

## COMMON MODE CHOKES

# PRODUCT SUMMARY

**Description** N80 series common mode choke cores are made of nanocrystalline alloy of high permeability .

Recently, electromagnetic interference(EMI) considerations are increasingly important as electronic devices become part of our daily lives. This has rapidly increased the required performances for electromagnetic compatibility(EMC) components such as common mode chokes coils, which provide protection against incoming and outgoing high frequency noise. They also protect electronic devices against high voltage pulse noise generated by spark discharge, etc. These types of noise are created whenever there rapid transitions in voltage and/or current waveforms. In switching power supplies, the waveforms are periodic, but it's waveforms are non-periodic in case of data line for telecommunication. The application area of common chokes covers all products from telecommunication product for signal transmitting to switch-mode power supplies, frequency converters, and UPS units.

Common mode chokes are mainly used to provide attenuation of asymmetrical conducted interferences. Their design is determined by the specifications of the corresponding international standards and the specific interference suppression problem.

N80 series common mode chokes shows a higher insertion attenuation, that is insertion damping, overall the wide-range of frequency. The typical permeability of N80 series common mode choke is 80,000. To satisfy these requirements, SHINHOM will provide a higher level of common mode chokes with N80 series flat loop cores.

## Feature

- High permeability
- Reduce in size
- Reduce the winding turns
- Low DC resistance
- Low core loss
- High impedance overall the wide-range of frequency
- Meet the EN500081 and EN 500082 standards.
- Getting a suitable insertion loss in wide-rang of frequency
- Low profile (1~5mm height)

## Application

- EMI common mode filtering
- Telecommunications and data communications interface transformers
- High accuracy current transformers
- High accuracy pulse transformers
- Ground fault protection devices