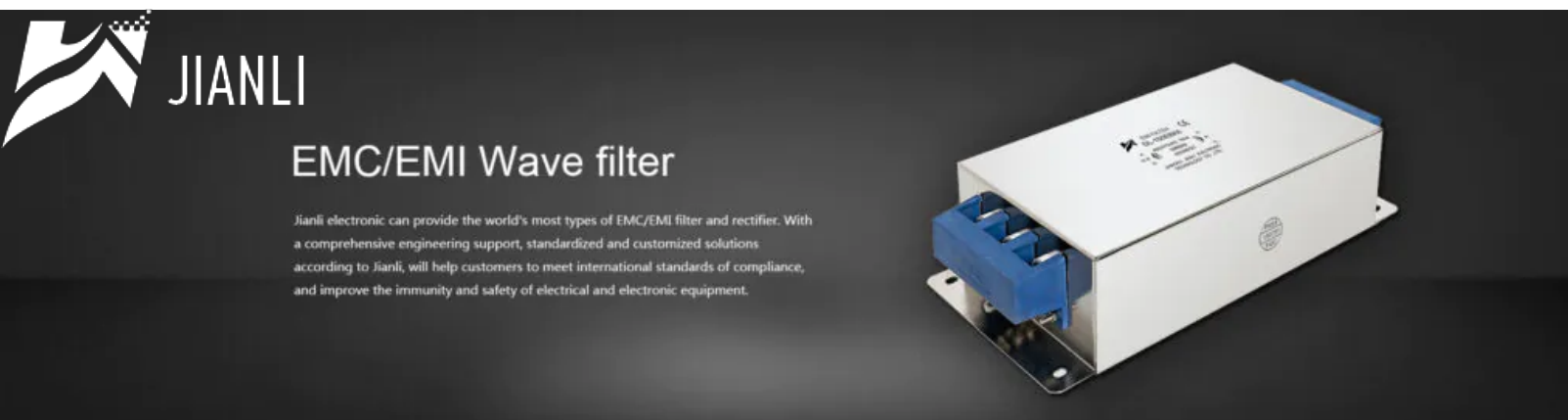




JIANLI

EMC/EMI Wave filter

Jianli electronic can provide the world's most types of EMC/EMI filter and rectifier. With a comprehensive engineering support, standardized and customized solutions according to Jianli, will help customers to meet international standards of compliance, and improve the immunity and safety of electrical and electronic equipment.



Введение

Jiangsu Jianli Electronic Technology Co., Ltd. является одним из ведущих производителей фильтров ЭМС в Китае. Более 60 лет профессионального производственного опыта и высокая репутация являются нашим преимуществом. Мы впервые получили квалификацию ISO 9001-2008 линий фильтров в Китае и квалификацию для сертификации системы менеджмента качества. Наши фильтры были официально сертифицированы перечисленными агентствами: UL, CSA, VDE и CE.

Наши фильтры линий электропередач широко применяются в электронном промышленном оборудовании и были успешно установлены в электронных промышленных шкафах управления, океанских научно-исследовательских судах и даже космических кораблях. Наша компания предоставляет предварительное тестирование фильтров ЭМС для клиентов.

Вся продукция поможет вашему электронному оборудованию эффективно подавлять электромагнитные помехи, передаваемые по линии электропередачи, и соответствовать требованиям стандартов ЭМС.

EMI/EMC
FILTER

EMI/EMC FILTER

本公司的电源滤波器根据客户要求, 分别满足IEC939-1、IEC939-2、EN133000、EN133200、UL1283、CSA C22.2No.8、GB/T15287、GB/T15288、VDE0565-3标准。 本手册涉及的电源滤波器由无源元件(L.R.C)组成, 含有共模和差模衰减网络。滤波器与接入端阻抗失配越大, 干扰信号越难以通过, 滤波器的阻断作用越强。

插入损耗

插入损耗(IL)是滤波器插入电路之前和插入之后, 在电路终端所测得的电压之比。为了测试与计算的方便, 令源阻抗和负载阻抗等于 50Ω , 电压表达式:

$$IL=20\log_{10} \frac{V_{01}}{V_{02}}$$

工作电流

在不同的使用环境下(尤其是环境温度), 操作电流 I_{op} 应作适当调整, 上限类别温度为 85°C 的电源滤波器操作电流可按下式计算, $I_{op} = I_N \sqrt{(85-\theta)/45}$ 式中 θ 为实际工作环境温度。

泄漏电流

泄漏电流是指滤波器通电时, 在额定电压下, 相线和中线与外壳流过的交流电流, 它主要由电容器(称为Y电容器)引起, 并非绝缘不良造成, 选用Y电容器时已对安全性作了充分考虑。

耐压测试方法

标准规定:电压从零开始, 以不超过 150V/S 的速度缓慢升压到试验电压, 试验时间从达到试验电压开始计算, 通常为一分钟, 试验时间结束时必须将试验电压降到接近于零, 并对滤波器内部电容器上的电压通过一个合适的电阻器放电。

本公司接受用户定制滤波器, 包括OEM。

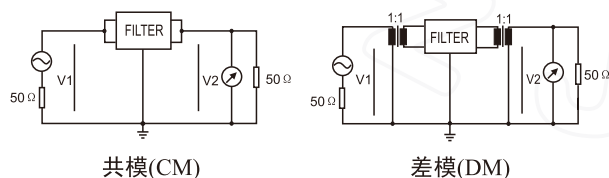
(技术参数如有变更, 恕不另行通知; 所列参数仅供参考, 以实物为准)。

使用指南



单相插入损耗测试原理图

Single Phase Insertion Loss Test fig

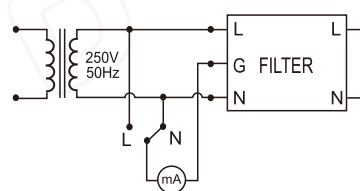


共模(CM)

差模(DM)

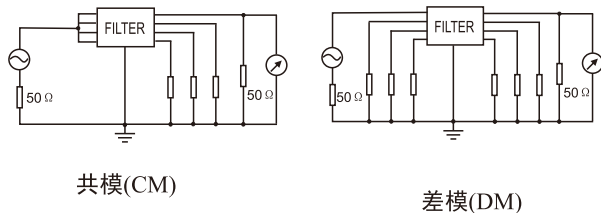
单相泄漏电流测试图

Single Phase Leakage Current Test fig



三相插入损耗测试原理图

Three Phase Insertion Loss Test fig

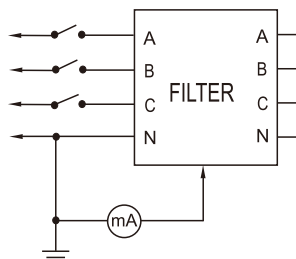


共模(CM)

差模(DM)

三相泄漏电流测试图

Three Phase Leakage Current Test fig



Our Power Line Filters according to the customer requirement to satisfy the IEC939-1, IEC939-2, EN133200, UL1283, CSA C22.2No.8, GB/T 15287, VDE0565-3 Standards. The filters involved in this manual is composed passive components (L.R.C.), including common-mode (CM) and differential-mode (DM) insertion loss net., The greater the mismatch of filter impedance to input termination, the more difficult the interference signal will pass through, and stronger the filter is in block.

