

Datasheet | EB07

EP-361-F1 Series



General Purpose AC EMI Filter

El.italia EC-EB07[EP-361-F1] serie



Image shown is for illustrative purpose only

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 filters)
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.
- | High reliable
- | CRCA metal can with nickel plating provides good aesthetic and corrosion protection.
- | Provides single fuse protection.
- | Input connection through IEC 60320 C14 plug
- | Have choice to select output connection type.
- | Filters available in medical version without capacitor to earth.
- | With surge suppressor filters also available.

Attenuation Type

Single Stage

Standard

Application

- | Consumer product
- | Medical equipment
- | Industrial application
- | Weighing machines
- | Electrical automation equipment
- | Testing and measurement equipment

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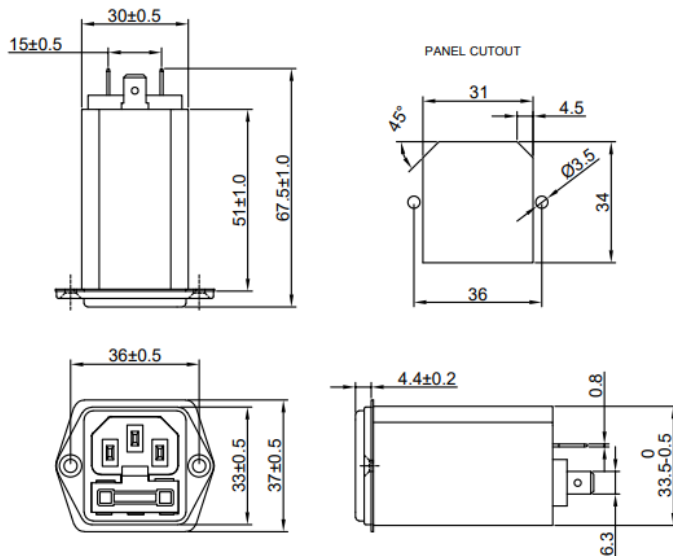
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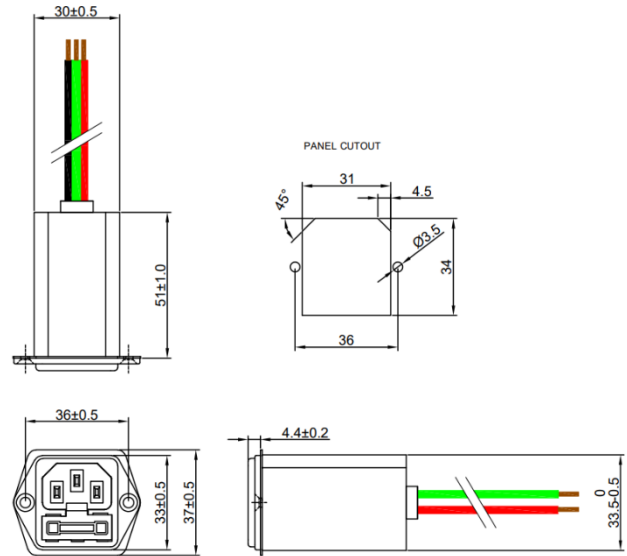
Mechanical details

| For Fast-on terminal



All dimensions in mm

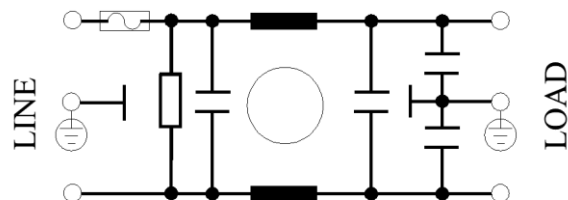
| For wire lead terminal



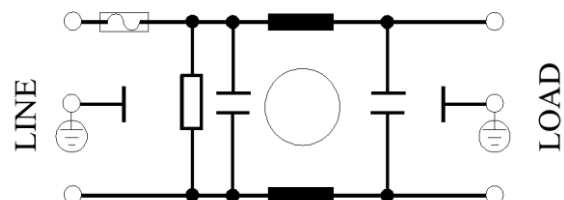
All dimensions in mm

Electrical schematic for Single Stage Filter

General Purpose -

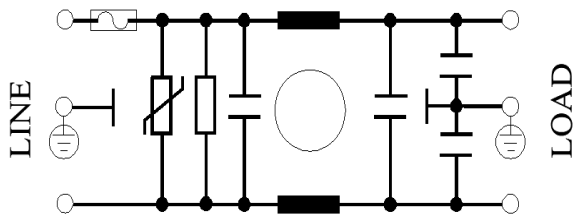


Medical equipment application -

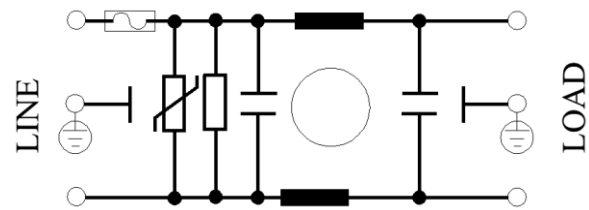


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General Purpose with Surge Suppressor –



