

# DC common mode choke SFC68



## Features

- Compact size with high current handling capability for power lines
- Mechanical robustness to withstand harsh environments
- Two series available
  - WN series: High common-mode noise suppression
  - WNB series: High-frequency noise attenuation
- Operation temperature range: -25°C~+85 °C (Including coil's self-heat)
- RoHS compliant



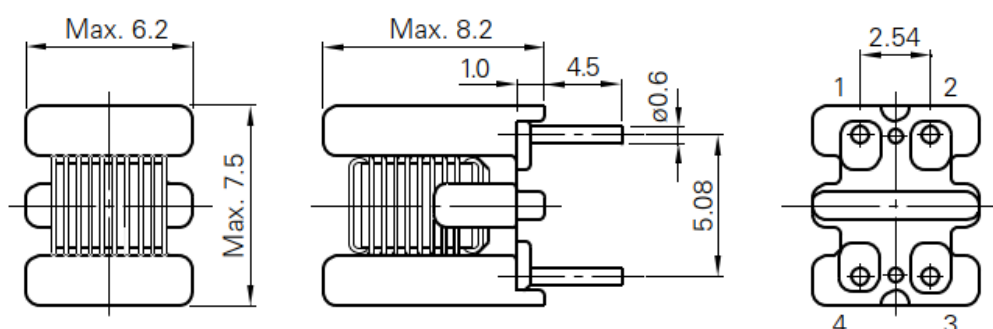
*Custom design Available*

## Applications

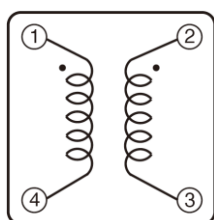
- Consumer Electronics
  - \* Noise suppression for AV, PC peripherals, household appliances, and communication devices
- Telecom Equipment
  - \* Power line noise suppression for wireless devices and network equipment
- Server & IT Peripherals
  - \* Noise suppression for server and storage power lines
- Industrial & Factory Automation
  - \* Noise reduction on power lines for PLCs, sensors, control devices, and small inverters

## Dimension

- Size (L x W x H): 7.5 × 6.2 × 8.2 (mm Max)



## Schematics



Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

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## Electrical Characteristics

