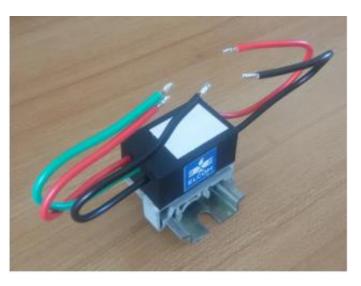
General Purpose AC EMI Filter



*Image shown is for illustrative purpose only

Features and benefits

- I All filters provide high attenuation performance.
- All filters compliance to EN60939-3:2015 & EN60939- 2:2005 standards.
- I Compact drill rail mounting design.
- High reliable.
- I Plastic housing with good aesthetic.
- Single stage.
- I Input and output connection through wire
- I Filters available in medical version without capacitor to earth.
- I With surge suppressor filters also available.
- I Cost effective solution.

Attenuation Type

Single Stage

Standard

Applications

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

ELCOM El.italia EC-EE03 serie

CE ROHS

Technical specifications

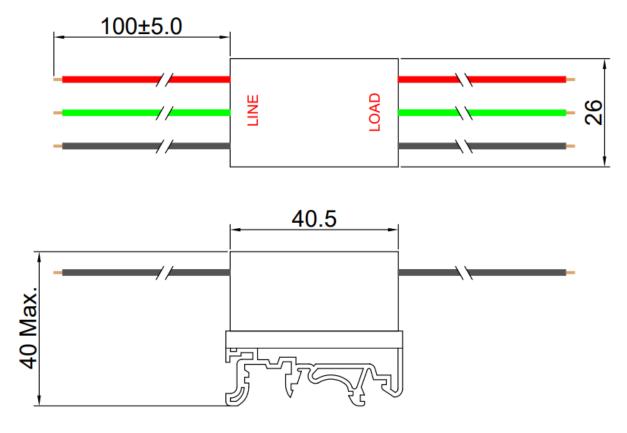
Operating voltage	120/250 VAC
Current rating	1A-10A
Frequency	50/60Hz
Voltage drop	1 Volt max.
High potential test voltage	P -> E 1500VAC
	P -> N 1414VDC (applicable for
	excluding surge suppressor filter)
Insulation resistance	≥ 300 MΩ @ 500VDC (PN→E)
Operating temperature	40°c /-25°c +85°c







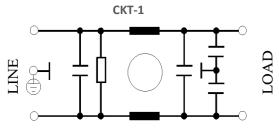
Mechanical details



All dimensions in mm General tolerance=±2%

Electrical schematic for Single Stage Filter

General purpose -



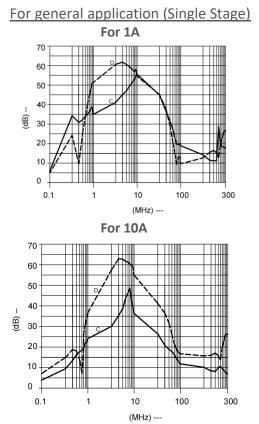


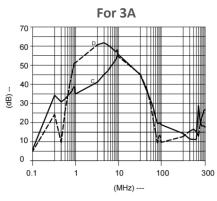


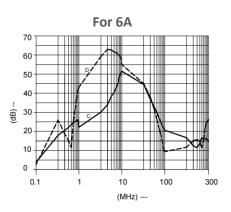
Filter attenuation Graph

C = Common mode (asymmetrical) ------

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







Filter Selection Table

Sr. No.	Elcom part codes (ordering code)	Rated Current rating (A) @40°c	Leakage current (mA) @250VAC	Terminal Wire	Approx. Weight (gm)	Attenuation
1	EF-1B001G01G-E03	1	< 0.5	G	75	Standard
2	EF-1B003G01G-E03	3	< 0.5	G	75	Standard
3	EF-1B006G01G-E03	6	< 0.5	G	75	Standard
4	EF-1B010G01G-E03	10	< 0.5	G	75	Standard