Insertion Loss:

Insertion Loss (IL) is the ratio of the voltage at the circuit termination before and after the insertion of the filter. Considering the test & calculation, where cause: source impedance=load impedance=50 Ω, expressed in terms of the voltages:

$$IL=20\log_{10} \frac{V_{01}}{V_{02}}$$

Operating Current:

Under different environment (especial under environment temperature), operating current I_{op} must be a bit of regulated, which up-limited classify temperature is 85℃ will be calculated as below: I_{op}= I_N[(85-θ)/45] = actual operating environment temperature

Leakage Current:

Leakage current is a current passing through phase line or neutral line to ground. It is mainly caused by the capacitors (called Y capacitors) to the earth. The maximum value of the leakage current have to be limited for safety.

Withstanding voltage test method

Standard request: voltage from 0 with the speed lower than 150v/s raised slowly up to test voltage, the time will be counted of 1 minute beginning from the test voltage. The voltage must be reduced to 0 once test time is over, and discharge the voltage of the internal capacitor of filter through a suitable resistor.

Our company accept the customer's special order, including OEM.

(All data only for reference, please subject to the final objects; Any changes on data will not be informed separately).

Introduction

国家及测试机构 Country & test Authority			认证标志 Recognized Mark	测试标准 Test Standard
德国	VDE	Germany VDE		EN60939
加拿大	CSA	Canada CSA		CSA C 22,2
美国	UL	U.S.A. UL		UL 1283
欧共体	E.E.C.	CE		EN60939

产品命名规则: Rule of nomination

电源滤波器 mains filter	DL-	100	EAK	3	1	/10
		第1区	第2区	第3区	第4区	第5区

各 区 位 标 识 定 义

额定电流 Rated current 第1区 (阿拉伯数字表示) Indicate with number	应用及安装方式 application and installing type 第2区 (英文字母表示) Indicate With letter	安装脚方向 the direction of installing 第3区 (阿拉伯数字表示) Indicate with number	电 路 circuit 第4区 (阿拉伯数字表示) Indicate with number	接线方式 connector 第5区 (/ 阿拉伯数字表示) Indicate with number
Current (A)	D-交流AC F-直流DC EA-three phases four wires EB-three phases three wires K、T-多级滤波 multi-stages type H-带差模电感 with differential mode choke type X-接线方式为引线 lead type DZ-插座式 socket type PC-PCB安装 pcb type DT-圆筒式 cylinder type TC-馈通式 feedthrough type	1-与接线端子水平方向 horizontal to connector 3-与接线端子垂直方向 vertical to connector 5-专用系列 6-专用系列 special purpose 省略-特殊结构 Omit-special structure	电路参数与电路结 构序列号 The parameter and structure of circuit	01-插片 plug 10-螺栓 screw 20-引线 lead 30-菲尼克斯 phoenix connector 40-端子台 terminal row 50-欧式端子 European terminal row 60-母排 bus bar



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EA三相四线滤波器 3 Phase , 4 Lines Series , AC Filters

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* 更多选型, 欢迎来电咨询!
More choice, please send your inquiry!

特点 Features

- 常规通用
General purpose
- 安装方便
Easy to install



应用 Applications

- 用于各种电子设备和电子测量仪器
For electronic equipments and measuring instruments

技术参数 Technical Data

额定电压 Rated Voltage	250VAC
工作频率 Operating Frequency	50/60Hz
额定电流 Rated Current	1A-200A
耐压试验:(一分钟) Test Voltage (1min)	1500VDC (line/line) 1500VAC (line/ground)
气候类别 Climatic Category	25/085/21

型 号 Model	端子方式 Terminal		额定电流 Rated Current (A)	接地电容量 Ground Capacitance (nF)	泄漏电流 Leakage Current ≤(mA)	放电电阻 Discharge Resistance (MΩ)	电路图 Circuit Diagram fig.	外形尺寸 Dimension fig. 见附录 (36页) See appendix P36
	入 Input	出 Output						
DL-1D3			1	4.7	0.8		2	B1
DL-2D1			2	3.3	0.5		1	A1
DL-3D1			3	3.3	0.5		1	A1
DL-3D3			3	3.3	0.5		1	B1
DL-6D1			6	3.3	0.5		1	A2
DL-6D11			6	3.3	0.5		1	A1
DL-6D3			6	3.3	0.5		1	B1
DL-10D			10	3.3	0.5	1.5	3	A2
DL-15D1			15	3.3	0.5	1.5	2	A2



型 号 Model	端子方式 Terminal		额定电流 Rated Current (A)	接地电容量 Ground Capacitance (nF)	泄漏电流 Leakage Current ≤(mA)	放电电阻 Discharge Resistance (MΩ)	电路图 Circuit Diagram fig.	外形尺寸 Dimension fig. 见附录 (77页) See appendix P77
	入 Input	出 Output						
DL-15D3			15	3.3	0.5	1.5	2	B2
DL-20D11			20	4.7	0.8	0.44	2	D1
DL-20D3			20	3.3	0.5	1.5	2	B2
DL-25D1			25	3.3	0.5	1.5	2	D1
DL-30D1			30	3.3	0.5	1.5	2	D1
DL-35D3			35	4.7	0.8	1.5	2	E2
DL-50D3			50	4.7	0.8	1.5	2	E2
DL-60D3			60	4.7	0.8	1.5	2	E2
DL-100D3			100	6.8	1.0	1.5	2	E4
DL-120D3			120	6.8	1.0	1.5	2	E4
DL-150D1			150	6.8	1.0	1.5	2	G7
DL-150D3			150	6.8	1.0	1.5	2	E4
DL-200D1			200	6.8	1.0	1	2	G4
DL-1DX13			1	2.2	0.5		1	AX2
DL-1DX16			1	5.0	0.8		5	AX1
DL-1DX31			1	4.7	0.8		2	BX1
DL-3DX31			3	2.2	0.5		1	BX1
DL-6DX1			6	2.2	0.5		1	AX3
DL-10DX1			10	2.2	0.5		1	AX3
DL-20DX1			20	3.3	0.5	1.5	2	AX4
DL-3DT			3	3.3	0.5	1.5	4	I1
DL-6DT			6	3.3	0.5	1.5	4	I1
DL-8DT			8	6.8	1.0	0.15	4	I2
DL-10DT			10	4.7	0.8	0.47	3	I3
DL-16DT			16	22	2.0	0.68	3	I4

