Datasheet | EB03
EP-322 Series

General Purpose AC EMI Filter

*Image shown is for illustrative purpose only

Approvals /Conformance

C US CE RoHS COMPLIANT

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 excluding surge suppressor filter)
Insulation resistance	≥ 300 MΩ @ 500VDC (PN→E)
Operating temperature	40°c /-25°c +85°C

Features and benefits

- All filters provide high attenuation performance.
- All filters compliance to EN60939-3:2015 & EN60939-2:2005 standards.
- Filter available in panel mounting provision.
- Single stage.
- High reliable.
- CRCA metal can with nickel plating provides good aesthetic and corrosion protection.
- Input connection through IEC 60320 C14 plug.
- Output connection with fast-on or wire terminal
- Filters available in medical version without capacitor to earth.
- With surge suppressor filters also available.

Application

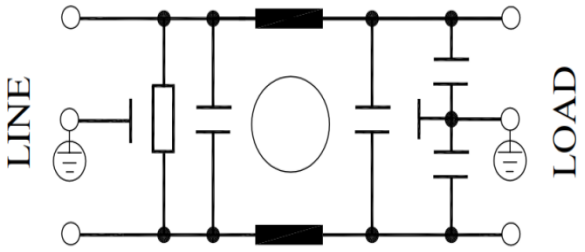
- Portable electrical and electronic equipment
- Datacom equipment
- Rack mounting equipment
- Control Panel
- Medical equipment
- Consumer product
- Medical equipment
- Industrial application
- Electrical automation equipment
- Test and measurement equipment

Attenuation type

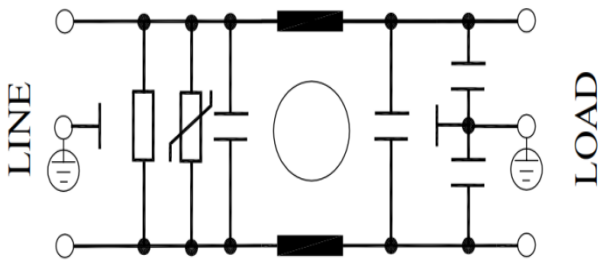
Single Stage **Standard**

Electrical schematic for filter:

General purpose –



General purpose with surge suppressor –



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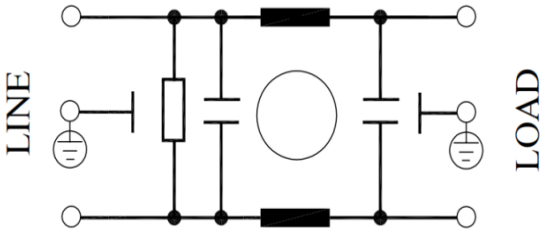
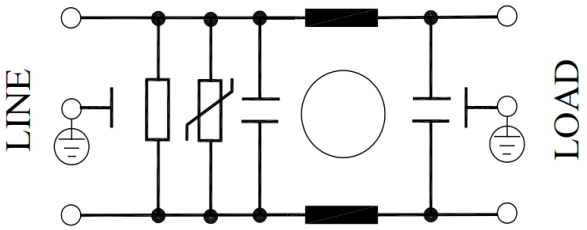
Electrical schematic for filter :