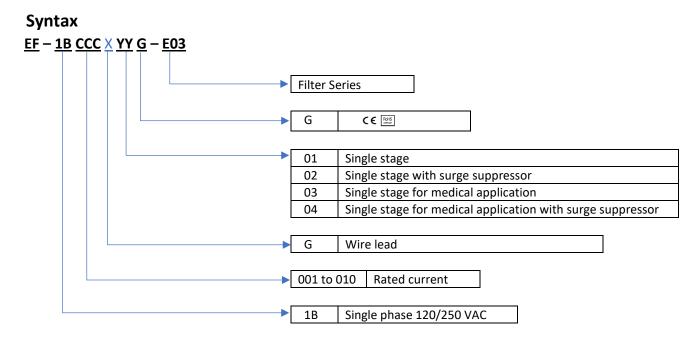


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Connection Type

Current Rating (A)	Wire terminal	Earthing
1&3	0.5 sqmm	
6	0.75 sqmm	Wire lead
10	1 sqmm	



- To compile complete part number, replace the 'X' with required I/O connection terminal. (e.g. EF-1B001G01G-E03).
- 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.



General Purpose AC EMI Filter



*Image shown is for illustrative purpose only

Features and benefits

- I All filters provide high attenuation performance.
- I All filters compliance to EN60939-3:2015 & EN60939- 2:2005 standards.
- Compact din rail mounting design.
- High reliable.
- I Plastic housing with good aesthetic.
- Single stage.
- I Input and output connection through touch safe terminal
- I Filters available in medical version without capacitor to earth.
- I With surge suppressor filters also available.
- I Cost effective solution.



El.italia EC-EE04 serie

CE ROHS

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	≥ 300 MΩ @ 500VDC (PN→E)
Operating temperature	40°c /-25°c +85°c

Attenuation Type

Single Stage

Standard

Applications

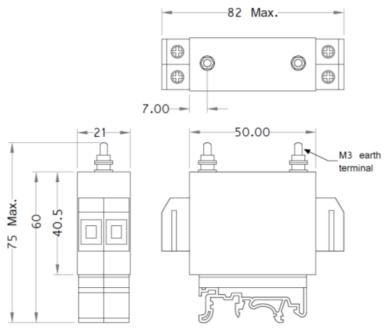
- I Consumer product
- I Defence application
- I Medical equipment
- I Industrial application
- I Automotive application
- I Weighting Machines
- Printing Machinery
- I Electrical equipment application
- I Office automation equipment

9 EL.ITALIA SRL



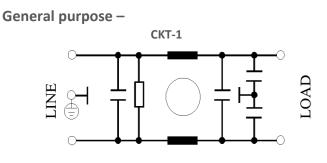
Mechanical details

For touch safe terminal



All dimensions in mm

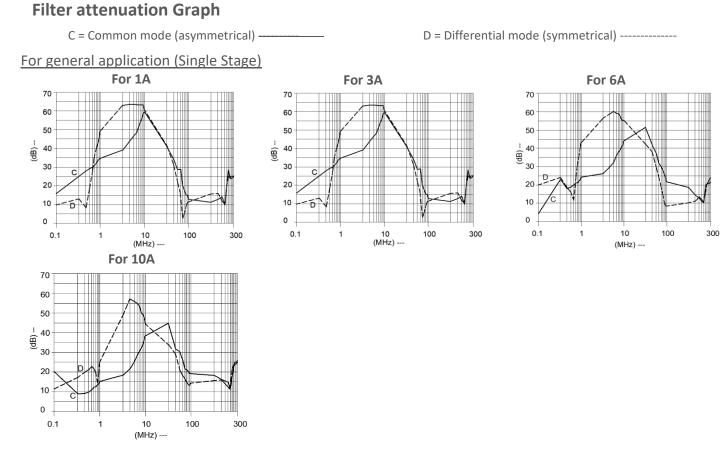
Electrical schematic for Single Stage Filter







El.italia EC-EE04 serie



Filter Selection Table

Sr. No.	Elcom part codes (ordering code)	Rated Current rating (A) @40°c	Leakage current (mA) @250VAC	Terminals (X) Touch safe	Approx. Weight (gm)	Attenuation
1	EF-1B001F01G-E04	1	< 0.5	F	100	Standard
2	EF-1B003F01G-E04	3	< 0.5	F	100	Standard
3	EF-1B006F01G-E04	6	< 0.5	F	100	Standard
4	EF-1B010F01G-E04	10	< 0.5	F	100	Standard