电原理图 Typical Circuit Diagram

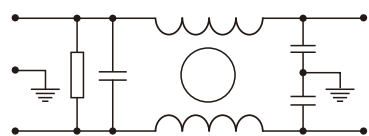


fig.1

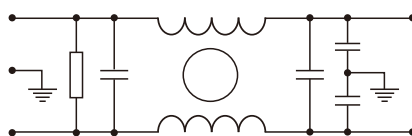


fig.2

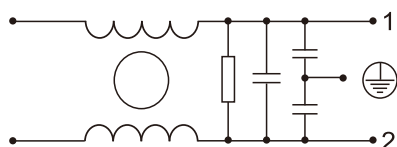


fig.3

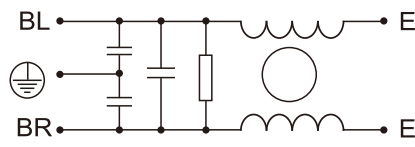


fig.4

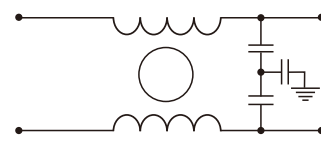


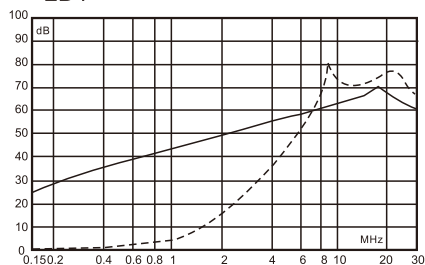
fig.5



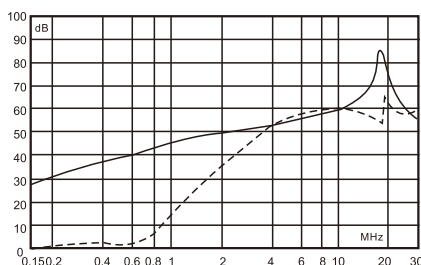
插入损耗 Insertion Loss in dB

(50 Ω 测量系统, IEC/CISPR No. 17 号出版物 Measured in 50 Ω system, as IEC/CISPR No. 17)

