

ABSTRACT

The present invention relates to a choke coil for preventing harmonic distortions used with home-use and industrial electronic apparatuses, and the object thereof is to reduce the apparatus size, reduce leakage fluxes and realize superior high-frequency characteristics.

In order to achieve this object, according to the present invention, there is provided a choke coil comprising a first magnetic core and a second magnetic core making up a closed magnetic circuit or an open magnetic circuit, a first coil, a second coil and a third coil, wherein the first coil is wound on the first magnetic core, the second coil is wound on the second magnetic core, and further the third coil is wound in such a manner as to cover the first magnetic core and the second magnetic core, an inductance value required for preventing harmonic distortions is secured by the magnetic circuit configuration. At the same time, the function of a common-mode choke coil is provided to increase a coupling coefficient and reduce the system size and leakage fluxes.

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