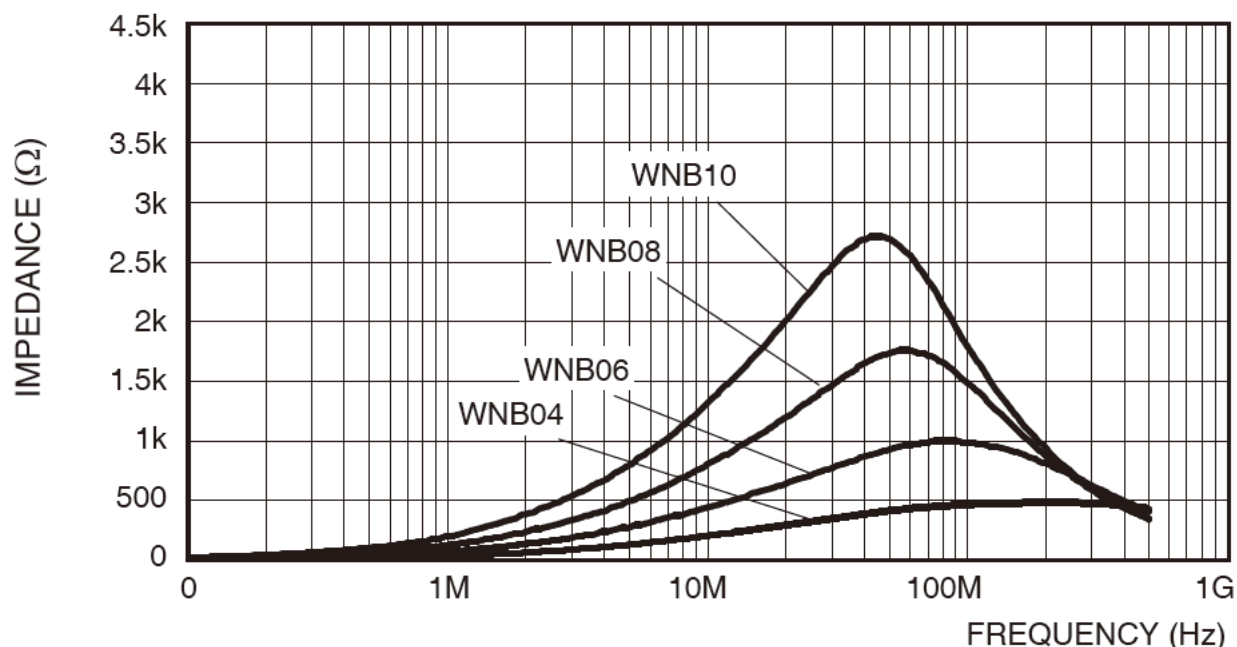
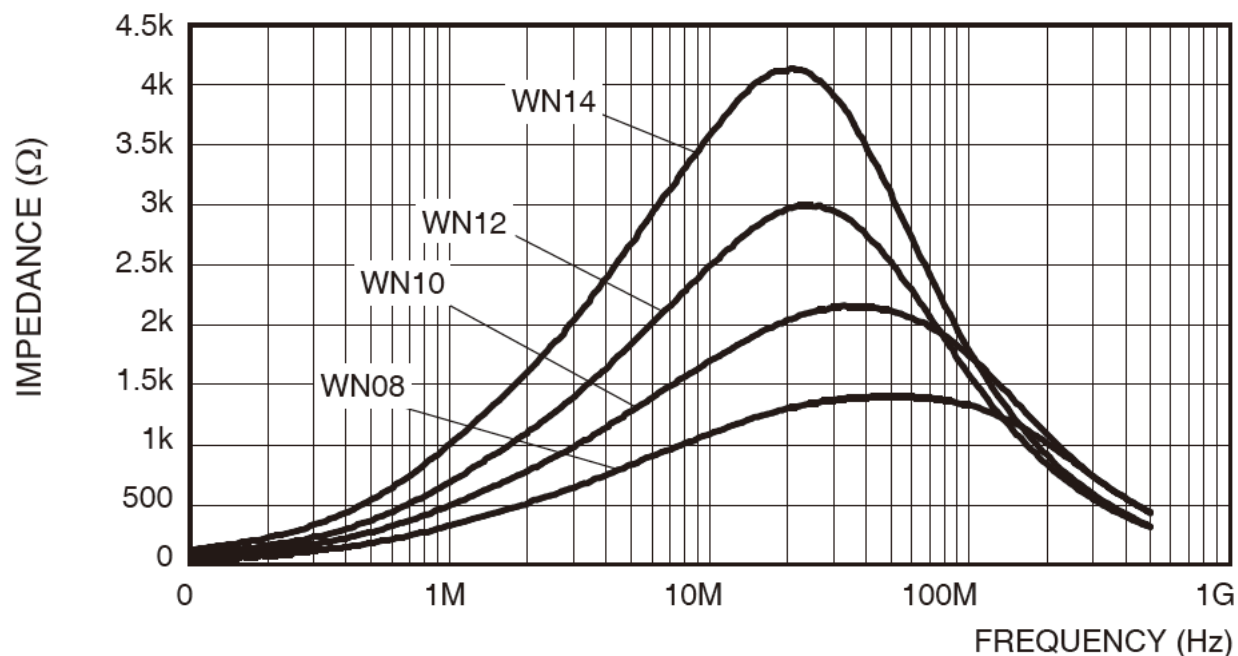
| Parts No.     | Inductance<br>(1-4) (2-3)<br>@ 1MHz | Impedance<br>(1-4) (2-3)    | D.C.R.           | Rated<br>Current |
|---------------|-------------------------------------|-----------------------------|------------------|------------------|
| SFC68NP-WN08  | 39.5 $\mu$ H                        | Min. 800 $\Omega$ (@20MHz)  | 64.9 m $\Omega$  | 1.30 A           |
| SFC68NP-WN10  | 60.7 $\mu$ H                        | Min. 1200 $\Omega$ (@20MHz) | 80.0 m $\Omega$  | 1.15 A           |
| SFC68NP-WN12  | 87.5 $\mu$ H                        | Min. 1800 $\Omega$ (@20MHz) | 94.5 m $\Omega$  | 1.08 A           |
| SFC68NP-WN14  | 121.5 $\mu$ H                       | Min. 2400 $\Omega$ (@20MHz) | 110.0 m $\Omega$ | 950 mA           |
| SFC68NP-WNB04 | 6.7 $\mu$ H                         | Min. 200 $\Omega$ (@100MHz) | 19.5 m $\Omega$  | 2.90 A           |
| SFC68NP-WNB06 | 15.6 $\mu$ H                        | Min. 500 $\Omega$ (@100MHz) | 25.5 m $\Omega$  | 1.80 A           |
| SFC68NP-WNB08 | 27.7 $\mu$ H                        | Min. 700 $\Omega$ (@100MHz) | 33.5 m $\Omega$  | 1.50 A           |
| SFC68NP-WNB10 | 43.5 $\mu$ H                        | Min. 800 $\Omega$ (@100MHz) | 41.5 m $\Omega$  | 1.05 A           |

※ *Rated Current:* The value of DC current when the temperature rise of coil becomes  $\Delta t = 40^{\circ}\text{C}$  ( $T_a = 20^{\circ}\text{C}$ )

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## Impedance characteristics



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