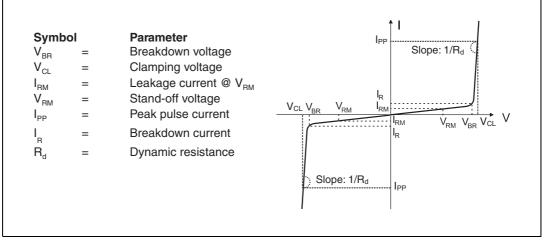
### 1 Characteristics

Symbol	Parameter	Value	Unit
V <sub>PP</sub>	ESD discharge IEC 61000-4-2 <sup>(1)</sup> Air discharge Contact discharge	30	kV
I <sub>SPK</sub>	Maximum rms currrent per channel	800	mA
Тj	Maximum junction temperature	125	°C
T <sub>op</sub>	Operating temperature range	-30 to 85	°C
T <sub>stg</sub>	Storage temperature range	-55 to + 150	°C

### Table 1.Absolute maximum ratings ( $T_{amb} = 25 \ ^{\circ}C$ )

1. Measurements done on IEC 61000-4-2 test bench. For further details see Application note AN3353, "IEC 61000-4-2 standard testing".

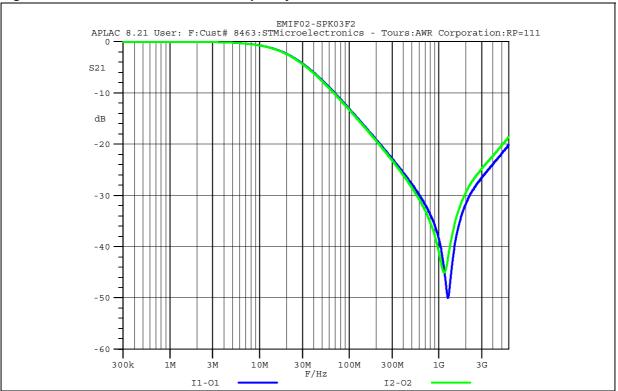
### Figure 3. Electrical characteristics - definitions



#### Table 2.Electrical characteristics - values (Tamb = 25 °C)

Symbol	Test conditions	Min.	Тур.	Max.	Unit
V <sub>BR</sub>	I <sub>R</sub> = 1 mA	6			V
R <sub>d</sub>	tp = 100 ns		0.2		Ω
I <sub>RM</sub>	V <sub>RM</sub> = 3 V per line			0.3	μA
R <sub>DC_L</sub>	C_L DC resistance of the inductor		0.07	0.1	Ω
C <sub>line</sub>	Vline = 0 V, $V_{OSC}$ = 30 mV, F = 1 MHz		250		pF





#### Figure 4. Insertion losses versus frequency



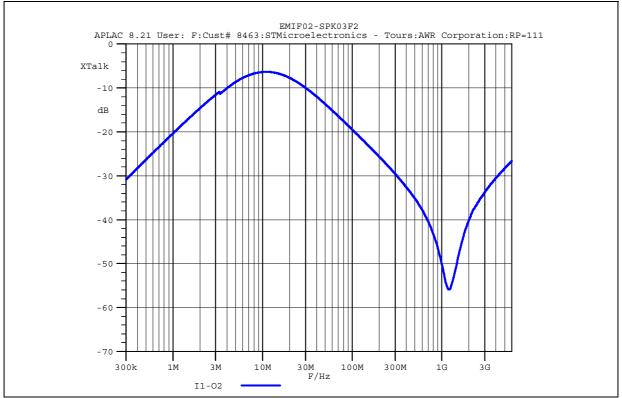
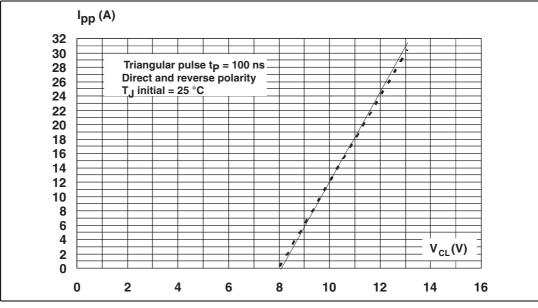


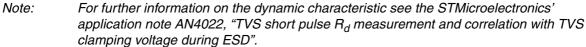




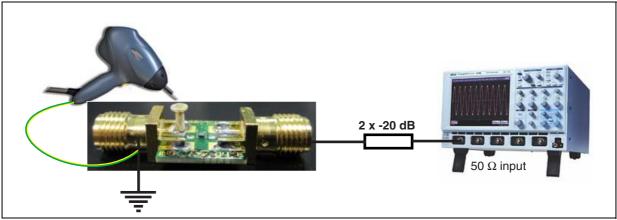
Figure 6. Audio band analog crosstalk

Figure 7. Clamping voltage V<sub>CL</sub> versus peak pulse current I<sub>PP</sub> for short pulse duration such as ESD surges

