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Knowing the basics of EMI filter by Nishaidhijames

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An Electromagnetic Interference (EMI) is a disturbance that occurs in an electric circuit. This may be caused by conduction or by radiation. An EMI filter is a device that is used to contain the conducted EMI. The EMI filters are used to contain or impede the interference caused by a specific device. Impedance is a very important factor in electrical circuits. It is the amount of resistance a circuit presents when electric current is passed through it. EMI filters are also used to impede the interference caused by any external equipment being used to improve the device immunity to EMI signals. Well designed EMI filters not only control EMI emissions but are also prove effective in reducing EMI emissions caused by radiation as well as EMI susceptibility.

Integrated electronic circuitry is common in most domestic devices today. As a result the possibility of EMI emissions is on the rise. The need for EMI filters is also increasing. Some of the sources of EMI include door bell transformers, two-way radio transmitters, toaster ovens, pest control devices that use ultrasound technology. Moreover, computer screens and mobile phones placed next to each other may also be potential area for EMI emission.

EMI filters may be of various kinds. Most filters are provided with ESD protection. Also an EMI filter can be designed with additional devices that generate temporary electric current and hence provide enhanced filtering. The devices would also ensure battery backup. A proper EMI filter needs to have the perfect configurations. This is directly responsible for increasing the effectiveness of the filter. EMI filters are high reactive components which helps it to control the impact of impedance. A snubber may also be used as a filter. However, snubbers do not work at currents over 2 Amp.

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