

General Purpose AC EMI Filter



^{*}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 aluminium 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.

Application

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

Conformance



Technical Specifications

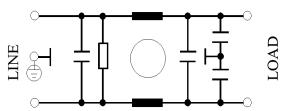
Operating voltage	120/250 VAC
Current rating	1A - 20A
Frequency	50/60Hz
Voltage drop	1 Volt max.
High potential test voltage	P -> E 1500VAC P -> N 1414VDC (applicable excluding surge suppressor filter)
Insulation resistance	≥ 300 MΩ @ 500VDC (PN→E)
Operating temperature	40°c /-25°c +85°C

Attenuation type

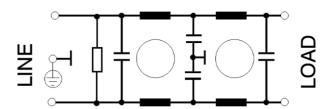
Single Stage	Standard
Double Stage	High

Electrical schematic for single stage filter: General purpose –

CKT1

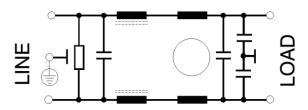


Electrical schematic for single stage filter: General purpose CKT2-

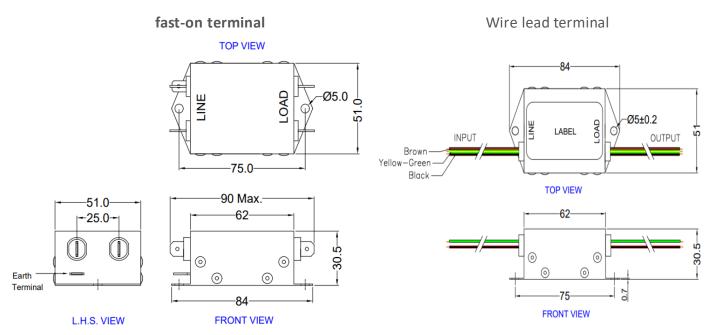




General Purpose CKT3



Mechanical Details



All dimensions in mm

Filter Selection Table:

		Rated	Leakage	Terminals (<u>X</u>)			
Sr. No.			Wire	Approx. Weight Attenuatio			
1	EF-1B001 <u>X</u> 01G-C06	1	< 0.5	В	G	150	Standard
2	EF-1B003 <u>X</u> 01G-C06	3	< 0.5	В	G	150	Standard
3	EF-1B006 <u>X</u> 01G-C06	6	< 0.5	В	G	150	Standard
4	EF-1B010 <u>X</u> 01G-C06	10	< 0.5	В	G	150	Standard
5	EF-1B015 <u>X</u> 01G-C06	15	< 0.5	В	G	150	Standard
6	EF-1B020 <u>X</u> 01G-C06	20	< 0.5	В	G	150	Standard
7	EF-1B001 <u>X</u> 20G-C06	1	< 0.5	В	G	150	High
8	EF-1B003 <u>X</u> 20G-C06	3	< 0.5	В	G	150	High

	6	0
	X	=
= 1		_

9	EF-1B006 <u>X</u> 20G-C06	6	< 0.5	В	G	150	High
10	EF-1B010 <u>X</u> 20G-C06	10	< 0.5	В	G	150	High
11	EF-1B015 <u>X</u> 20G-C06	15	< 0.5	В	G	150	High
12	EF-1B020 <u>X</u> 20G-C06	20	< 0.5	В	G	150	High
13	EF-1B003 <u>X</u> 24G-C06	3	<1.0	В	G	150	High
14	EF-1B006 <u>X</u> 24G-C06	6	<1.0	В	G	150	High
15	EF-1B010 <u>X</u> 24G-C06	10	<1.0	В	G	150	High

- To compile complete part number, replace the 'X' with required I/O connection terminal. (e.g. EF-1B001B20G-C06).
- 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

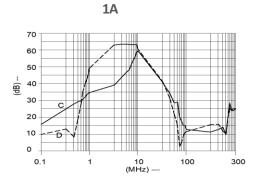
Current Rating (A)	Wire terminal	Fast -on terminal	Earthing
1 & 3	0.5 sqmm		
6	0.75 sqmm		Wire lead/Fast-on
10	1 sqmm	6.3 X 0.8mm	
15	1.5 sqmm		
20	2.5 sqmm		

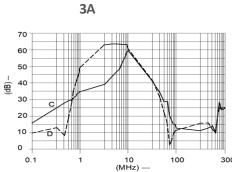
Filter attenuation graph

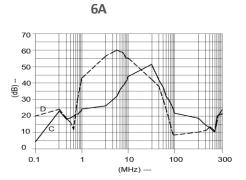
C = Common mode (asymmetrical) —

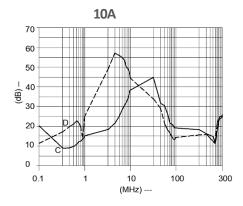
D = Differential mode (symmetrical) ------

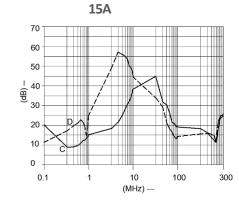
For general purpose

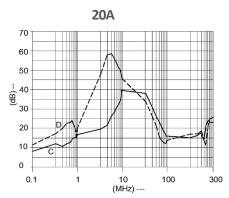






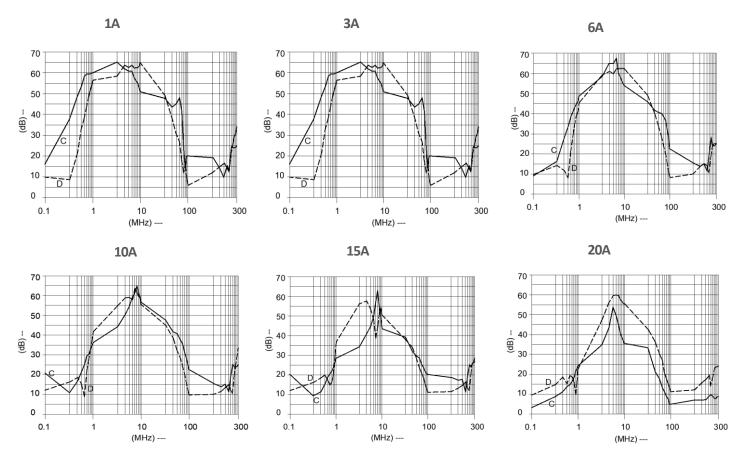








For general application (Double Stage) (CKT 2)



For general application (Double Stage) (CKT 3)

