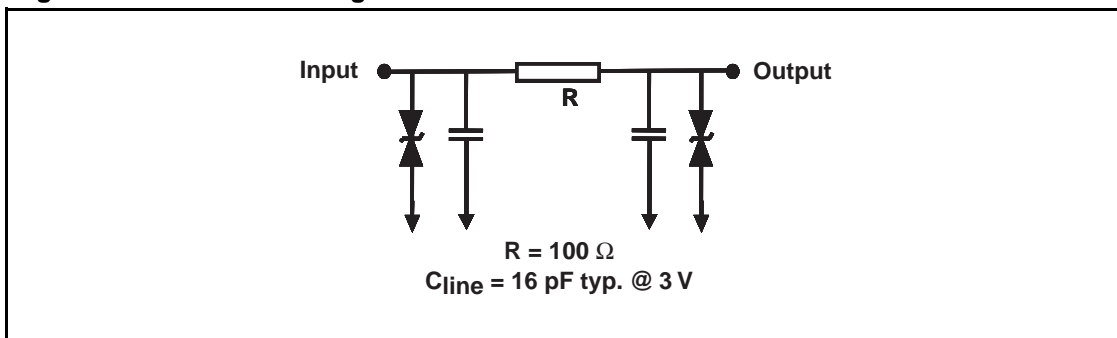




**Figure 1. Basic cell configuration**



**Table 1. Absolute ratings (limiting values)**

Symbol	Parameter	Value	Unit
V <sub>pp</sub>	ESD discharge IEC61000-4-2 air discharge	15	kV
	ESD discharge IEC61000-4-2 contact discharge	8	KV
T <sub>j</sub>	Maximum junction temperature	125	°C
T <sub>op</sub>	Operating temperature range	-40 to +85	°C
T <sub>stg</sub>	Storage temperature range	-55 to +150	°C

# 1 Electrical characteristics (T<sub>amb</sub> = 25°C)

Symbol	Parameters	
V <sub>BR</sub>	Breakdown voltage	
I <sub>RM</sub>	Leakage current @ V <sub>RM</sub>	
V <sub>RM</sub>	Stand-off voltage	
R	Series resistance between Input & Output	
C <sub>line</sub>	Input capacitance per line	

Symbol	Test conditions	Min	Typ	Max	Unit
V <sub>BR</sub>	I <sub>R</sub> = 1mA	6	8	10	V
I <sub>RM</sub>	V <sub>RM</sub> = 3V per line			500	nA
R <sub>I/O</sub>	I=10mA	80	100	120	Ω
C <sub>line</sub>	V <sub>R</sub> = 3V DC, 1 MHz		16	19	pF

Figure 2. S21 (dB) attenuation measurement

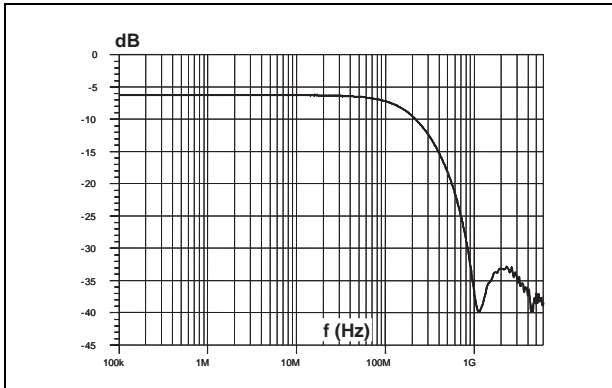


Figure 3. Analog crosstalk measurement

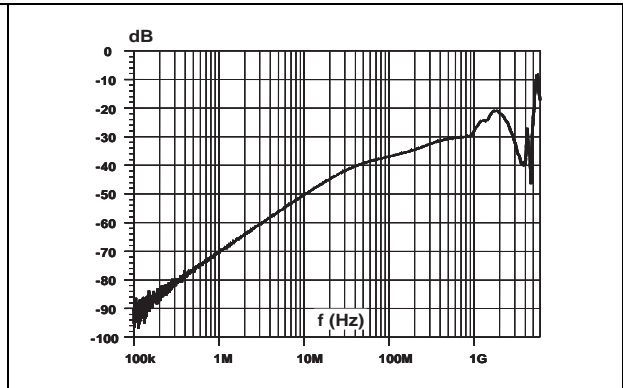


Figure 4. ESD response to IEC61000-4-2 (+15 kV air discharge) on one input  $V_{in}$  and one output  $V_{out}$

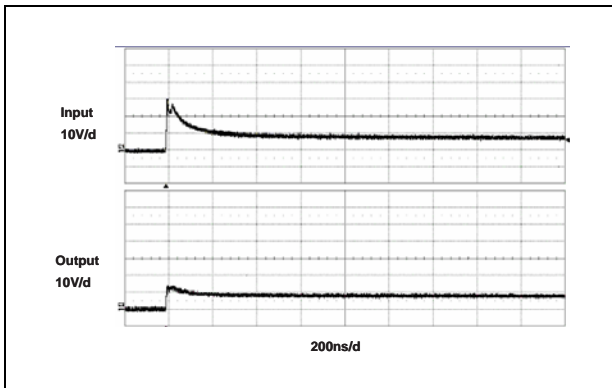


Figure 5. ESD response to IEC61000-4-2 (-15 kV air discharge) on one input  $V_{in}$  and one output  $V_{out}$

