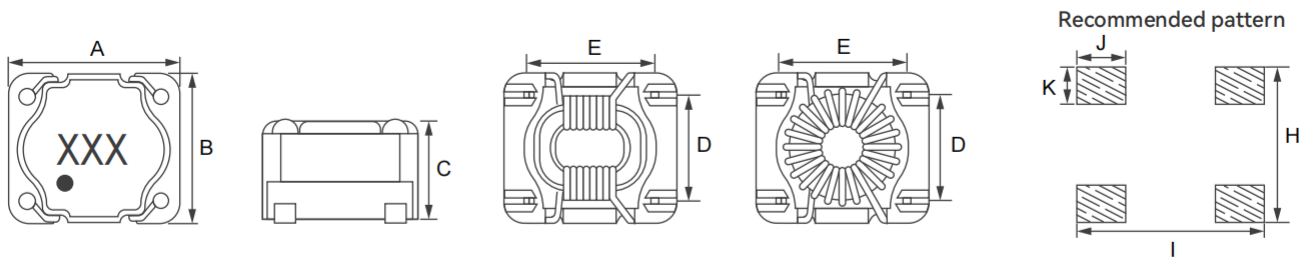
### TRCM121208LF Series

| Part Number        | Inductance | DC Resistance | Rated Current        | LK   | Hi-Pot | Test Frequency |
|--------------------|------------|---------------|----------------------|------|--------|----------------|
|                    | L(μH)      | DCR(mΩ)       | I <sub>rms</sub> (A) | (μH) | (Vdc)  |                |
|                    | Min.       | Max.          | Max.                 | Typ. | 3mA/1S |                |
| TRCM121208LF280NTA | 28         | 5.00          | 5.70                 | 0.31 | 500    | @100KHz/0.1V   |
| TRCM121208LF450NTA | 45         | 6.00          | 5.10                 | 0.46 | 500    | @100KHz/0.1V   |
| TRCM121208LF640NTA | 64         | 7.00          | 4.75                 | 0.64 | 500    | @100KHz/0.1V   |
| TRCM121208LF880NTA | 88         | 10.00         | 3.95                 | 0.85 | 500    | @100KHz/0.1V   |
| TRCM121208LF151NTA | 150        | 17.00         | 3.10                 | 1.30 | 500    | @100KHz/0.1V   |
| TRCM121208LF221NTA | 217        | 20.00         | 2.85                 | 1.90 | 500    | @100KHz/0.1V   |
| TRCM121208LF251NTA | 258        | 27.00         | 2.45                 | 2.20 | 500    | @100KHz/0.1V   |
| TRCM121208LF351NTA | 350        | 40.00         | 2.00                 | 3.00 | 500    | @100KHz/0.1V   |
| TRCM121208LF401NTA | 400        | 53.00         | 1.70                 | 3.30 | 500    | @100KHz/0.1V   |
| TRCM121208LF521NTA | 518        | 76.00         | 1.45                 | 4.20 | 500    | @100KHz/0.1V   |
| TRCM121208LF651NTA | 648        | 107.00        | 1.20                 | 5.10 | 500    | @100KHz/0.1V   |
| TRCM121208LF791NTA | 790        | 145.00        | 1.05                 | 6.10 | 500    | @100KHz/0.1V   |
| TRCM121208LF102NTA | 1030       | 210.00        | 0.88                 | 7.80 | 500    | @100KHz/0.1V   |
| TRCM121208LF132NTA | 1310       | 300.00        | 0.75                 | 9.60 | 500    | @100KHz/0.1V   |
| TRCM121208LF162NTA | 1600       | 130.00        | 2.30                 | 5.40 | 500    | @100KHz/0.1V   |

### Notes

- Rated Current: Temp.rise 40°C Typ.
- Operating Temperature: -40°C up to +105°C.
- Storage Temperature: 15°C up to 25°C, 65% RH max.
- The temperature of electrical characteristic test is 25°C indoor temperature.