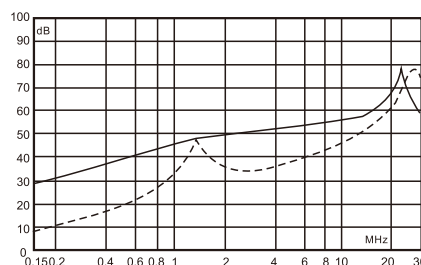
2D1



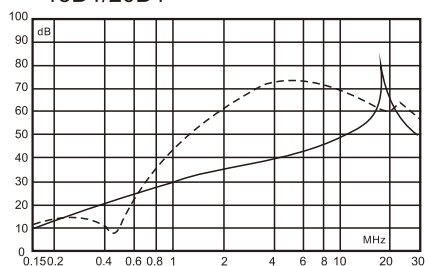
6D1



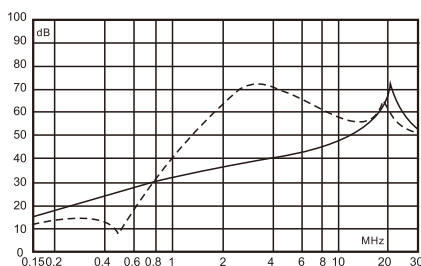
6D3/6D11



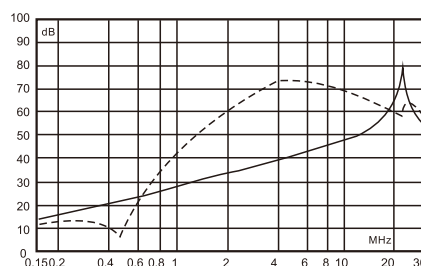
15D1/20D1



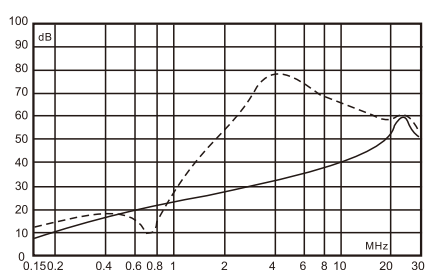
15D3/20D3



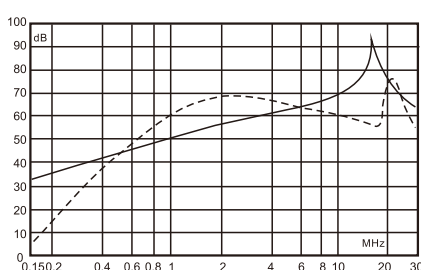
20D32



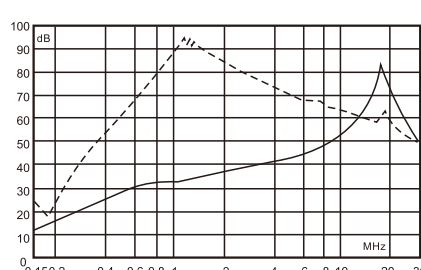
30D1



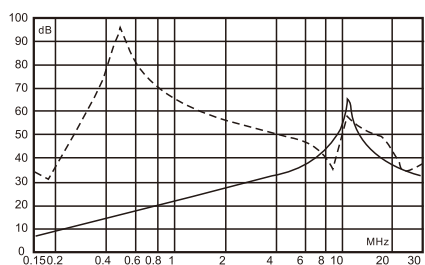
1D3



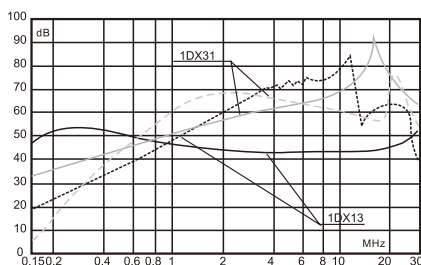
35D3/50D3/60D3



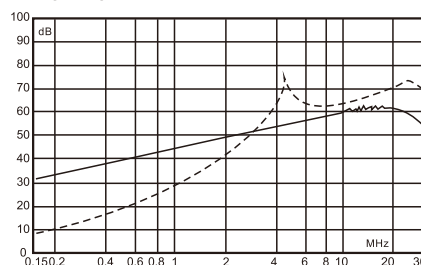
100D3/120D3/150D3/200D1



1DX13/1DX31

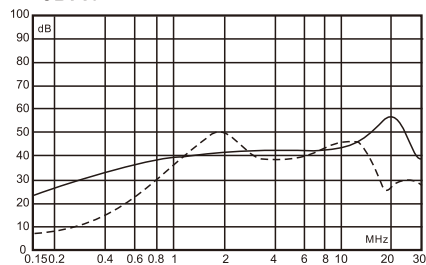


3DX31

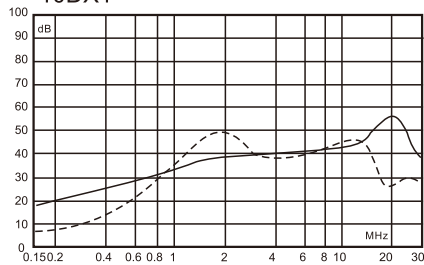




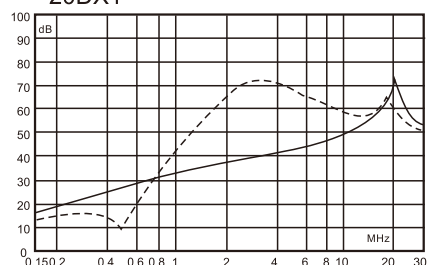
6DX1



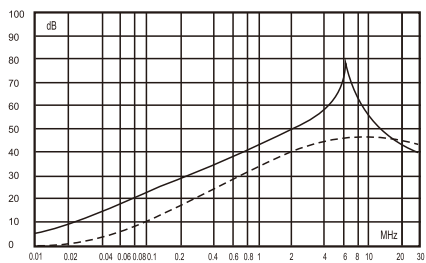
10DX1



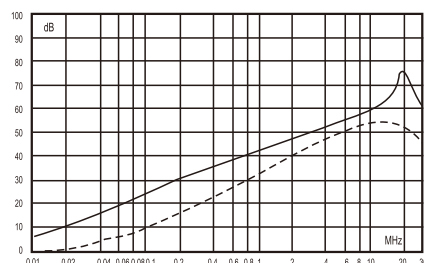
20DX1



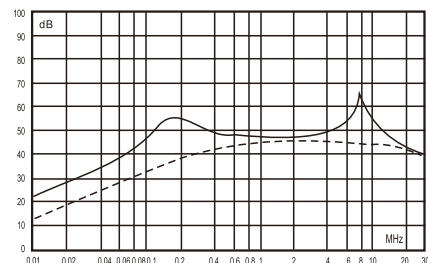
3DT



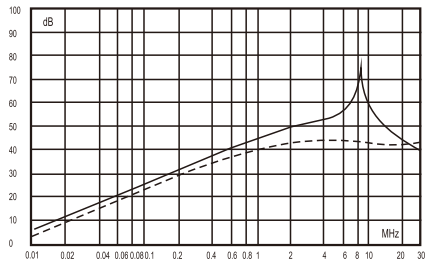
6DT



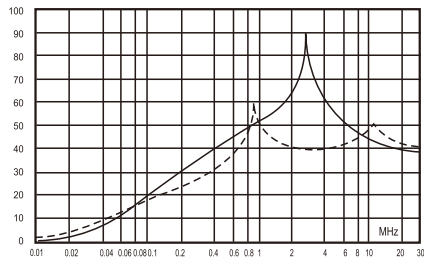
8DT



10DT



16DT



—— 共模(Common Mode)
----- 差模(Differential Mode)

特点 Features

- 含差模线圈
With differential mode choke
- 性价比高
High performance to cost make

应用 Applications

- 用于开关逆变类电源变换器
For switching power supplies & converters



技术参数 Technical Data

额定电压 Rated Voltage	250VAC
工作频率 Operating Frequency	50/60Hz
额定电流 Rated Current	1A-1000A
耐压试验:(一分钟) Test Voltage (1min)	1500VDC (line/line) 1500VAC/2250VDC (line/ground)
气候类别 Climatic Category	25/085/21

型号 Model	端子方式 Terminal		额定电流 Rated Current (A)	接地电容量 Ground Capacitance (nF)	泄漏电流 Leakage Current ≤(mA)	放电电阻 Discharge Resistance (MΩ)	电路图 Circuit Diagram fig.	外形尺寸 Dimension fig. 见附录 (77页) See appendix P77
	入 Input	出 Output						
DL-1DH1			1	4.7	0.8	0.44	1	A3
DL-3DH1			3	4.7	0.8	0.44	1	A6
DL-6DH12			6	4.7	0.8	1	2	A6
DL-10DH12			10	4.7	0.8	1	3	A5
DL-16DH1			16	4.7	0.8	1	2	C1
DL-16DH11			16	10	1.7	1	2	C2
DL-20DH1			20	4.7	0.8	1	1	D3
DL-35DH1			35	3.3	0.5	1	1	F5
DL-200DH1/10			200	44	10	0.68	4	G4
DL-300DH1/10			250	44	10	0.68	4	G4
DL-450DH1/60			450	220	20	0.68	4	J1
DL-600DH1/60			600	220	20	0.68	4	J1
DL-750DH1/60			750	220	20	0.68	4	J2
DL-1000DH1/60			1000	220	20	0.68	4	J2

电原理图 Typical Circuit Diagram

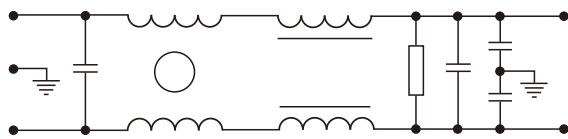


fig.1

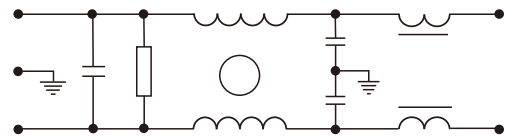


fig.2

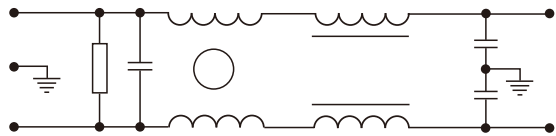


fig.3

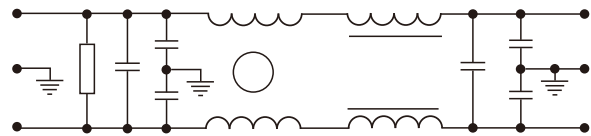
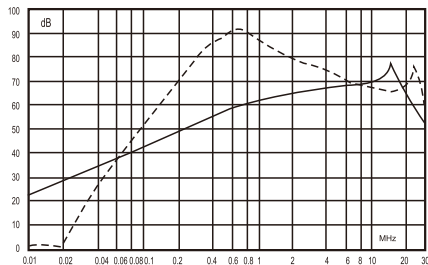


fig.4

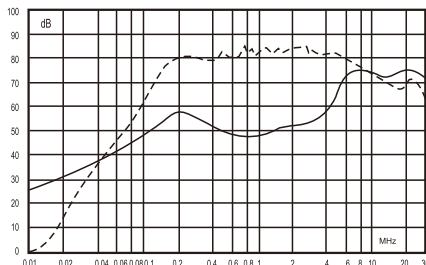
插入损耗 Insertion Loss in dB

(50 Ω 测量系统, IEC/CISPR No. 17 号出版物 Measured in 50 Ω system, as IEC/CISPR No. 17)