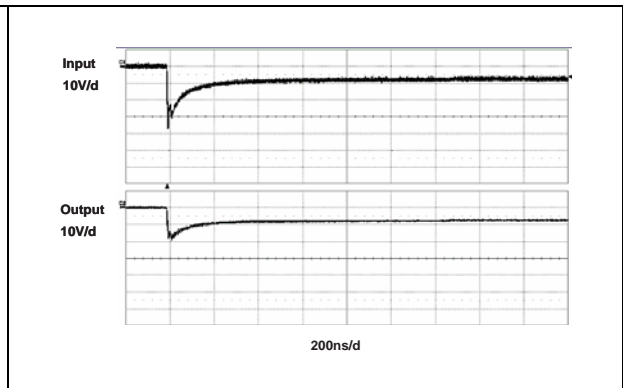
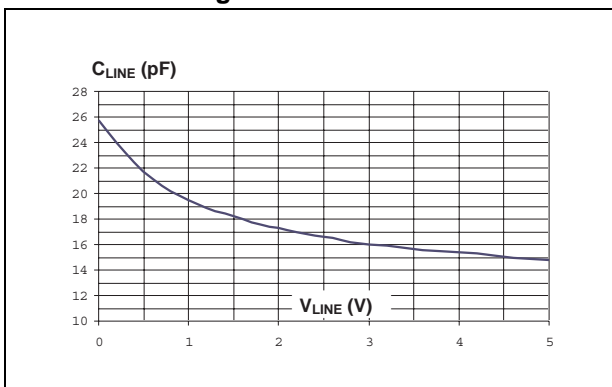
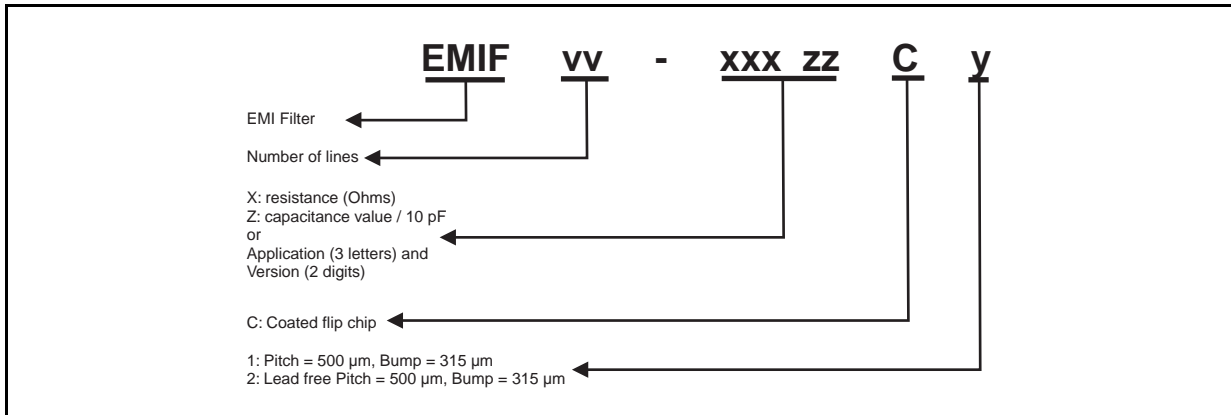


