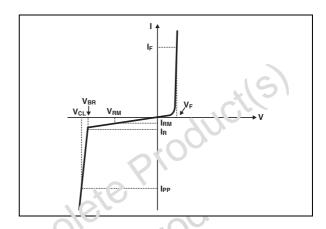
Table 2: Absolute Ratings (limiting values)

Symbol	Parameter	Value	Unit
Tj	Junction temperature	125	°C
T _{op}	Operating temperature range	-40 to + 85	°C
T _{stg}	Storage temperature range	-55 to +150	°C

Table 3: Electrical Characteristics $(T_{amb} = 25^{\circ}C)$

Symbol	Parameter
V _{BR}	Breakdown voltage
I _{RM}	Leakage current @ V _{RM}
V _{RM}	Stand-off voltage
V _{CL}	Clamping voltage
R _d	Dynamic resistance
I _{PP}	Peak pulse current
R _{I/O}	Series resistance between Input & Output
C _{line}	Input capacitance per line



Symbol	Test conditions	Min.	Тур.	Max.	Unit
V _{BR}	I _R = 1 mA	6	8	10	V
I _{RM}	V _{RM} = 3V per line			200	nA
R _{I/O}	Tolerance ± 10%		160		Ω
C _{line}	V _R = 3V		13	15	pF

Figure 2: 521(dB) attenuation measurement

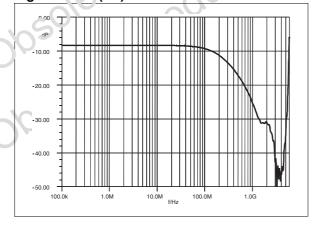
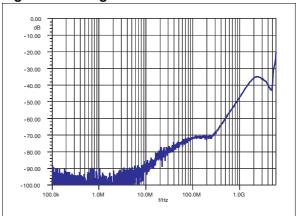


Figure 4: Analog cross talk measurements



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

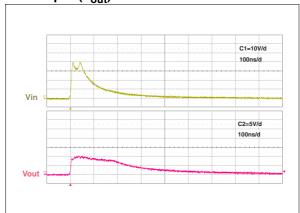


Figure 7: Line capacitance versus applied voltage (typical value)

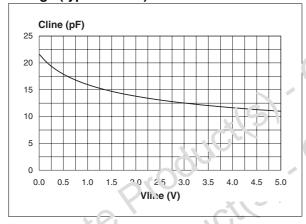


Figure 6: ESD response to IEC61000-4-2 (-15kV air discharge) on one input (V_{in}) and on one output (V_{out})

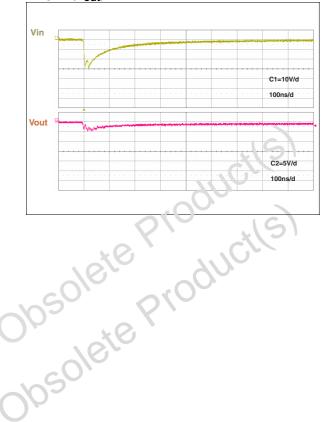
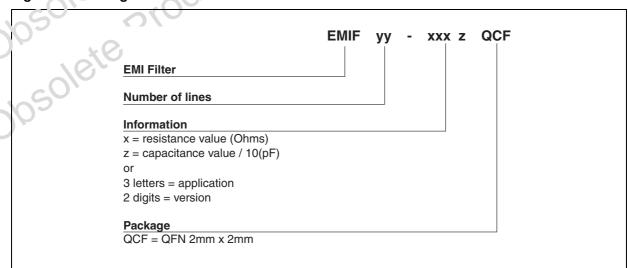
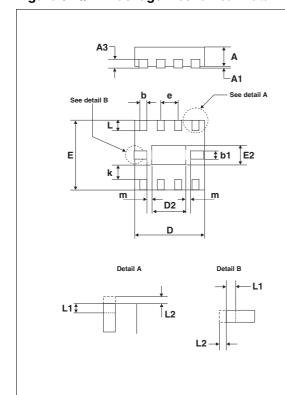


Figure 8. Circlering Information Scheme

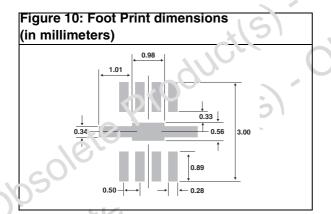


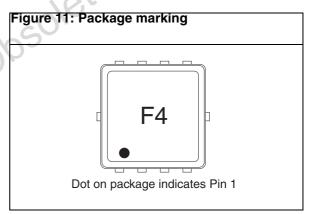
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Figure 9: QFN Package Mechanical Data



		DIMENSIONS					
REF.	Millimeters			Inches			
Í	Min.	Тур.	Max	Min.	Тур.	Max.	
Α	0.50		1.00	0.020		0.039	
A1	0.00	0.03	0.05	0.00	0.001	0.002	
A3			0.25			0.010	
b	0.18		0.30	0.007		0.012	
b1	0.17		0.44	0.007		0.017	
D	1.90	2.00	2.10		0.079		
D2	0.88	0.98	1.08	0.035	0.009	0 043	
Е	1.90	2.00	2.10		0.0.79		
E2	0.46	0.56	0.65	0.018	0.022	0.026	
е		0.50	~ (Da.	0.020		
L	0.20	0.29	[J.45]	0.008	7/	0.018	
L1		x (2)	0.15		G.,	0.006	
L2	76		0.13	9		0.005	
k	0.20		71	0.008			
n.	0.12	0.17	0.23				





In order to meet environmental requirements, ST offers these devices in ECOPACK® packages. These packages have a Lead-free second level interconnect . The category of second level interconnect is marked on the package and on the inner box label, in compliance with JEDEC Standard JESD97. The maximum ratings related to soldering conditions are also marked on the inner box label. ECOPACK is an ST trademark. ECOPACK specifications are available at: www.st.com.

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Table 4: Ordering Information

Part Number	Marking	Package	Weight	Base qty	Delivery mode
EMIF04-1502QCF	F4	QFN	8.4 mg	3000	Tape & reel (7")

Note: Further packing information available in the application note - AN1751: "EMI Filters: Recommendations and measurements"

Table 5: Revision History

	Date	Revision	Description of Changes
	06-Dec-2004	1	First issue.
	16-Mar-2005	2	QFN package mechanical data update: 1/ A min: 0.50 mm instead of 0.80 2/ A typ: deleted 3/ b1 max: 0.44 mm instead of 0.30
	01-Apr-2005	3	QFN package mechanical data update: 1/ Reference Details A and B added
	19-Oct-2005	4	Added ECOPACK statement. Added Figure 11 to show package marking QFN package mechanical data update: 1/ Added dimension in 2/ Added min and max values for dimensions D and E 3/ Added typical value for dimension L
Ó	osolete P	roducils	i Obsolete

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