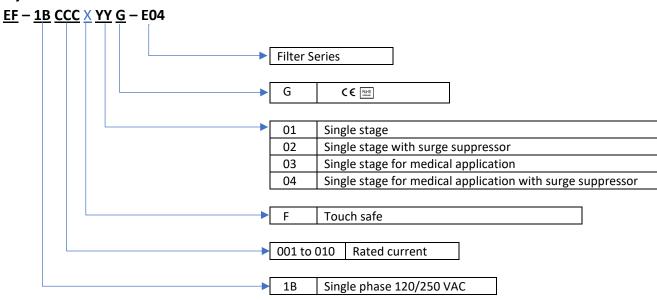




Connection Type

Current Rating (A)	Touch safe terminal	Earthing
1A-10A	6 sqmm	screw

Syntax



- To compile complete part number, replace the 'X' with required I/O connection terminal. (e.g. EF-1B001F01G-E04).
- 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.
- Recommended tightening torque for touch safe For 6 sqmm. 10.6-13 lbf.in.
- Customize products provided on request.



General Purpose AC EMI Filter



*Image shown is for illustrative purpose only

Features and benefits

- Filters available in single stage.
- I All filters provide high attenuation performance.
- All filters compliance to EN60939-3:2015 & EN60939-2:2005 standards.
- I High reliable
- I Easy and fast din rail mounting filter with compact size.
- I CRCA metal can with nickel plating provides good aesthetic and corrosion protection.
- Filters available in medical version without capacitor to earth.
- I General purpose filters with low leakage current for safety critical application.
- I With surge suppressor filters also available.



El.italia EC-EE05 serie

CE ROHS

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	≥ 300 MΩ @ 500VDC (PN→E)
Operating temperature	40°c /-25°c +85°c

Attenuation Type

Single Stage

Standard

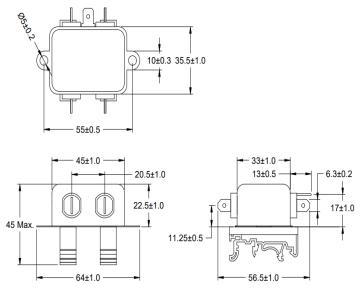
Applications

- I Medical equipment
- I Industrial application
- I Automotive application
- I Electrical equipment application
- I Office automation equipment



Mechanical details

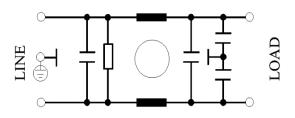
For fast-on terminal



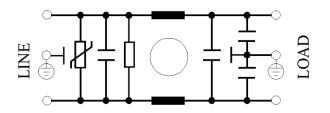
All dimensions in mm

Electrical schematic for Single Stage Filter

General purpose –

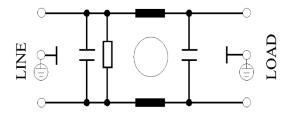


General purpose with Surge Suppressor -

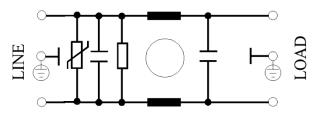


EL.ITALIA SRL

Medical equipment application -



Medical application with Surge Suppressor -







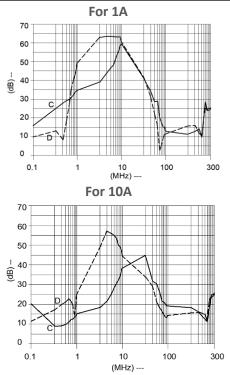
Filter attenuation Graph

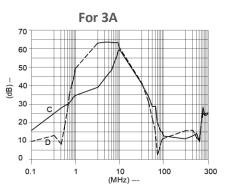
C = Common mode (asymmetrical) ---

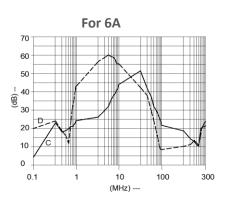


D = Differential mode (symmetrical) ------

For general application (Single Stage)