Medical equipment application –

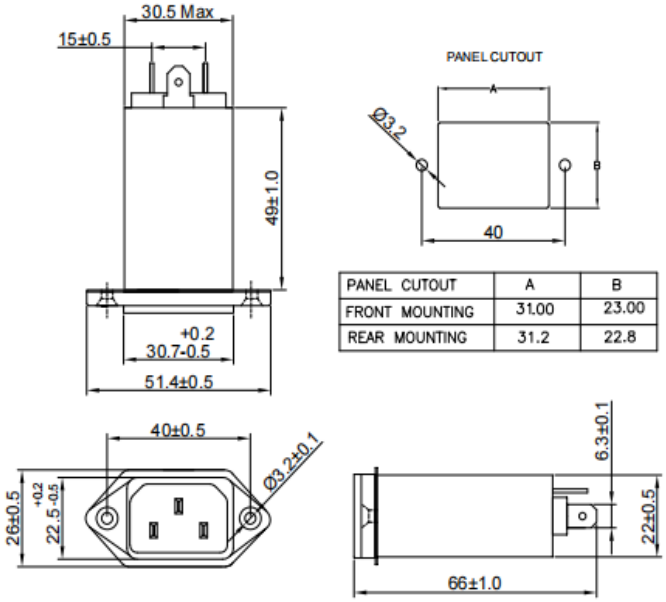


Medical equipment application with surge suppressor -



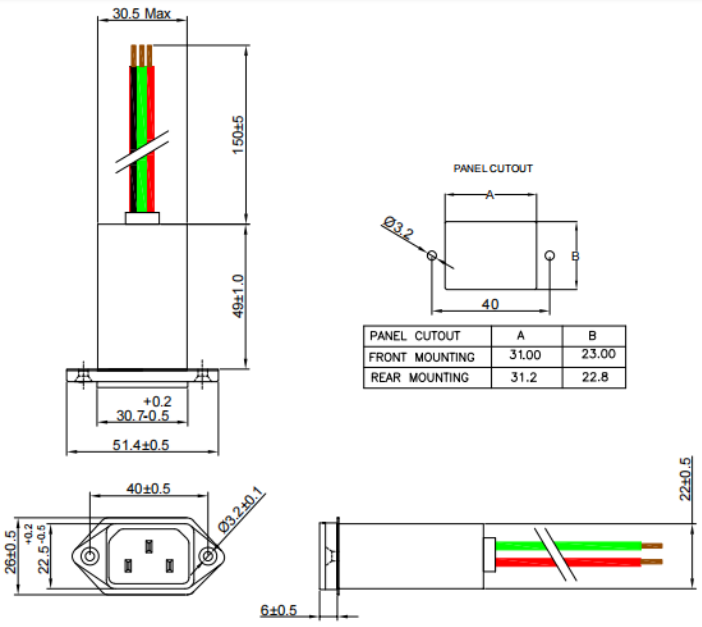
Mechanical Details

Fast-on terminal



PANEL CUTOUT	A	B
FRONT MOUNTING	31.00	23.00
REAR MOUNTING	31.2	22.8

Wire terminal



PANEL CUTOUT	A	B
FRONT MOUNTING	31.00	23.00
REAR MOUNTING	31.2	22.8

*All dimensions in mm.

Product Selection Table:

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	Wire				
1	EF-1B001X01E-B03	1	< 0.5	B	G	----	----	75	Standard
2	EF-1B001X02E- B03	1	< 0.5	B	G	6.5	175	75	Standard

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3	EF-1B001X03E- B03	1	< 0.003	B	G	----	----	75	Standard
4	EF-1B001X04E- B03	1	< 0.003	B	G	6.5	175	75	Standard
5	EF-1B003X01E- B03	3	< 0.5	B	G	----	----	75	Standard
6	EF-1B003X02E- B03	3	< 0.5	B	G	6.5	175	75	Standard
7	EF-1B003X03E- B03	3	< 0.003	B	G	----	----	75	Standard
8	EF-1B003X04E- B03	3	< 0.003	B	G	6.5	175	75	Standard
9	EF-1B006X01E- B03	6	< 0.5	B	G	----	----	75	Standard
10	EF-1B006X02E- B03	6	< 0.5	B	G	6.5	175	75	Standard
11	EF-1B006X03E- B03	6	< 0.003	B	G	----	----	75	Standard
12	EF-1B006X04E- B03	6	< 0.003	B	G	6.5	175	75	Standard
13	EF-1B010X01E- B03	10	< 0.5	B	G	----	----	75	Standard
14	EF-1B010X02E- B03	10	< 0.5	B	G	6.5	175	75	Standard
15	EF-1B010X03E- B03	10	< 0.003	B	G	----	----	75	Standard
16	EF-1B010X04E- B03	10	< 0.003	B	G	6.5	175	75	Standard

- To compile complete part number, replace the 'X' with required output connection terminal. (e.g., EF-1B001B01E-B03)
- 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.

