

Example of Noise Suppression in Printers 6

Noise Suppression Content in Printers

In printers, the GND is improved to suppress noise from the main board and prevent static electricity from causing a malfunction. A GND plate (metal plate) is installed onto the rear face of the main board and connected to the main board GND.

To suppress noise conduction from the main board to the printer cable, EMI filters are installed on the printer cable port (parallel interface). To suppress noise

conduction to the AC power supply cable, EMI filters are installed on the DC power supply input and DC power supply line. To suppress noise caused by the motor, EMI filters are installed on the motor control signal lines. When noise radiated from the board itself is combined with noise from the surrounding cables, ferrite beads are installed on the clock and bus lines.

