Datasheet | EA01 EP-402 Series



General Purpose AC EMI Filter



*Image shown is for illustrative purpose only

Features and benefits

- All filters provide high attenuation performance.
- All filters compliance to EN60939-3:2015 8 EN60939- 2:2005 standards.
- Compact PCB-mountable design.
- High reliable.
- Plastic housing with good aesthetic.
- | Single stage.
- Input and output connection through soldering pins.
- Filters available in medical version without capacitor
- With surge suppressor filters also available.
- Cost effective solution.

Application

- Electrical and electronic equipment
- Consumer product
- Medical equipment
- SMPS
- Test & measurement equipment
- Small to medium-sized machines and household equipment
- Office automation equipment

Approvals / Conformance







Technical Specifications

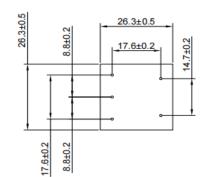
Operating voltage	120/250 VAC
Current rating	1A - 10A
Frequency	50/60Hz
Voltage drop	1 Volt max.
High potential test voltage	P -> E 1500VAC P -> N 1414VDC(Applicable for general purpose filter)
Insulation resistance	\geq 300 M Ω @ 500VDC (PN \rightarrow E)
Operating temperature	40°c /-25°c +85°C

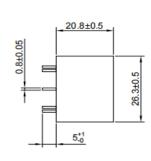
Attenuation type

Single Stage

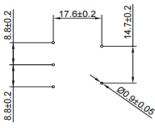
Standard

Mechanical Details





PCB DRILLING DETAILS



*All dimensions are in mm.

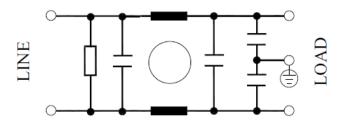
Note: For medical application filter, earthing terminal is not provided.

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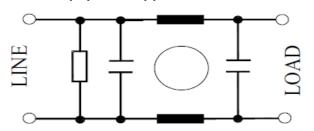


Electrical schematic for Filter

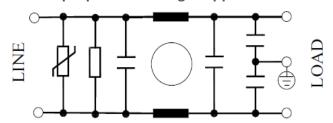
General purpose -



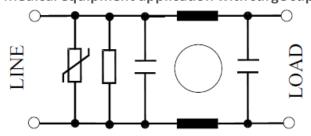
Medical equipment application -



General purpose with surge suppressor -



Medical equipment application with surge suppressor-



Filter Selection Table

Sr. No.	Elcom part codes (ordering code)	Rated Current rating (A) @40°c	Leakage current (mA) @250VAC	Pin-type terminal	Max. Peak current (8/20 μ sec 1 time) (KA)	Energy surge rating (10/1000 µ sec) (Joules)	Approx. weight (gm)	Attenuation
1	EF-1B001A01E-A01	1	< 0.5	А			25	Standard
2	EF-1B001A02E-A01	1	< 0.5	А	1.75	42	25	Standard
3	EF-1B001A03E-A01	1	< 0.003	А			25	Standard
4	EF-1B001A04E-A01	1	< 0.003	А	1.75	42	25	Standard
5	EF-1B003A01E-A01	3	< 0.5	А			25	Standard
6	EF-1B003A02E-A01	3	< 0.5	А	1.75	42	25	Standard
7	EF-1B003A03E-A01	3	< 0.003	А			25	Standard
8	EF-1B003A04E-A01	3	< 0.003	А	1.75	42	25	Standard

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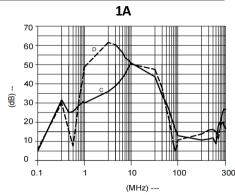
9	EF-1B006A01E-A01	6	< 0.5	А			25	Standard
10	EF-1B006A02E-A01	6	< 0.5	А	1.75	42	25	Standard
11	EF-1B006A03E-A01	6	< 0.003	А			25	Standard
12	EF-1B006A04E-A01	6	< 0.003	А	1.75	42	25	Standard
13	EF-1B010A01E-A01	10	< 0.5	А			25	Standard
14	EF-1B010A02E-A01	10	< 0.5	А	1.75	42	25	Standard
15	EF-1B010A03E-A01	10	< 0.003	А			25	Standard
16	EF-1B010A04E-A01	10	< 0.003	А	1.75	42	25	Standard

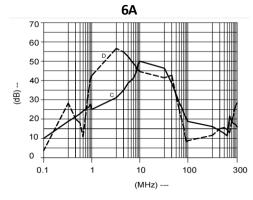
- Customize products provided on request.
- Maximum leakage under usual AC operating conditions (acc. IEC 60939-3). Note: if the neutral line is interrupted, worst case leakage could reach twice this level.

Filter attenuation graph

C = Common mode (asymmetrical) ————

For General application (Single Stage)





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