## Shape and Dimensions



### Dimensions

Unit:mm

| Series       | A        | B       | C       | D        | E        | F       | H    | I     | J   | K   |
|--------------|----------|---------|---------|----------|----------|---------|------|-------|-----|-----|
| TRCM100907LF | 10.0±0.5 | 8.7±0.3 | 6.5 Max | 6.22 Typ | 7.62 Typ | 1.4 Typ | 8.92 | 10.32 | 2.7 | 2.7 |

## Specification

### TRCM100907LF Series

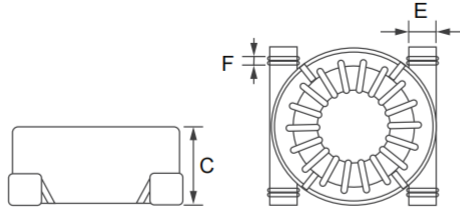
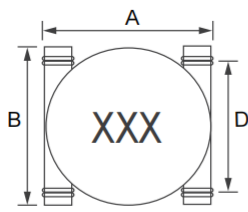
| Part Number        | Inductance | Impedance | DC Resistance | Rated Current        | Z Freq. Range | Hi-Pot | L Test Frequency |
|--------------------|------------|-----------|---------------|----------------------|---------------|--------|------------------|
|                    | L(μH)      | Z(Ω)      | DCR(mΩ)       | I <sub>rms</sub> (A) | (MHz)         | (Vdc)  |                  |
|                    | ±40%       | Min.      | Max.          | Max.                 | /             | 3mA/3S |                  |
| TRCM100907LF5R0NTA | 5±50%      | 500 Max.  | 10.00         | 5.00                 | 108.00        | 500    | @100KHz/0.1V     |
| TRCM100907LF9R0NTA | 9±50%      | 800 Max.  | 11.00         | 3.50                 | 105.00        | 500    | @100KHz/0.1V     |
| TRCM100907LF100NTA | 10         | 100.00    | 30.00         | 4.00                 | 10~300        | 600    | @100KHz/0.1V     |
| TRCM100907LF220NTA | 22         | 300.00    | 35.00         | 3.80                 | 10~200        | 600    | @100KHz/0.1V     |
| TRCM100907LF470NTA | 47         | 800.00    | 40.00         | 3.20                 | 10~100        | 600    | @100KHz/0.1V     |
| TRCM100907LF600NTA | 60         | 300 Typ.  | 20.00         | 3.00                 | 10.00         | 1000   | @100KHz/0.1V     |
| TRCM100907LF101NTA | 100        | 100.00    | 25.00         | 3.00                 | 10~300        | 1000   | @100KHz/0.1V     |
| TRCM100907LF121NTA | 120        | 200.00    | 25.00         | 2.50                 | 10~200        | 1000   | @100KHz/0.1V     |
| TRCM100907LF201NTA | 200        | 300.00    | 32.00         | 3.00                 | 7~150         | 1000   | @100KHz/0.1V     |
| TRCM100907LF221NTA | 220        | 350.00    | 32.00         | 2.20                 | 7~150         | 1000   | @100KHz/0.1V     |
| TRCM100907LF251NTA | 250        | 400.00    | 35.00         | 2.00                 | 5~100         | 1000   | @100KHz/0.1V     |
| TRCM100907LF331NTA | 330        | 500.00    | 48.00         | 2.50                 | 5~100         | 1000   | @100KHz/0.1V     |
| TRCM100907LF471NTA | 470        | 900.00    | 65.00         | 1.60                 | 2~40          | 1000   | @100KHz/0.1V     |
| TRCM100907LF501NTA | 500        | 800.00    | 70.00         | 1.50                 | 2~50          | 1000   | @100KHz/0.1V     |
| TRCM100907LF102NTA | 1000       | 1400.00   | 180.00        | 0.95                 | 1~40          | 1000   | @100KHz/0.1V     |
| TRCM100907LF202NTA | 2000       | 2000.00   | 270.00        | 0.80                 | 0.5~15        | 300    | @100KHz/0.1V     |
| TRCM100907LF222NTA | 2200       | 3400.00   | 300.00        | 0.75                 | 1~11          | 300    | @100KHz/0.1V     |
| TRCM100907LF302NTA | 3000       | 3000.00   | 330.00        | 0.70                 | 0.5~10        | 300    | @100KHz/0.1V     |
| TRCM100907LF332NTA | 3300       | 4400.00   | 360.00        | 0.65                 | 0.9~7         | 300    | @100KHz/0.1V     |
| TRCM100907LF392NTA | 3900       | 5000.00   | 540.00        | 0.52                 | 0.7~6         | 300    | @100KHz/0.1V     |
| TRCM100907LF402NTA | 4000       | 4000.00   | 600.00        | 0.45                 | 0.5~5         | 300    | @100KHz/0.1V     |
| TRCM100907LF472NTA | 4700       | 6200.00   | 720.00        | 0.35                 | 0.6~3         | 300    | @100KHz/0.1V     |
| TRCM100907LF502NTA | 5000       | 5000.00   | 780.00        | 0.30                 | 0.5~3         | 300    | @100KHz/0.1V     |

