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Examples of Noise Suppression in Notebook PCs

Noise Suppression Model

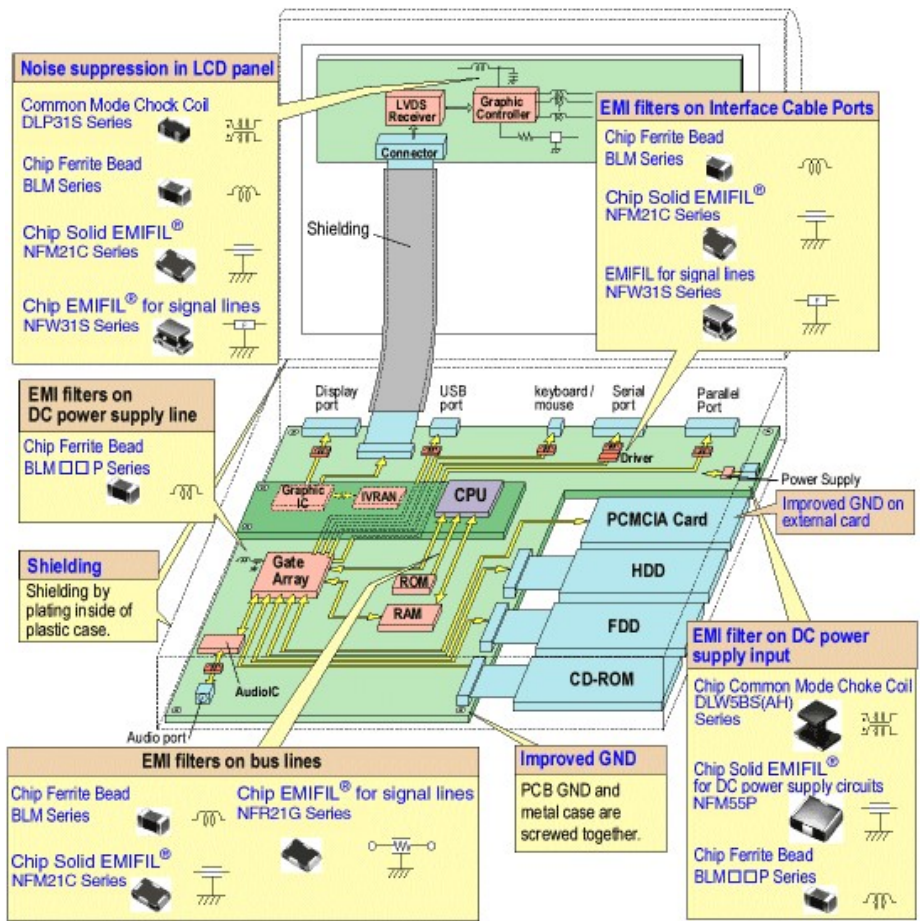
Noise suppression methods are introduced in each example listed on the right.

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A notebook PC has a limited space for components. Therefore, it is important to first make a good shield, and then install EMI filters. Conductive plating is applied to the plastic case, and a metal plate is installed above and below the PCB. To suppress noise on the interface cable, the metal plate and GND are connected around the end of the cable with installed EMI filters.

High noise levels also radiate from the LCD unit due to the many bus lines connecting the graphic controller and LCD driver. Therefore, EMI filters such as Chip Ferrite Bead are

installed on the bus lines. The cable connecting the LCD and main board also emits high noise levels, so also must be shielded.

In the external slot used for PCMCIA cards, the GND for the card and the main board GND need to be connected with low impedance at high frequency. The card slot is also shielded with a metal plate.

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