



# EMIF06-SD02F3

IPAD™

## 6 line EMI filter and ESD protection for SD card

Data Brief

### Main application

- Removable memory cards in mobile phones, communication systems, and portable applications
- Compliant with: SD (standard and high speed) /MiniSD/ μSD and MMC/Trans-flash standards

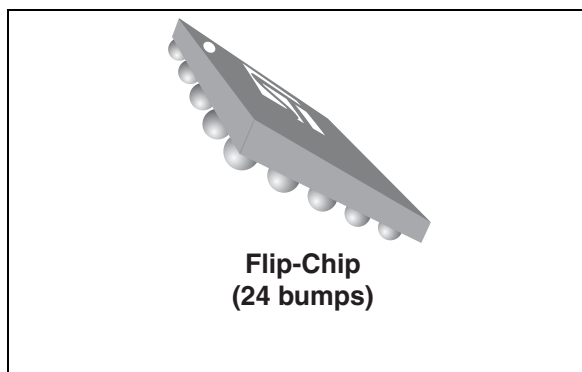
### Description

The EMIF06-SD02F3 is a highly integrated device based on IPAD technology combining 5 functions:

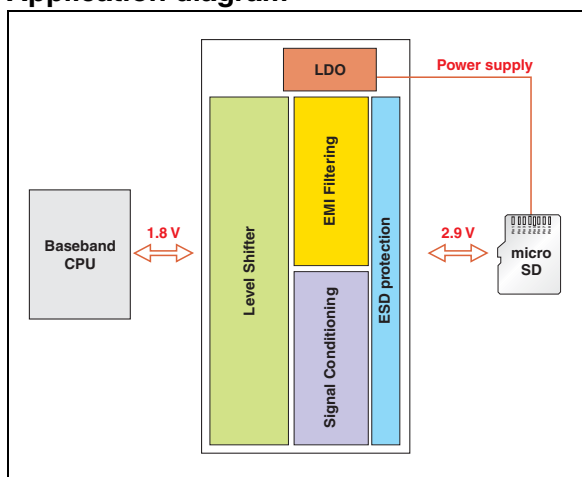
- ESD protection (IEC standard)
- EMI Filtering
- Level translator
- Signal conditioning
- Integrated power supply with thermal shutdown (TSD), under voltage lockout (UVLO), and short-circuit current limitation ( $I_{SC}$ )

### Benefits

- EMI Low-pass-filter and ESD protection (up to 15 kV on external pins)
- Integrated pull up resistors to prevent bus floating
- 50 MHz clock frequency compatible with  $C_{line} < 40$  pF
- Lead-free package in 400 μm pitch
- Low power consumption
- Very low PCB space consumption
- High reliability offered by monolithic integration
- Reduction of parasitic elements thanks to CSP integration



### Application diagram



### Complies with the following standards:

#### IEC 61000-4-2, Level 4:

External pins            15 kV (air discharge)  
                                  8 kV (contact discharge)

#### 2 kV - HBM IEC 61340-3-1:

Internal pins            2 kV (air discharge)  
                                  2 kV (contact discharge)

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1/3

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## 1 Ordering information

Part Number	Marking	Package	Weight	Base qty	Delivery mode
EMIF06-SD02F3	HF	Flip-Chip	7.45 mg	5000	Tape and reel (7")

Note: More information is available in the application note :  
AN2348 : "Flip Chip : Package description and recommendations for use"  
AN1751 : EMI Filters: Recommendations and measurements

## 2 Revision history

Date	Revision	Changes
06-Mar-2007	1	First issue

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