Figure 6. Line capacitance versus applied voltage



## 2 Ordering information scheme



## 3 Package mechanical data flip chip

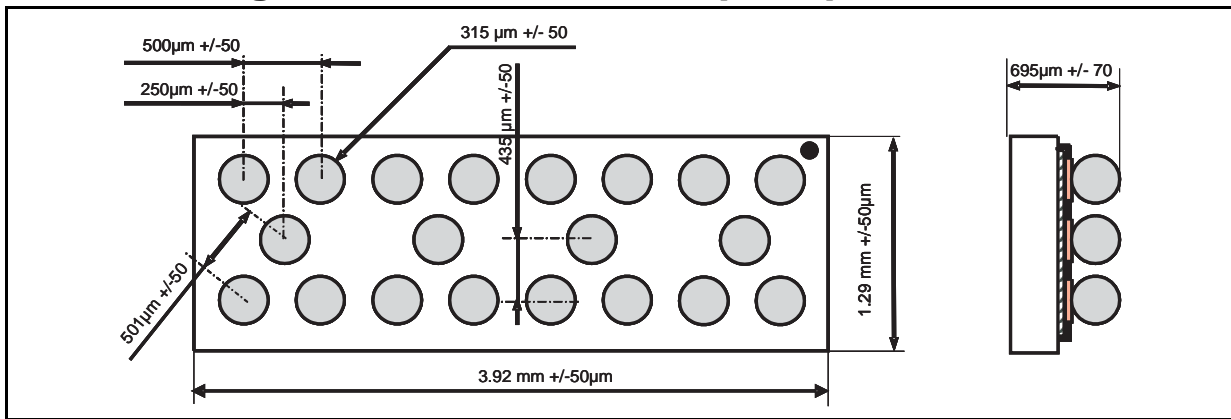


Figure 7. Marking

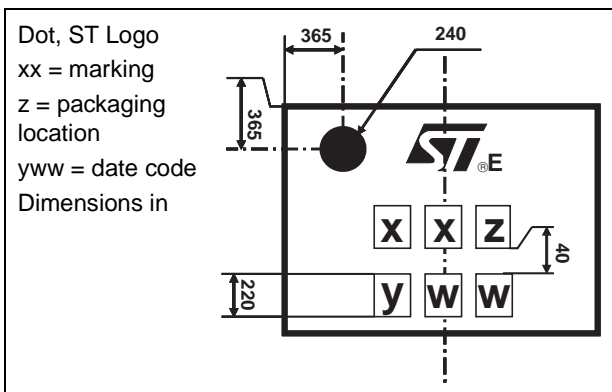


Figure 8. Foot print recommendation

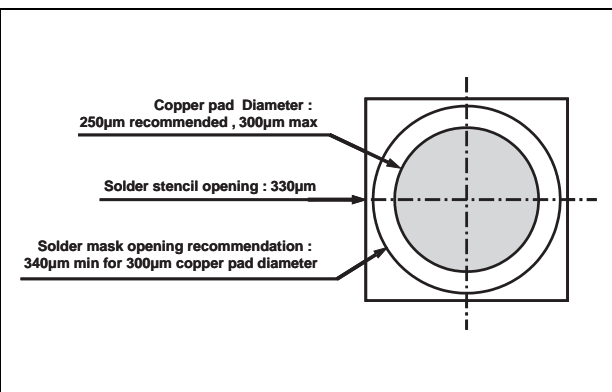
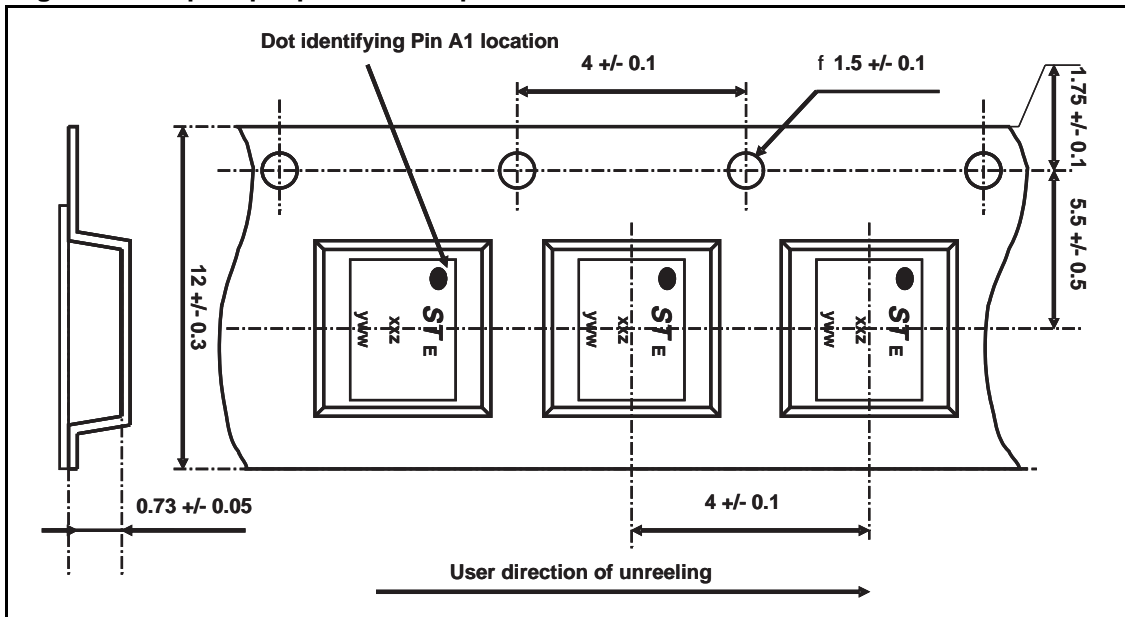


Figure 9. Flip chip tape and reel specification



## 4 Ordering information

Ordering code	Marking	Package	Weight	Base qty	Delivery mode
EMIF08-VID01C2	GS	Flip Chip	7.4mg	5000	7" Tape and reel

## 5 Revision history

Date	Revision	Changes
13-Jul-2005	1	Initial release.
11-Aug-2005	2	Fonts changed in Figures 7, 8, and 9.

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