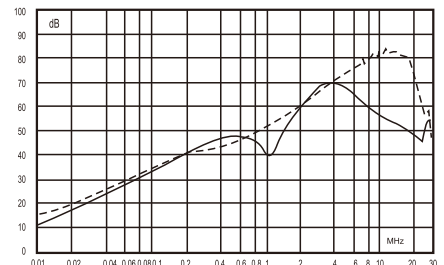
1DH1



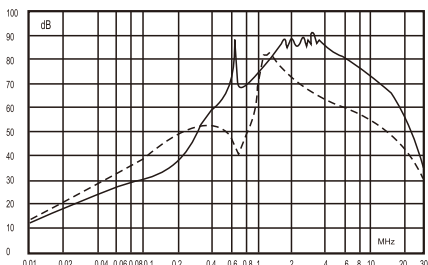
3DH1



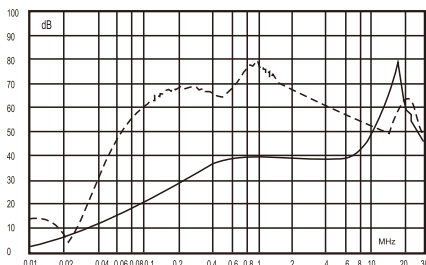
16DH1



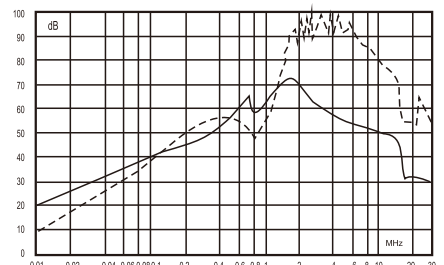
16DH11



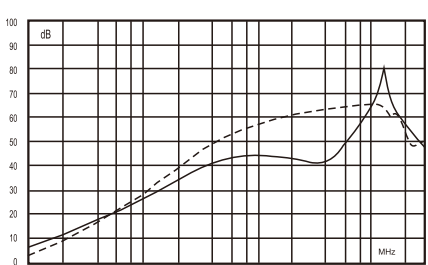
20DH1



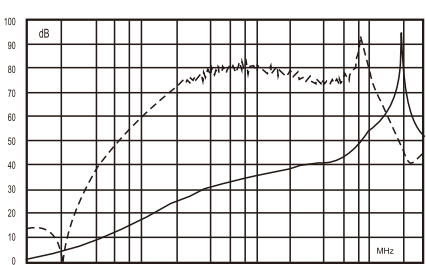
6DH12



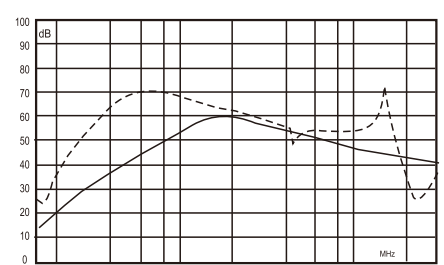
10DH12



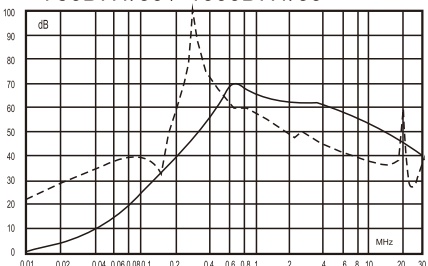
35DH1



200DH1/10、250DH1/10



450DH1/60、600DH1/60、
750DH1/60、1000DH1/60



—— 共模(Common Mode)
----- 差模(Differential Mode)

特点 Features

- 高性能电源滤波器
High performance filters
- 具有良好的共模和差模干扰抑制特性
Good performance of common mode and differential mode interference suppression



应用 Applications

- 用于大多数数字设备(尤其是开关电源)可用来抑制连续或间隙性脉冲干扰。
For digital systems(particularly for switching power supplies) to suppress the continuity or intermittent pulse interference.

技术参数 Technical Data

额定电压 Rated Voltage	120/250VAC
工作频率 Operating Frequency	50/60Hz
额定电流 Rated Current	3A-100A
耐压试验:(一分钟) Test Voltage (1min)	1500VDC (line/line) 1500VAC (line/ground)
气候类别 Climatic Category	25/085/21

型号 Model	端子方式 Terminal		额定电流 Rated Current (A)	接地电容量 Ground Capacitance (nF)	泄漏电流 Leakage Current ≤(mA)	放电电阻 Discharge Resistance (MΩ)	电路图 Circuit Diagram fig.	外形尺寸 Dimension fig. 见附录 (77页) See appendix P77
	入 Input	出 Output						
DL-3K1			3	9.4	1.5	1.5	1	A3
DL-6K1			6	9.4	1.5	1.5	1	A3
DL-10K1			10	9.4	1.5	1.5	1	A3
DL-12K1			12	9.4	1.5	1.0	2	A6
DL-15K1			15	13.3	1.5	1.5	1	G2
DL-20K3			20	9.4	1.5	1.5	1	E1
DL-30K3			30	9.4	1.5	1.5	1	E1
DL-40K3			40	9.4	1.5	1.5	1	E2
DL-50K3			50	9.4	1.5	1.5	1	E4
DL-80K11			80	40	5	0.68	2	G6
DL-100K1			100	40	5	0.68	2	G6

电原理图 Typical Circuit Diagram

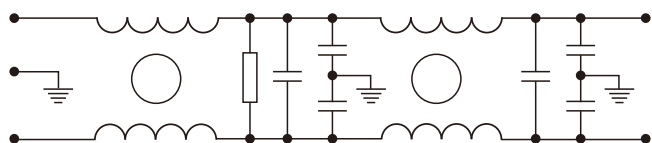


fig.1

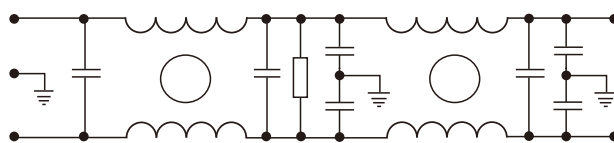
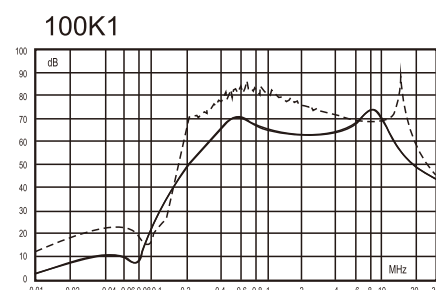
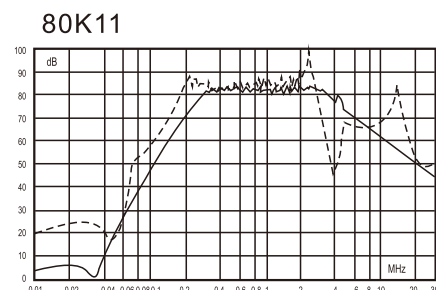
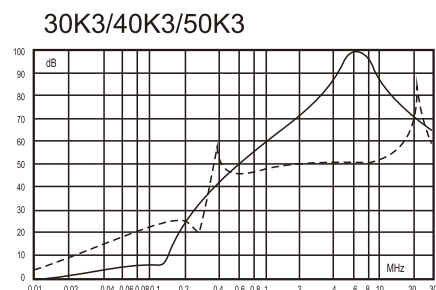
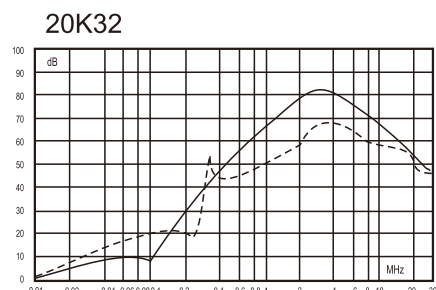
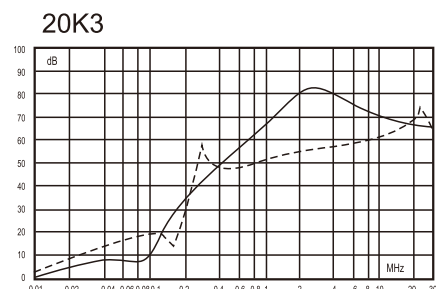
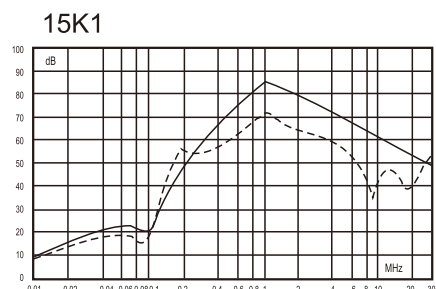
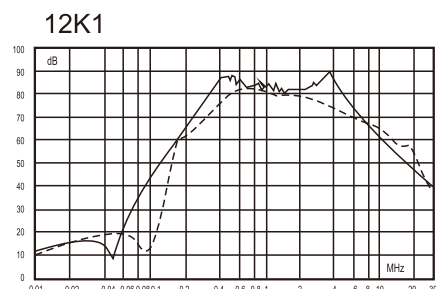
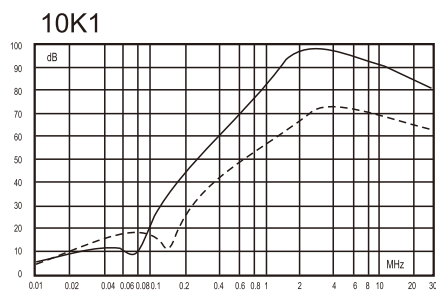
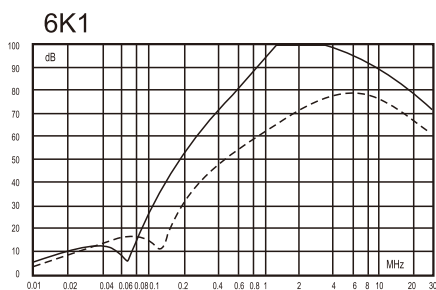
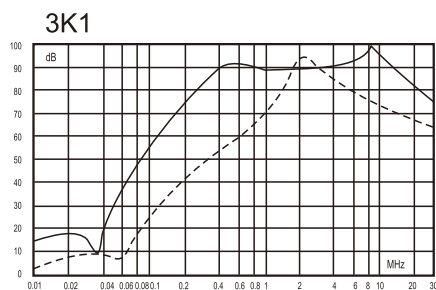