Connection Method

Current Rating (A)	Fast -on	Wire	Earthing
1, 3 & 6	6.3 X 0.8mm	18AWG	Fast-on/wire leads
10		14AWG	

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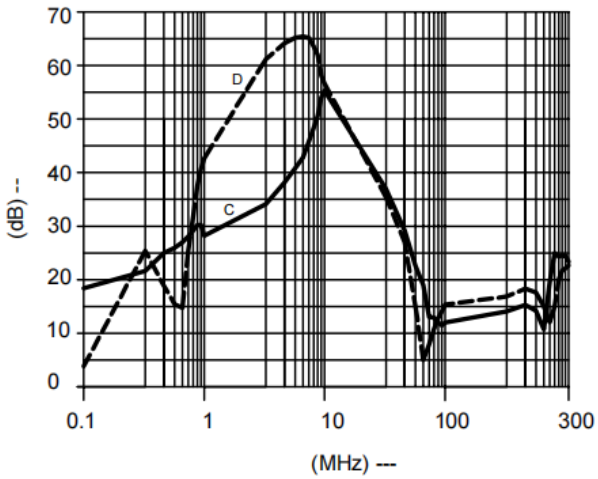
Filter attenuation graph

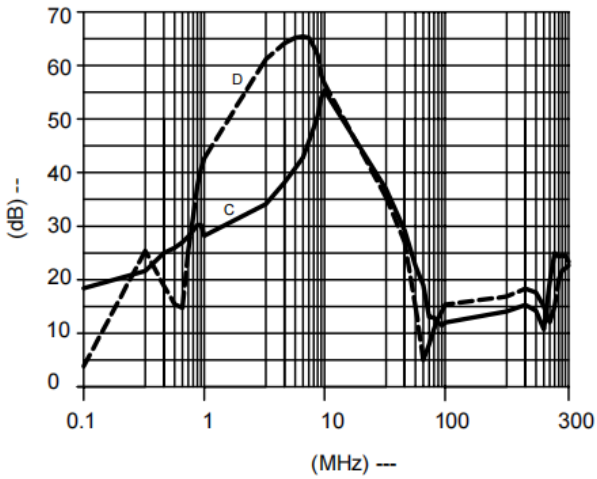
C = Common mode (asymmetrical) ————— D = Differential mode (symmetrical) ----------

For general purpose

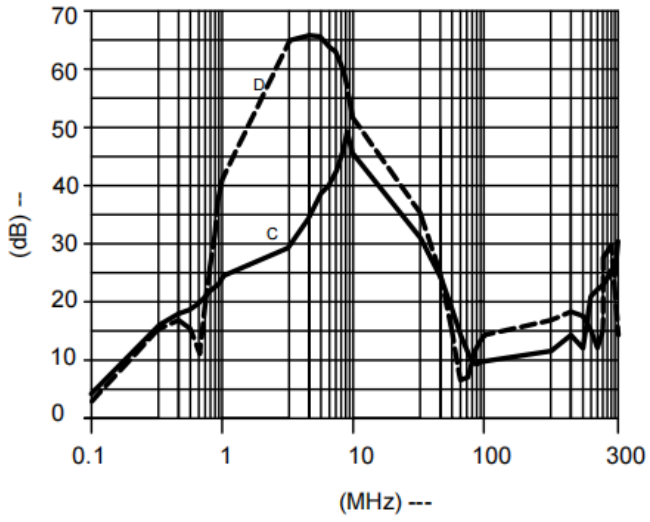
1A



3A



6A



10A