Medical equipment application with Surge Suppressor -

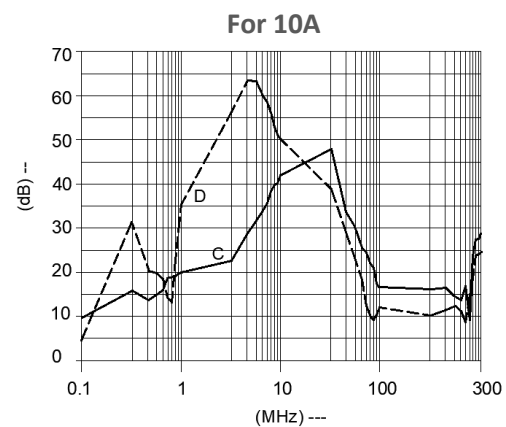
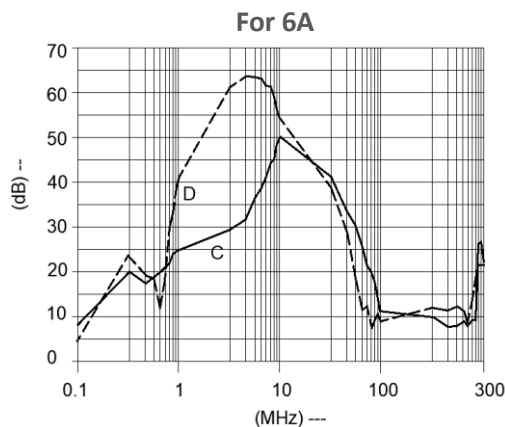
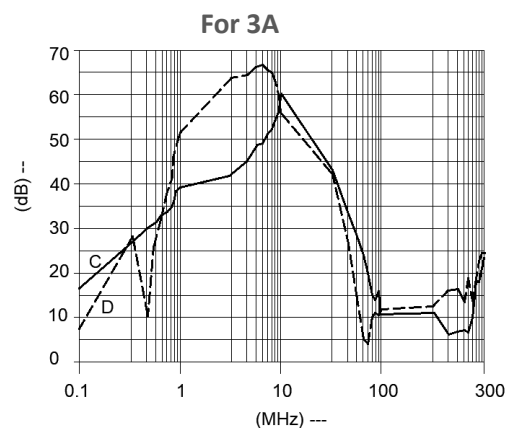
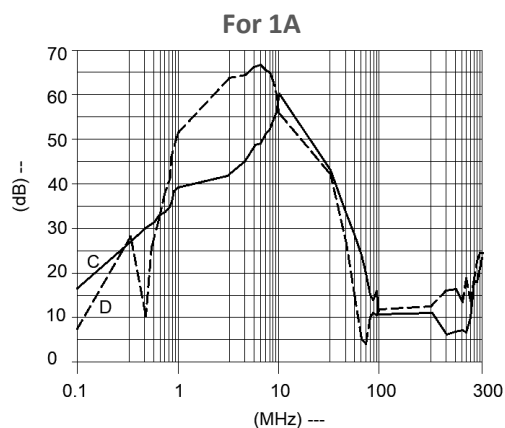


Filter attenuation Graph

C = Common mode (asymmetrical) ———

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

For General purpose



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Filter Selection Table

El.italia EC-EB07[EP-361-F1] serie

Sr. No.	Elcom part codes (ordering code)	Rated Current rating (A) @40°C	Leakage current (mA) @250VAC	Output terminals (X)		Max. Peak current (8/20 μ sec 1 time) (KA)	Energy surge rating (10/100 0 μ sec) (Joules)	Approx. Weight (gm)	Attenuation
				Fast-on	Wire				
1	EF-1B001X01E-B07	1	< 0.5	B	G	----	----	80	Standard
2	EF-1B001X02E-B07	1	< 0.5	B	G	6.5	175	80	Standard
3	EF-1B001X03E-B07	1	< 0.003	B	G	----	----	80	Standard
4	EF-1B001X04E-B07	1	< 0.003	B	G	6.5	175	80	Standard
5	EF-1B003X01E-B07	3	< 0.5	B	G	----	----	80	Standard
6	EF-1B003X02E-B07	3	< 0.5	B	G	6.5	175	80	Standard
7	EF-1B003X03E-B07	3	< 0.003	B	G	----	----	80	Standard
8	EF-1B003X04E-B07	3	< 0.003	B	G	6.5	175	80	Standard
9	EF-1B006X01E-B07	6	< 0.5	B	G	----	----	80	Standard
10	EF-1B006X02E-B07	6	< 0.5	B	G	6.5	175	80	Standard
11	EF-1B006X03E-B07	6	< 0.003	B	G	----	----	80	Standard
12	EF-1B006X04E-B07	6	< 0.003	B	G	6.5	175	80	Standard
13	EF-1B010X01E-B07	10	< 0.5	B	G	----	----	80	Standard
14	EF-1B010X02E-B07	10	< 0.5	B	G	6.5	175	80	Standard
15	EF-1B010X03E-B07	10	< 0.003	B	G	----	----	80	Standard
16	EF-1B010X04E-B07	10	< 0.003	B	G	6.5	175	80	Standard

- To compile complete part number, replace the 'X' with required output connection terminal. (e.g. EF-1B001B01E-B07)
- 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 Type

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

Syntax

EF - 1B CCC X YY Z - B07

