

Datasheet | EC03

EP-422 Series



General Purpose AC EMI Filter

El.italia EC-EC03 [EP-422] serie



Technical specifications

Operating voltage	120/250 VAC
Current rating	1A-10A
Frequency	50/60Hz
Voltage drop	1 Volt max.
High potential test voltage	P -> E 1500VAC P -> N 1414VDC (applicable for excluding surge suppressor filter)
Insulation resistance	$\geq 300 \text{ M}\Omega @ 500\text{VDC (PN}\rightarrow\text{E)}$
Operating temperature	40°C / -25°C +85°C

*Image shown is for illustrative purpose only

Features and benefits

- | All filters provide high attenuation performance.
- | High reliable
- | All filters compliance to EN60939-3:2015 & EN60939-2:2005 standards
- | Chassis mountable filter in oval shape aluminum metal can with mounting clamp.
- | Filters available in medical version without capacitor to earth.
- | General purpose filters with low leakage current for safety critical application.
- | With surge suppressor filters also available.

Attenuation Type

Single Stage

Standard

Applications

- | Printing and packaging machines
- | White good industrial equipment
- | Medical equipment
- | Testing and measuring instruments
- | Currency counting machines
- | Analytical instruments

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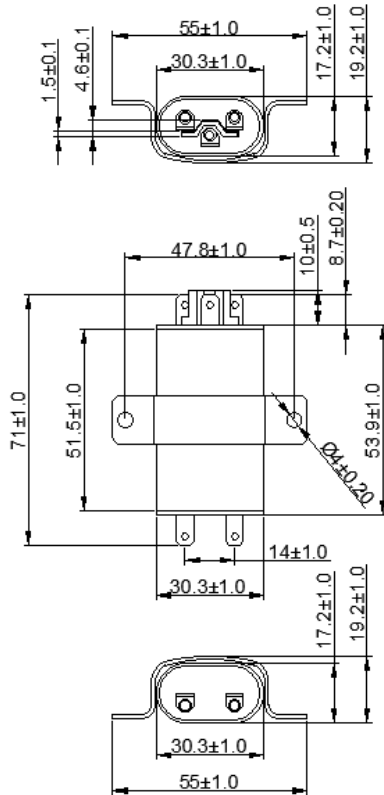
EP-422 Series



Mechanical details

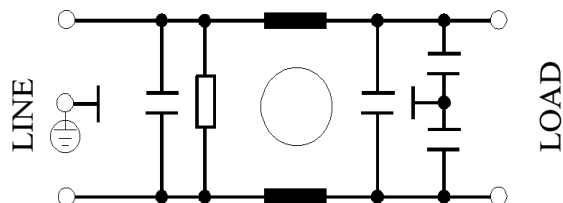
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I For fast-on terminal

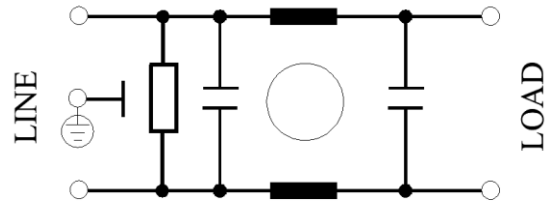


Electrical schematic

General Purpose -



Medical equipment application -



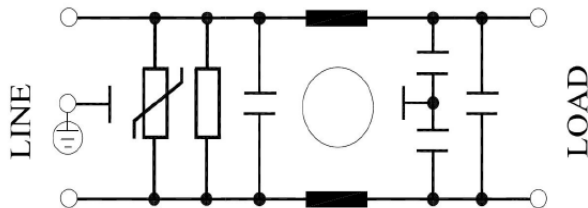
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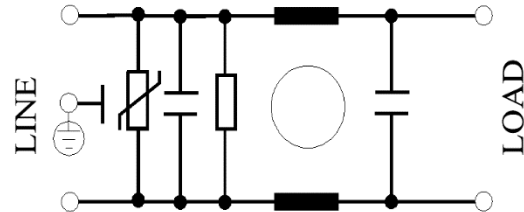


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General Purpose with Surge Suppressor -



