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ECMF02-2BF3

Dual line IPAD™, common mode filter with ESD protection for high speed serial interface

Data brief

Features

- Very large differential bandwidth above 5 GHz
- High common mode attenuation:
 - 23 dB at 900 MHz.
- High common mode attenuation:
 - 20 dB between 800 MHz and 2.2 GHz.
- Very low PCB space consumption: $<1.1\text{mm}^2$
- Thin package: 0.50 mm max. after reflow
- Lead-free package
- High reduction of parasitic elements through integration

Complies with the following standard:

- IEC 61000-4-2 level 4 input and output pins:
 - $\pm 15\text{ kV}$ (air discharge)
 - $\pm 8\text{ kV}$ (contact discharge)

Application

High speed serial interfaces such as USB2.0, MIPI D-PHY, MDDI and HDMI.

Description

The ECMF02-2BF3 is a highly integrated common mode filter designed to suppress EMI/RFI common mode noise on high speed differential serial buses like MIPI D-PHY, MDDI, USB2.0 and HDMI.

The ECMF02-2BF3 can protect and filter one differential lane.

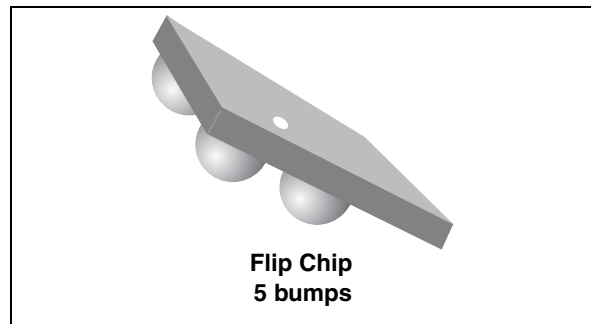
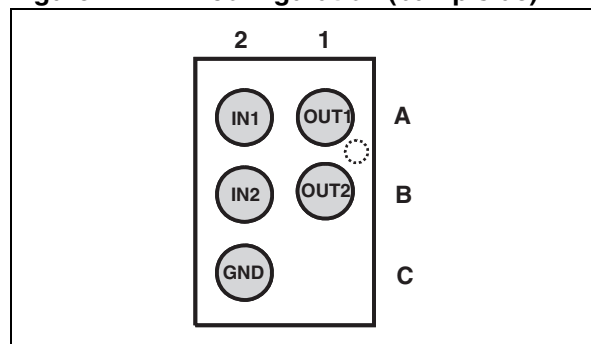


Figure 1. Pin configuration (bump side)



TM: IPAD is a trademark of STMicroelectronics.

1 Revision history

Table 1. Document revision history

Date	Revision	Changes
01-Feb-2012	1	Initial release.

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