### Notes

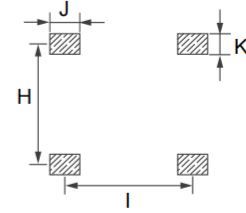
- Rated Current: Temp.rise 40°C Typ.
- Operating Temperature Range (Self-temperature rise is included): -40 to +125°C.
- Storage Temperature: 15°C up to 25°C, 65% RH max.
- The temperature of electrical characteristic test is 25°C indoor temperature.
- Winding method by model: for models 102 and below – square magnetic core with split winding; for models above 102 – round magnetic core with bifilar winding.



## Shape and Dimensions



Recommended pattern



### Dimensions

Unit:mm

| Series       | A       | B       | C       | D        | E       | F       | H    | I  | J   | K   |
|--------------|---------|---------|---------|----------|---------|---------|------|----|-----|-----|
| TRCM141308LF | 13.5Max | 13.0Max | 7.5 Max | 10.4 Typ | 2.5 Typ | 0.7 Typ | 10.4 | 10 | 4.2 | 1.5 |

## Specification

### TRCM141308LF Series

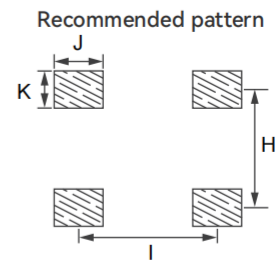
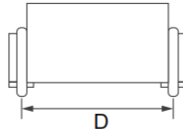
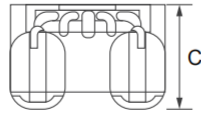
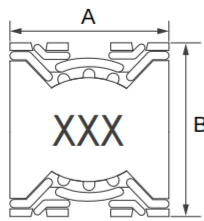
| Part Number        | Inductance | DC Resistance | Rated Current        | Hi-Pot             | Test Frequency |
|--------------------|------------|---------------|----------------------|--------------------|----------------|
|                    | L(μH)      | DCR(mΩ)       | I <sub>rms</sub> (A) | (V <sub>dc</sub> ) |                |
|                    | Min.       | Max.          | Max.                 | 3mA/1S             |                |
| TRCM141308LF260NTA | 26         | 100.00        | 2.50                 | 500                | @1KHz/0.25V    |
| TRCM141308LF270NTA | 27         | 22.00         | 2.00                 | 500                | @10KHz/0.1V    |
| TRCM141308LF600NTA | 60         | 100.00        | 1.50                 | 500                | @1KHz/0.25V    |
| TRCM141308LF181NTA | 180        | 14.00         | 2.50                 | 500                | @1KHz/0.25V    |
| TRCM141308LF301NTA | 300        | 30.00         | 2.00                 | 500                | @1KHz/0.25V    |
| TRCM141308LF331NTA | 330±35%    | 24.00         | 5.00                 | 500                | @100KHz/0.25V  |
| TRCM141308LF501NTA | 500        | 39.00         | 1.50                 | 500                | @10KHz/0.1V    |
| TRCM141308LF801NTA | 800±30%    | 27.00         | 3.50                 | 500                | @10KHz/0.02V   |
| TRCM141308LF881NTA | 880±30%    | 110.00        | 1.60                 | 500                | @10KHz/0.02V   |
| TRCM141308LF122NTA | 1200±35%   | 200.00        | 1.22                 | 500                | @100KHz/0.25V  |
| TRCM141308LF182NTA | 1800±30%   | 110.00        | 1.50                 | 500                | @100KHz/0.25V  |

### Notes

- Rated Current: Temp.rise 40°C Typ.
- Operating Temperature: -40°C up to +105°C.
- Storage Temperature: 15°C up to 25°C, 65% RH max.
- The temperature of electrical characteristic test is 25°C indoor temperature.