Filter Selection Table

El.italia EC-EE05 serie

Sr. No.	Elcom part codes (ordering code)	Rated Current rating (A) @40°c	Leakage current (mA) @250VAC	Terminals (X) Fast-on	Approx. Weight (gm)	Attenuation
1	EF-1B001B01G-E05	1	< 0.5	В	120	Standard
2	EF-1B001B02G-E05	1	< 0.5	В	120	Standard
3	EF-1B001B03G-E05	1	< 0.003	В	120	Standard
4	EF-1B001B04G-E05	1	< 0.003	В	120	Standard
5	EF-1B003B01G-E05	3	< 0.5	В	120	Standard
6	EF-1B003B02G-E05	3	< 0.5	В	120	Standard
7	EF-1B003B03G-E05	3	< 0.003	В	120	Standard
8	EF-1B003B04G-E05	3	< 0.003	В	120	Standard
9	EF-1B006B01G-E05	6	< 0.5	В	120	Standard
10	EF-1B006B02G-E05	6	< 0.5	В	120	Standard
11	EF-1B006B03G-E05	6	< 0.003	В	120	Standard
12	EF-1B006B04G-E05	6	< 0.003	В	120	Standard
13	EF-1B010B01G-E05	10	< 0.5	В	120	Standard
14	EF-1B010B02G-E05	10	< 0.5	В	120	Standard
15	EF-1B010B03G-E05	10	< 0.003	В	120	Standard
16	EF-1B010B04G-E05	10	< 0.003	В	120	Standard

- To compile complete part number, replace the 'X' with required I/O connection terminal. (e.g. EF-1B001<u>B</u>01G-E05).

- 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.

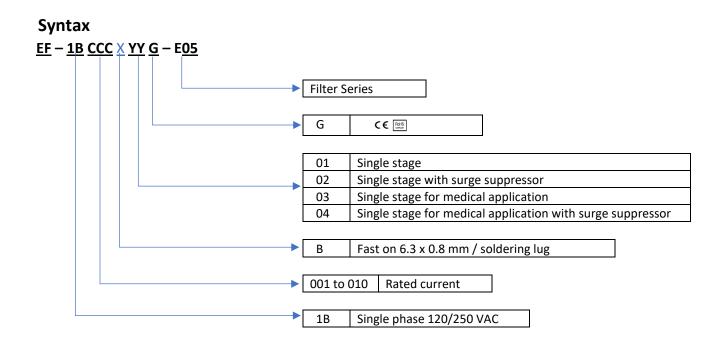
- Customize products provided on request.



Connection Type



Current Rating (A)	Input & output terminal	
1A-10A	Fast -on 6.3 X 0.8mm	





General Purpose AC EMI Filter



*Image shown is for illustrative purpose only

Features and benefits

- Filters available in single stage and double stage Π.
- All filters provide high attenuation performance. Т
- Π. Two stage filters designed for noisy application requiring excellent filter performance.
- All filters compliance to EN60939-3:2015 & EN60939-2:2005 standards.
- I High reliable
- Easy and fast drill rail mounting filter with compact size.
- CRCA metal can with nickel plating provides good aesthetic and corrosion protection.
- Filters available in medical version without 1 capacitor to earth.
- I General purpose filters with low leakage current for safety critical application.
- With surge suppressor filters also available. L.



El.italia EC-EE06 serie

CE ROHS COMPLIANT

Technical specifications

Operating voltage	120/250 VAC
Current rating	1A-20A
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	≥ 300 MΩ @ 500VDC (PN→E)
Operating temperature	40°c /-25°c +85°c

Attenuation Type

Single Stage	Standard
Double Stage	High

Applications

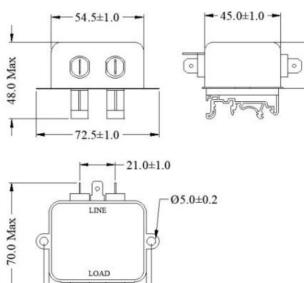
- Consumer product Ľ.
- Defence application T
- Medical equipment
- Industrial application
- Automotive application
- Weighting Machines
- Printing Machinery
- Electrical equipment application L
- Office automation equipment L