Medical equipment application with Surge Suppressor -

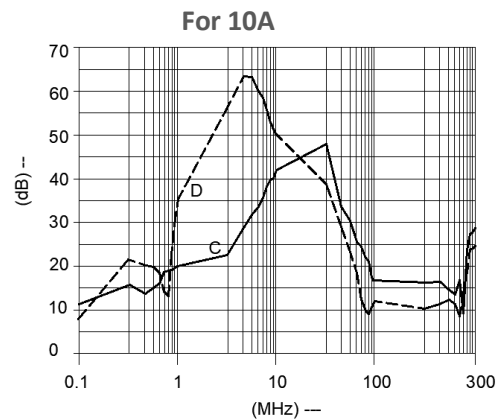
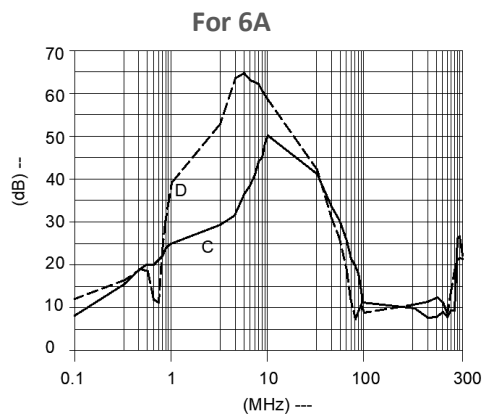
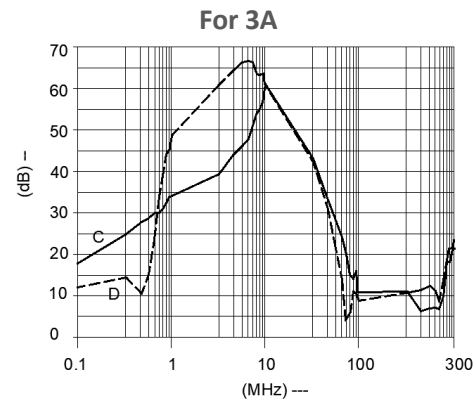
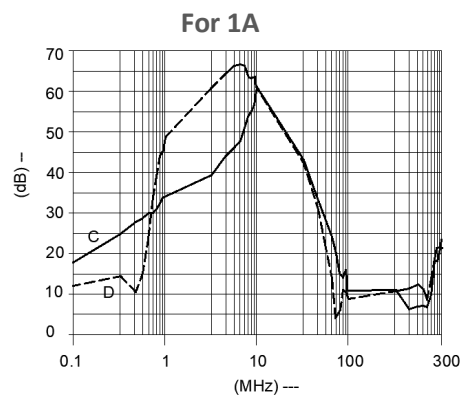


Filter attenuation Graph

C = Common mode (asymmetrical) ———

D = Differential mode (symmetrical) - - - - -

For General application (Single Stage)



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Filter Selection Table

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Sr. No.	Elcom part codes (ordering code)	Rated Current rating (A) @40°C	Leakage current (mA) @250VAC	Terminals (X)	Max. Peak current (8/20 μ sec 1 time) (KA)	Energy surge rating (10/1000 μ sec) (Joules)	Approx. Weight (gm)	Attenuation
				Fast-on 				
1	EF-1B001X01E-C03	1	< 0.5	C	----	----	60	Standard
2	EF-1B001X02E-C03	1	< 0.5	C	6.5	175	60	Standard
3	EF-1B001X03E-C03	1	< 0.003	C	----	----	60	Standard
4	EF-1B001X04E-C03	1	< 0.003	C	6.5	175	60	Standard
5	EF-1B003X01E-C03	3	< 0.5	C	----	----	60	Standard
6	EF-1B003X02E-C03	3	< 0.5	C	6.5	175	60	Standard
7	EF-1B003X03E-C03	3	< 0.003	C	----	----	60	Standard
8	EF-1B003X04E-C03	3	< 0.003	C	6.5	175	60	Standard
9	EF-1B006X01E-C03	6	< 0.5	C	----	----	60	Standard
10	EF-1B006X02E-C03	6	< 0.5	C	6.5	175	60	Standard
11	EF-1B006X03E-C03	6	< 0.003	C	----	----	60	Standard
12	EF-1B006X04E-C03	6	< 0.003	C	6.5	175	60	Standard
13	EF-1B010X01E-C03	10	< 0.5	C	----	----	60	Standard
14	EF-1B010X02E-C03	10	< 0.5	C	6.5	175	60	Standard
15	EF-1B010X03E-C03	10	< 0.003	C	----	----	60	Standard
16	EF-1B010X04E-C03	10	< 0.003	C	6.5	175	60	Standard

- To compile complete part number, replace the 'X' with required I/O connection terminal. (e.g. EF-1B001C01E-C03)
- Maximum leakage under usual AC operating conditions (acc. IEC 60939-3). Note: if the neutral line is interrupted, worst case leakage could reach twice this level.
- Customize products provided on request.

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Connection Type

Current Rating (A)	Fast -on	Wire	Earthing
1,3 & 6	4.8 X 0.8mm	18AWG	Fast-on terminal/wires
10		14AWG	

Syntax

EF - 1B CCC X YY E - C03