## Shape and Dimensions



### Dimensions

Unit:mm

| Series       | A         | B         | C       | D        | H     | I    | J    | K    |
|--------------|-----------|-----------|---------|----------|-------|------|------|------|
| TRCM161409LF | 14.22 Max | 16.40 Max | 8.9 Max | 13.2±0.4 | 13.46 | 8.64 | 4.45 | 1.52 |
| TRCM201710LF | 17.02 Max | 19.56 Max | 9.9 Max | 16.5±0.4 | 16.76 | 11.3 | 4.45 | 1.52 |

## Specification

### TRCM161409LF Series

| Part Number        | Inductance | DC Resistance | Rated Current        | SRF   | Insulation Resistance | Hi-Pot | Test Frequency |
|--------------------|------------|---------------|----------------------|-------|-----------------------|--------|----------------|
|                    | L(μH)      | DCR(mΩ)       | I <sub>rms</sub> (A) | (MHZ) | IR(MΩ)                | (Vdc)  |                |
|                    | ±35%       | Max.          | Max.                 | /     | 80V/3S Min.           | 3mA/1S |                |
| TRCM161409LF901NTA | 900        | 60.00         | 1.50                 | 3.0   | 10.00                 | 500    | @10KHz/0.1V    |
| TRCM161409LF122NTA | 1200       | 80.00         | 1.50                 | 2.0   | 10.00                 | 500    | @10KHz/0.1V    |
| TRCM161409LF352NTA | 3500       | 180.00        | 1.50                 | 0.5   | 10.00                 | 500    | @10KHz/0.1V    |
| TRCM161409LF602NTA | 6000       | 450.00        | 1.00                 | 0.3   | 10.00                 | 500    | @10KHz/0.1V    |
| TRCM161409LF133NTA | 13200      | 850.00        | 0.50                 | 0.2   | 10.00                 | 500    | @10KHz/0.1V    |

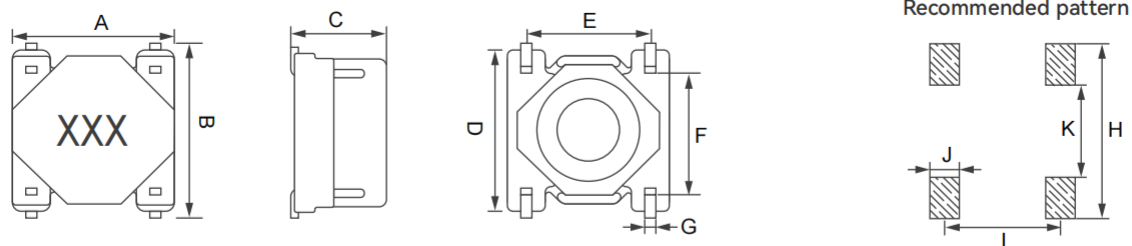
### TRCM201710LF Series

| Part Number        | Inductance | DC Resistance | Rated Current        | SRF   | Insulation Resistance | Hi-Pot | Test Frequency |
|--------------------|------------|---------------|----------------------|-------|-----------------------|--------|----------------|
|                    | L(μH)      | DCR(mΩ)       | I <sub>rms</sub> (A) | (MHZ) | IR(MΩ)                | (Vdc)  |                |
|                    | ±35%       | Max.          | Max.                 | /     | 80V/3S Min.           | 3mA/1S |                |
| TRCM201710LF950NTA | 95         | 3.00          | 12.50                | /     | 10.00                 | 500    | @10KHz/0.1V    |
| TRCM201710LF221NTA | 220        | 60.00         | 3.30                 | 18.0  | 10.00                 | 500    | @10KHz/0.1V    |
| TRCM201710LF591NTA | 590        | 21.00         | 5.60                 | /     | 10.00                 | 500    | @10KHz/0.1V    |
| TRCM201710LF601NTA | 600        | 50.00         | 3.60                 | 4.0   | 10.00                 | 500    | @10KHz/0.1V    |
| TRCM201710LF771NTA | 770        | 40.00         | 4.70                 | 3.0   | 10.00                 | 500    | @10KHz/0.1V    |
| TRCM201710LF102NTA | 1010       | 210.00        | 1.40                 | 4.0   | 10.00                 | 500    | @10KHz/0.1V    |
| TRCM201710LF132NTA | 1320       | 60.00         | 3.30                 | 2.5   | 10.00                 | 500    | @10KHz/0.1V    |
| TRCM201710LF152NTA | 1470       | 80.00         | 2.80                 | 2.0   | 10.00                 | 500    | @10KHz/0.1V    |
| TRCM201710LF182NTA | 1800       | 80.00         | 2.50                 | 2.2   | 10.00                 | 500    | @10KHz/0.1V    |