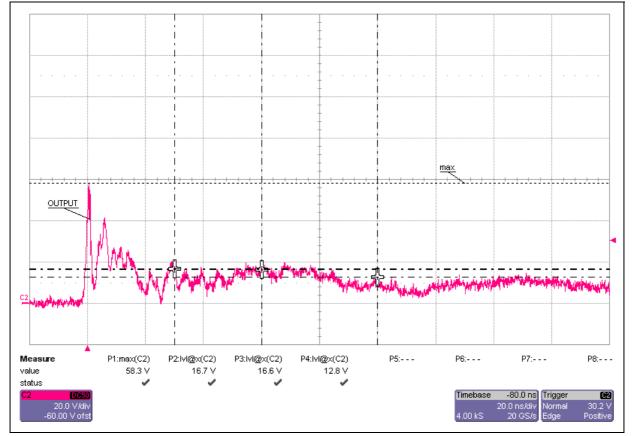




#### Figure 8. ESD test conditions









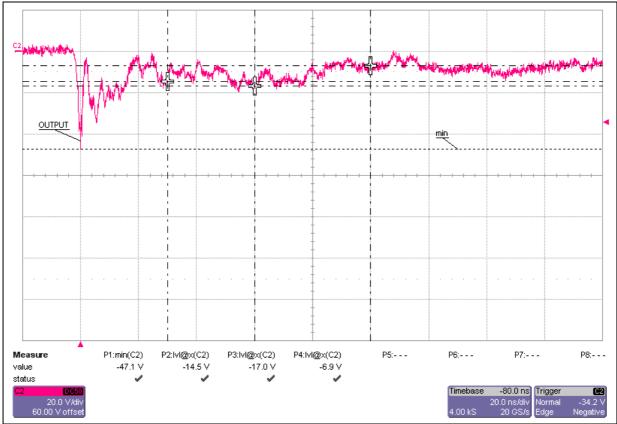
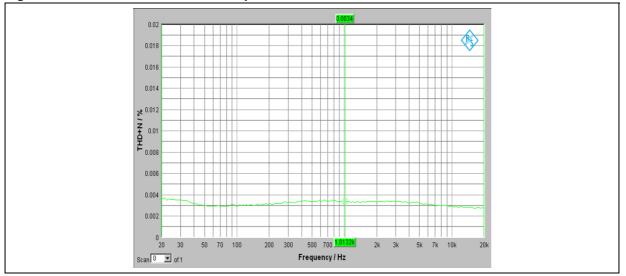


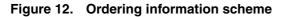
Figure 10. Output filter ESD response to IEC 61000-4-2 (-30 kV contact discharge) Ix to Ox

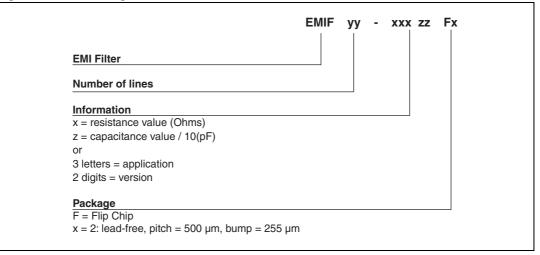
Figure 11. Total harmonic distortion plus noise





## 2 Ordering information scheme



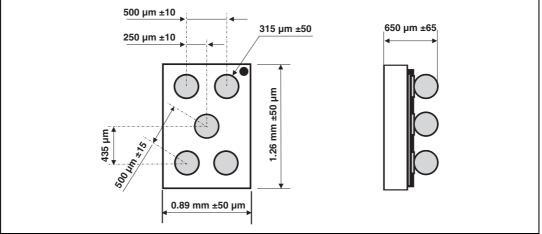


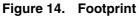


### 3 Package information

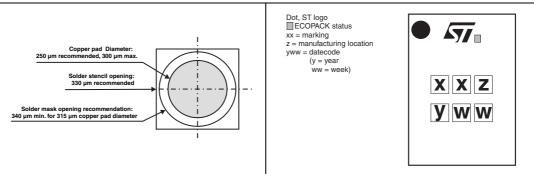
In order to meet environmental requirements, ST offers these devices in different grades of ECOPACK<sup>®</sup> packages, depending on their level of environmental compliance. ECOPACK<sup>®</sup> specifications, grade definitions and product status are available at: <u>www.st.com</u>. ECOPACK<sup>®</sup> is an ST trademark.



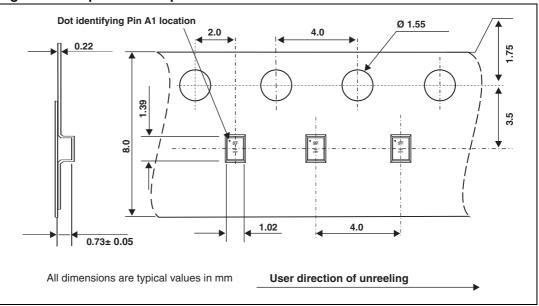




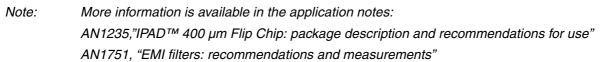
#### Figure 15. Marking







#### Figure 16. Tape and reel specification



### 4 Ordering information

Table 3. Orderi	ng information
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Order code	Marking	Package	Weight	Base qty	Delivery mode
EMIF02-SPK03F2	JX	Flip Chip	1.8 mg	5000	Tape and reel 7"

### 5 Revision history

#### Table 4.Document revision history

Date	Revision	Changes
19-Jun-2012	1	Initial release.



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