

## 2. Noise Transmission Paths and Basic Concepts for Noise Suppression

## 2.2. Methods to suppress noise with EMI filters

## Methods to suppress noise with EMI filters

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Type of Noise	Methods to suppress noise with EMI filter
High-frequency noise (Harmonic wave of signal, etc.)	Use different frequencies for signal and noise.
Common mode noise (Noise transmitted on all lines, regardless of line types such as a signal line or ground line, in the same direction)	Use a different conduction mode between signal and noise.
High voltage surge (Electrostatic discharge, surge, etc.)	Suppress high voltage surges using non-linear resistors (Varistors).

To suppress noise using EMI filters, the following three methods are available.

[Notes]

1. Using different frequencies for signal and noise.
2. Using a different conduction mode between signal and noise.
3. Suppressing high voltage surges using non-linear resistors (Varistors).