fig.2

插入损耗 Insertion Loss in dB

(50 Ω 测量系统, IEC/CISPR No. 17 号出版物 Measured in 50 Ω system, as IEC/CISPR No. 17)

12



—— 共模(Common Mode)
 - - - - 差模(Differential Mode)

特点 Features

- 高性能电源滤波器
High performance filters
- 泄漏电流小
Low leakage current



应用 Applications

- 用于大多数数字设备(尤其是开关电源), 可用来抑制连续或间隙性脉冲干扰, 尤其适用于低阻抗负载场合。
For digital systems(particularly for switching power supplies) to suppress the continuity or intermittent pulse interference, Specially for low impedance loads.

技术参数 Technical Data

额定电压 Rated Voltage	120/250VAC
工作频率 Operating Frequency	50/60Hz
额定电流 Rated Current	2A-80A
耐压试验:(一分钟) Test Voltage (1min)	1500VDC (line/line) 1500VAC (line/ground)
气候类别 Climatic Category	25/085/21

型 号 Model	端子方式 Terminal		额定电流 Rated Current (A)	接地电容量 Ground Capacitance (nF)	泄漏电流 Leakage Current ≤(mA)	放电电阻 Discharge Resistance (MΩ)	电路图 Circuit Diagram fig.	外形尺寸 Dimension fig. 见附录(77页) See appendix P77
	入 Input	出 Output						
DL-2T1			2	2.2	0.5	1	1	A3
DL-3T1			3	3.3	0.5	1.5	1	A3
DL-3T3			3	3.3	0.5		3	B1
DL-6T1			6	3.3	0.5	1.5	2	A3
DL-6T112			6	2.2	0.5	0.47	1	A4
DL-10T1			10	3.3	0.5	1.5	2	A3
DL-10T11			10	3.3	0.5	1	2	A4
DL-12T1			12	4.7	0.8	1	2	A6
DL-15T1			15	3.3	0.5	1.5	2	D1
DL-16T12			16	3.3	0.5	0.68	2	D4
DL-20T1			20	4.7	0.8	1.5	2	D2
DL-25T11			25	3.3	0.5	0.68	2	F4
DL-30T11			30	3.3	0.5	0.68	2	F3
DL-50T3			50	6.8	1.0	1.5	2	E4
DL-80T1			80	4.7	0.8	0.68	2	G6

电原理图 Typical Circuit Diagram

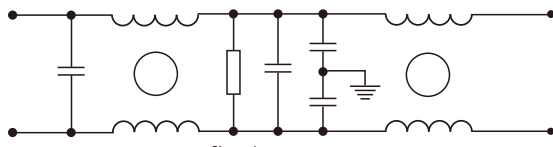


fig.1

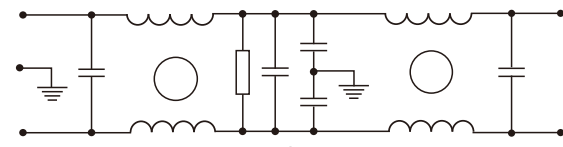


fig.2

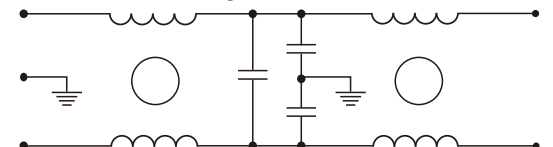


fig.3

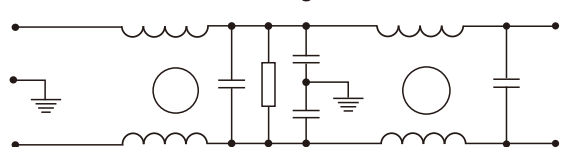
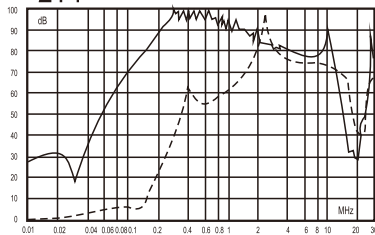


fig.4

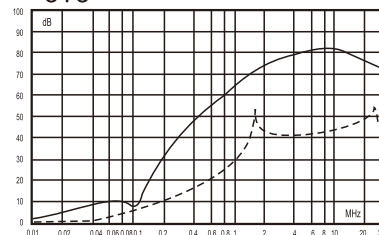
插入损耗 Insertion Loss in dB

(50 Ω 测量系统, IEC/CISPR No.17 号出版物 Measured in 50 Ω system, as IEC/CISPR No. 17)