### Notes

- Rated Current: Temp.rise 40°C Typ.
- Operating Temperature: -40°C up to +105°C.
- Storage Temperature: 15°C up to 25°C, 65% RH max.
- The temperature of electrical characteristic test is 25°C indoor temperature.

## Shape and Dimensions



### Dimensions

Unit:mm

| Series       | A       | B      | C       | D       | E       | F       | G    | H      | I      | J      | K      |
|--------------|---------|--------|---------|---------|---------|---------|------|--------|--------|--------|--------|
| TRCM100805LF | 8.4±0.5 | 9.5Max | 5.15Max | 8.2±0.2 | 6.2±0.2 | 6.2±0.2 | 0.55 | 9.4Typ | 6.2Typ | 1.4Typ | 5.4Typ |

## Specification

### TRCM100805LF Series

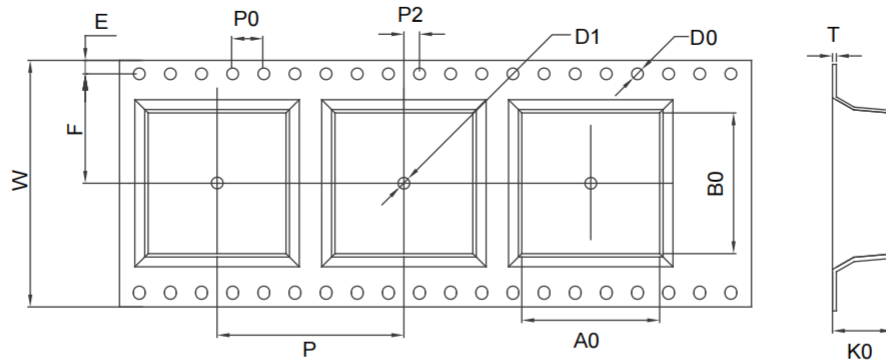
| Part Number        | Inductance | DC Resistance | Hi-Pot | Insulation Resistance | Test Frequency |
|--------------------|------------|---------------|--------|-----------------------|----------------|
|                    | L(μH)      | DCR(mΩ)       | (Vdc)  | IR(MΩ)                |                |
|                    | Min.       | Max.          | 3mA/1S | 80V/3S Min.           |                |
| TRCM100805LF500NTA | 50         | 72.00         | 600    | 100                   | @100KHz/0.1V   |
| TRCM100805LF201NTA | 200        | 55.00         | 600    | 100                   | @20KHz/0.1V    |
| TRCM100805LF301NTA | 300 Typ.   | 60.00         | 600    | 100                   | @20KHz/0.1V    |
| TRCM100805LF102NTA | 1000       | 150.00        | 600    | 100                   | @100KHz/0.1V   |
| TRCM100805LF472NTA | 4700       | 900.00        | 600    | 100                   | @10KHz/0.1V    |

### Notes

- Rated Current: Temp.rise 40°C Typ.
- Operating Temperature: -40°C up to +105°C.
- Storage Temperature: 15°C up to 25°C, 65% RH max.
- The temperature of electrical characteristic test is 25°C indoor temperature.