Mechanical details

1

For fast-on terminal



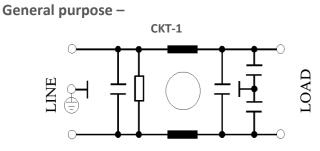
I

27±1.0

All dimensions in mm

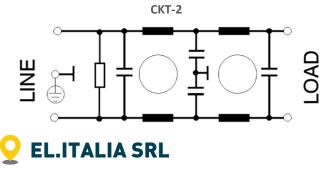
- 57.5±5 -63.5±1.0

Electrical schematic for Single Stage Filter

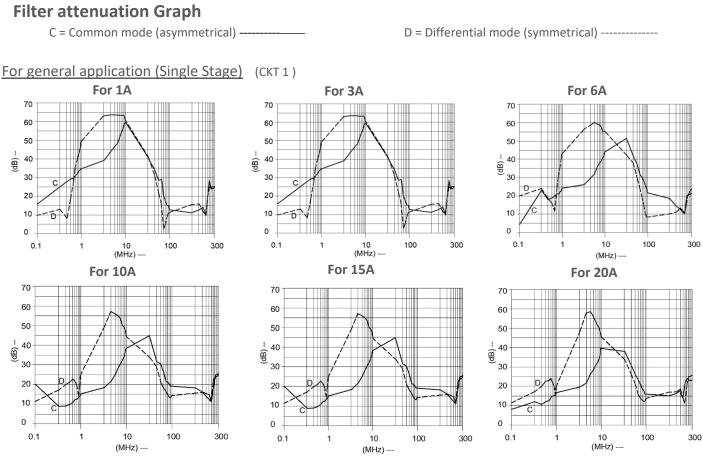


Electrical schematic for Double Stage Filter

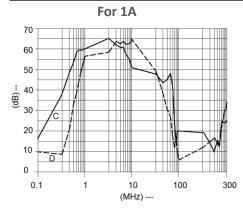
General purpose -

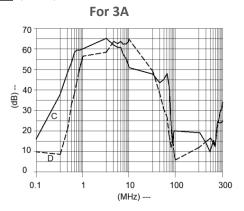


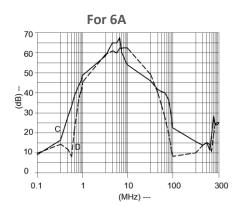




For general application (Double Stage) (CKT 2)



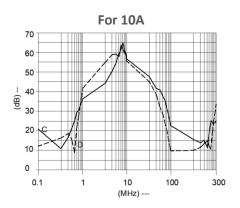


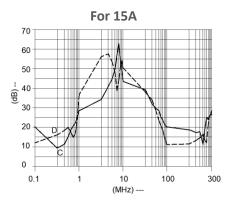


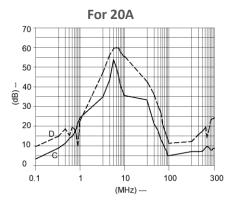












Filter Selection Table

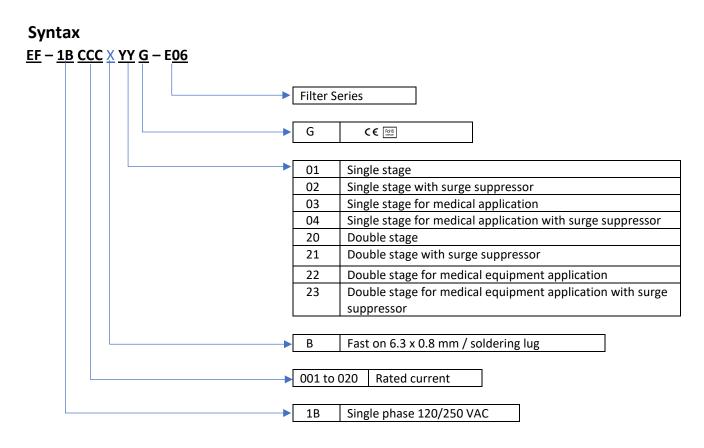
Sr. No.	Elcom part codes (ordering code)	Rated Current rating (A) @40°c	Leakage current (mA) @250VAC	Terminals (X) Fast-on	Approx. Weight (gm)	Attenuation
1	EF-1B001B01G-E06	1	< 0.5	В	150	Standard
2	EF-1B003B01G-E06	3	< 0.5	В	150	Standard
3	EF-1B006B01G-E06	6	< 0.5	В	150	Standard
4	EF-1B010B01G-E06	10	< 0.5	В	150	Standard
5	EF-1B015B01G-E06	15	< 0.5	В	150	Standard
6	EF-1B020B01G-E06	20	< 0.5	В	150	Standard
7	EF-1B001B20G-E06	1	< 0.5	В	150	High
8	EF-1B003B20G-E06	3	< 0.5	В	150	High
9	EF-1B006B20G-E06	6	< 0.5	В	150	High
10	EF-1B010B20G-E06	10	< 0.5	В	150	High
11	EF-1B015B20G-E06	15	< 0.5	В	150	High
12	EF-1B020B20G-E06	20	< 0.5	В	150	High





Connection Type

Current Rating (A)	Fast -on terminal	Earthing
1A-20A	6.3 X 0.8mm	Fast-on



- To compile complete part number, replace the 'X' with required I/O connection terminal. (e.g. EF-1B001<u>B</u>20G-E06).

- 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.