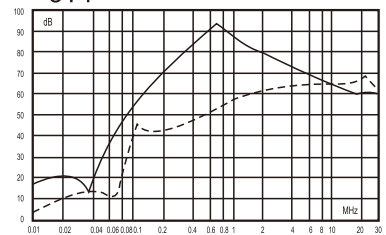
2T1



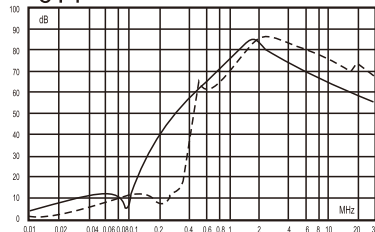
3T3



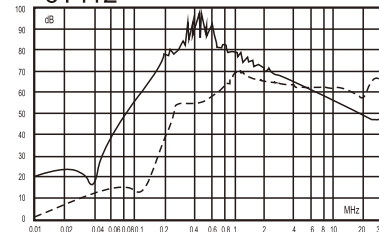
3T1



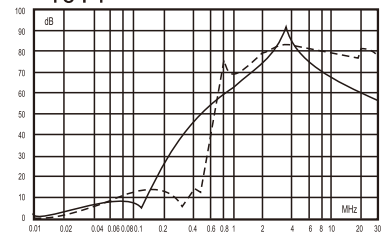
6T1



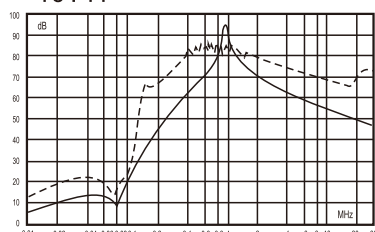
6T112



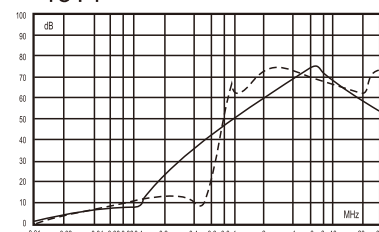
10T1



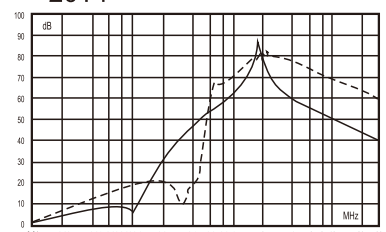
10T11



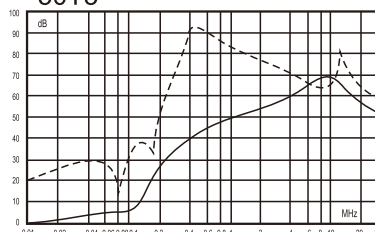
15T1



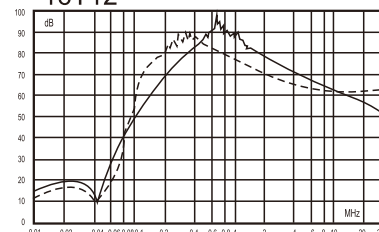
20T1



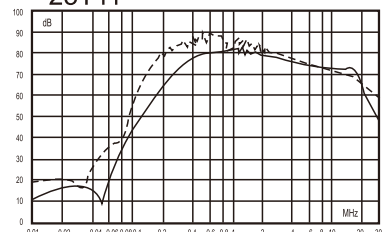
50T3



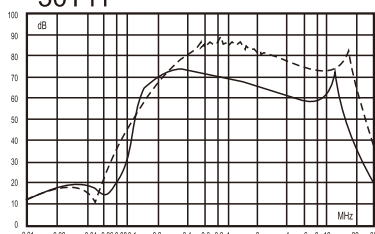
16T12



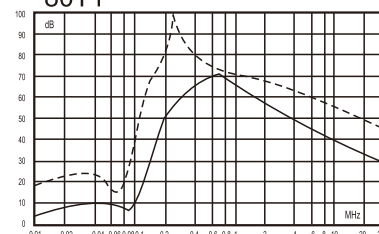
25T11



30T11



80T1



—— 共模(Common Mode)
 - - - - 差模(Differential Mode)

特点 Features

- 含差模线圈的高性能电源滤波器
High performance filters with differential mode choke
- 泄露电流小
Low leakage current



应用 Applications

- 用于大多数数字设备(尤其是开关电源), 可用来抑制连续或间隙性脉冲干扰, 尤其适用于低阻抗负载场合。
For digital systems(particularly for switching power supplies) to suppress the continuity or intermittent pulse interference, Specially for low impedance loads.

技术参数 Technical Data

额定电压 Rated Voltage	120/250VAC
工作频率 Operating Frequency	50/60Hz
额定电流 Rated Current	1A-100A
耐压试验:(一分钟) Test Voltage (1min)	1500VDC (line/line) 1500VAC (line/ground)
气候类别 Climatic Category	25/085/21

型号 Model	端子方式 Terminal		额定电流 Rated Current (A)	接地电容量 Ground Capacitance (nF)	泄漏电流 Leakage Current ≤(mA)	放电电阻 Discharge Resistance (MΩ)	电路图 Circuit Diagram fig.	外形尺寸 Dimension fig. 见附录 (77页) See appendix P77
	入 Input	出 Output						
DL-1TH1			1	3.3	0.5	1	1	A3
DL-6TH1			6	3.3	0.5	1	1	A6
DL-10TH3			10	3.3	0.5	1	1	E1
DL-15TH1			15	3.3	0.5	1	2	G3
DL-20TH1			20	3.3	0.5	1	2	G3
DL-30TH1			30	3.3	0.5	1	2	G3
DL-40TH1			40	5.0	0.8	0.68	2	G5
DL-100TH1			100	6.8	1.0	1	2	G6



电原理图 Typical Circuit Diagram

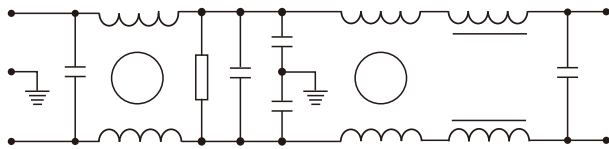


fig.1

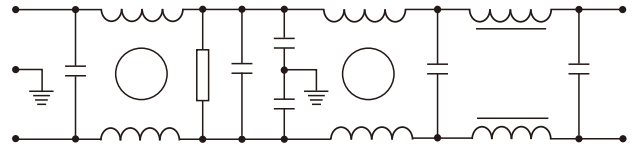
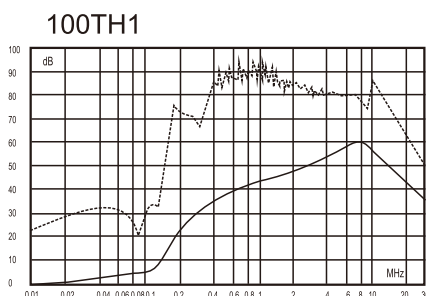
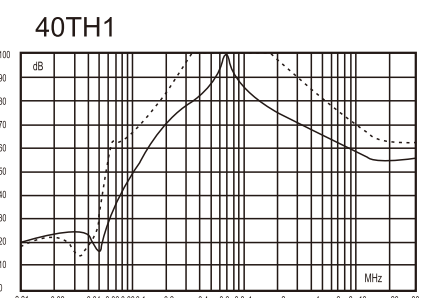
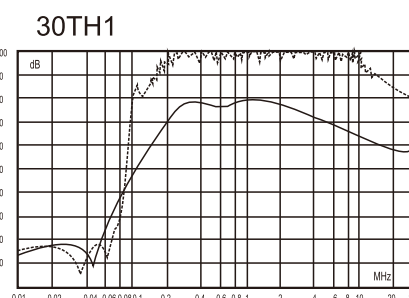
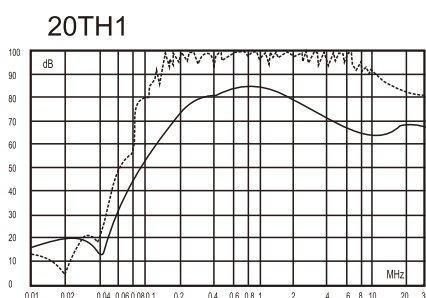
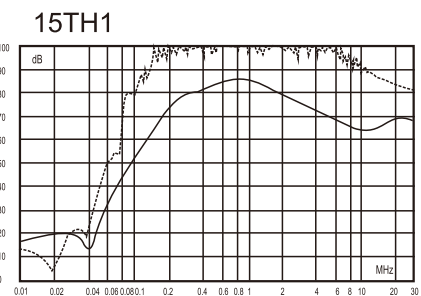
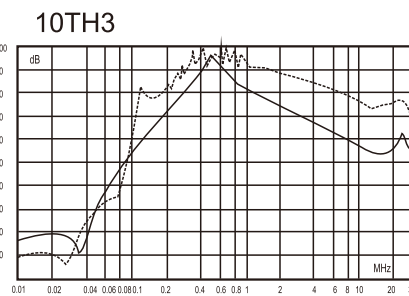
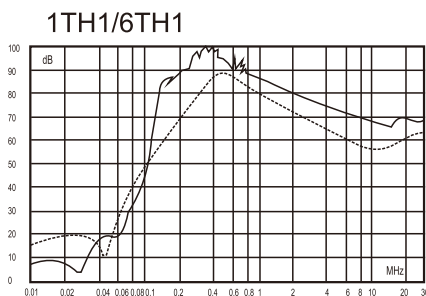