## Packaging Information

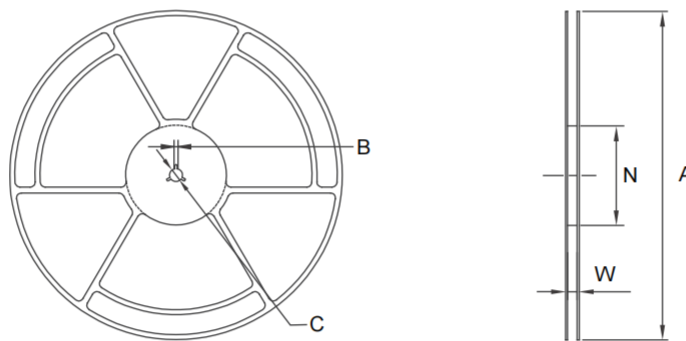
### Tape Dimensions



### Dimensions

| Series       | Tape dimensions (mm) |    |    |    |     |    |     |      |      |     |      |   |
|--------------|----------------------|----|----|----|-----|----|-----|------|------|-----|------|---|
|              | W                    | P  | P0 | P2 | D0  | D1 | T   | A0   | B0   | K0  | E    | F |
| TRCM060303LF | 16                   | 8  | 4  | 2  | 1.5 | /  | /   | /    | /    | /   | 1.75 | / |
| TRCM070402LF | 12                   | 8  | 4  | 2  | 1.5 | /  | /   | 4.0  | 6.9  | 2.1 | 1.75 | / |
| TRCM090605LF | 16                   | 12 | 4  | 2  | 1.5 | /  | /   | 6.3  | 9.5  | 5.5 | 1.75 | / |
| TRCM950605LF | 16                   | 8  | 4  | 2  | 1.5 | /  | /   | /    | /    | /   | 1.75 | / |
| TRCM090703LF | 16                   | 12 | 4  | 2  | 1.5 | /  | 0.4 | 7    | 9.5  | 2.7 | 1.75 | / |
| TRCM100805LF | 24                   | 16 | 4  | 2  | 1.5 | /  | /   | /    | /    | /   | 1.75 | / |
| TRCM100907LF | 24                   | 12 | 4  | 2  | 1.5 | /  | /   | 9.0  | 10.3 | 6.5 | 1.75 | / |
| TRCM121208LF | 24                   | 16 | 4  | 2  | 1.5 | /  | /   | 12.2 | 12.2 | 7.3 | 1.75 | / |
| TRCM141308LF | 24                   | 16 | 4  | 2  | 1.5 | /  | /   | /    | /    | /   | 1.75 | / |
| TRCM161409LF | 32                   | 24 | 4  | 2  | 1.5 | /  | /   | 16   | 18.5 | 11  | 1.75 | / |
| TRCM201710LF | 32                   | 24 | 4  | 2  | 1.5 | /  | /   | /    | /    | /   | 1.75 | / |

### Reel Dimensions



### Dimensions

| Series       | Reel Dimensions (mm) |      |     |   |    | Quantity     |
|--------------|----------------------|------|-----|---|----|--------------|
|              | A                    | W    | N   | B | C  |              |
| TRCM060303LF | 330                  | /    | 100 | / | 13 | 2000pcs/Reel |
| TRCM070402LF | 178                  | 12.5 | 60  | / | 13 | 2500pcs/Reel |
| TRCM090605LF | 330                  | 16.5 | 100 | / | 13 | 1000pcs/Reel |
| TRCM950605LF | 330                  | 16.5 | 100 | / | 13 | 1500pcs/Reel |
| TRCM090703LF | 330                  | 16.5 | 100 | / | 13 | 2000pcs/Reel |
| TRCM100805LF | 330                  | 24.5 | 100 | / | 13 | 600pcs/Reel  |
| TRCM100907LF | 330                  | 24.5 | 100 | / | 13 | 800pcs/Reel  |
| TRCM121208LF | 330                  | 24.5 | 100 | / | 13 | 500pcs/Reel  |
| TRCM121208LF | 330                  | 24.5 | 100 | / | 13 | 500pcs/Reel  |
| TRCM161409LF | 330                  | 24.5 | 100 | / | 13 | 300pcs/Reel  |
| TRCM201710LF | 330                  | 24.5 | 100 | / | 13 | 180pcs/Reel  |