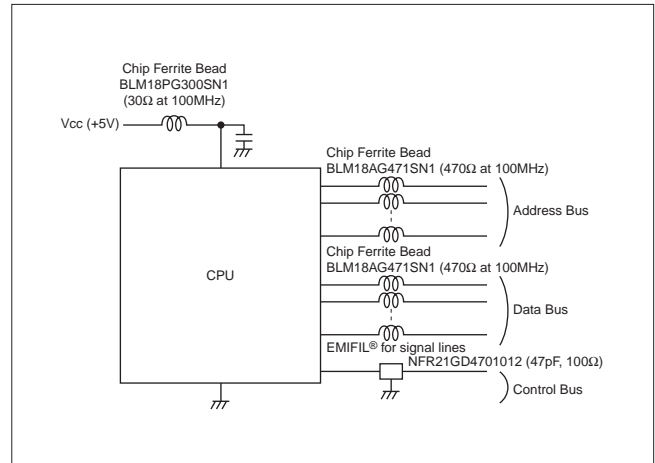


Example of Noise Suppression in DVD Players 5

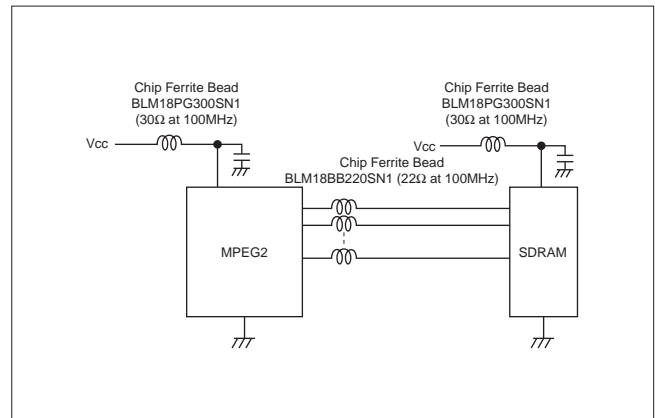
Installing EMI Filters on Bus Lines

Data bus/Address bus lines contain many lines that switch on and off simultaneously. An instantaneous large current flows into the GND and power supply lines. Therefore, it is necessary to suppress the current flow to the signal lines. The BLM series (Chip Ferrite Bead) is generally used for this purpose. On the control bus line, especially at high operating speeds and high noise levels, a filter with resistance components is used such as the NFR21G series (Chip EMIFIL®).



Installing EMI Filters on High-speed Bus Lines

Since very high speed signals are transmitted on the bus lines between the MPEG2 and SDRAM chips, high levels of high frequency noise are generated. In these cases, the BLM□□B□□N1 series (Chip Ferrite Bead for high-speed signal lines) is used. Featuring a sharp impedance rise at the specified frequency, this filter is used to minimize distortion of the signal waveform.



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