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Again, each harmonic of the digital signal will be attenuated
according to that frequency of operation. Increased loss of the
signal components will add to the distortion of the digital
signal. Printed circuit board layout is often the single most
important factor affecting the electromagnetic compatibility of
electronic systems. Boards that are auto-routed or laid out
according to a list of "design rules" do not usually meet

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electromagnetic compatibility requirements on the first pass; and
Design

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Signal integrity or SI is a set of measures of the quality of an
electrical signal. In digital electronics, a stream of binary
values is represented by a voltage waveform. However,
digital signals are fundamentally analog in nature, and all
signals are subject to effects such as noise, distortion, and
loss. Over short distances and at low bit rates, a simple
conductor can transmit this with sufficient fidelity. At high bit
rates and over longer distances or through various mediums,
various effec

Signal integrity - Wikipedia
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