fig.2

插入损耗 Insertion Loss in dB

(50 Ω 测量系统, IEC/CISPR No. 17 号出版物 Measured in 50 Ω system, as IEC/CISPR No.17)



—— 共模(Common Mode)
----- 差模(Differential Mode)

特点 Features

- 常规通用
General purpose
- 安装方便
Easy to install



应用 Applications

- 用于各种电子设备和电子测量仪器的直流侧
For electronic equipment and measuring instruments(DC side)

技术参数 Technical Data

额定电压 Rated Voltage	80 VDC
额定电流 Rated Current	1A-260A
耐压试验(一分钟) Test Voltage(1 min)	350 VDC (line/line) 1414 VDC (line/ground)
气候类别 Climatic Category	25/085/21

型号 Model	端子方式 Terminal		额定电流 Rated Current (A)	接地电容量 Ground Capacitance (nF)	泄漏电流 Leakage Current ≤(mA)	放电电阻 Discharge Resistance (MΩ)	电路图 Circuit Diagram fig.	外形尺寸 Dimension fig. 见附录(77页) See appendix P77
	入 Input	出 Output						
DL-1F3			1	22	-		1	B1
DL-3F3			3	22	-		1	B2
DL-6F1			6	22	-		1	A2
DL-10F1			10	22	-		1	A2
DL-15F1			15	22	-		1	A2
DL-20F1			20	22	-		1	A2
DL-25F1			25	22	-		1	D2
DL-30F1			30	22	-		1	D2
DL-35F1			35	22	-		1	D2
DL-40F1			40	22	-		1	D2
DL-40F3			40	22	-		1	E2
DL-50F3			50	22	-		1	E2

型 号 Model	端子方式 Terminal		额定电流 Rated Current (A)	接地电容量 Ground Capacitance (nF)	泄漏电流 Leakage Current ≤(mA)	放电电阻 Discharge Resistance (MΩ)	电路图 Circuit Diagram fig.	外形尺寸 Dimension fig. 见附录 (36页) See appendix P36
	入 Input	出 Output						
DL-60F31			60	22	-		1	E2
DL-80F3			80	44	-		2	E5
DL-80F33			80	44	-		2	E3
DL-100F3			100	44	-		2	E5
DL-120F3			120	44	-		2	E5
DL-140F3			140	44	-		2	E5
DL-160F3			160	1 μ	-		2	E5
DL-180F1			180	44	-		2	G7
DL-200F1			200	44	-		2	G4
DL-260F1			260	44	-		2	G4
DL-1FX3			1	4.7	-		1	BX2
DL-3FX1			3	22	-		1	AX1
DL-20FX3			20	1 μ	-		1	BX3
DL-40FX3			40	22	-		1	EX1

电原理图 Typical Circuit Diagram

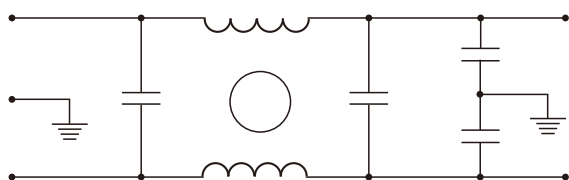


fig.1

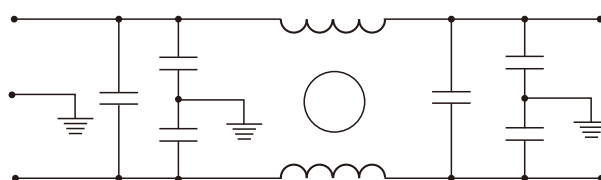
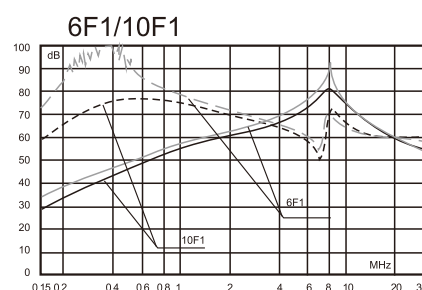
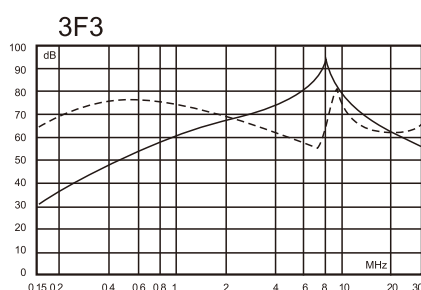
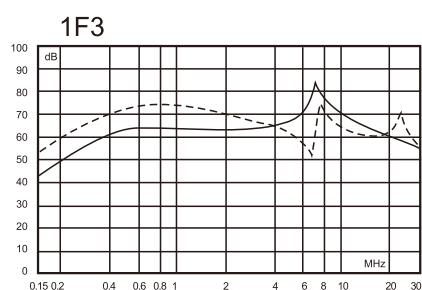


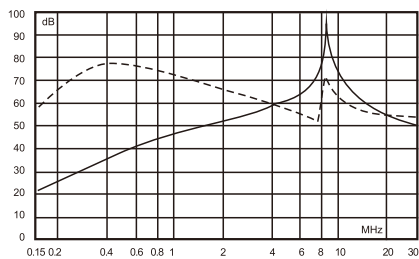
fig.2

插入损耗 Insertion Loss in dB

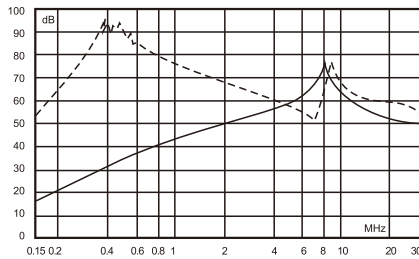
(50 Ω 测量系统, IEC/CISPR No.17 号出版物 Measured in 50 Ω system, as IEC/CISPR No. 17)



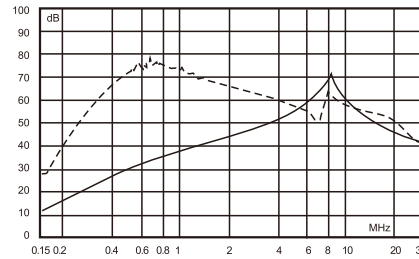
15F1



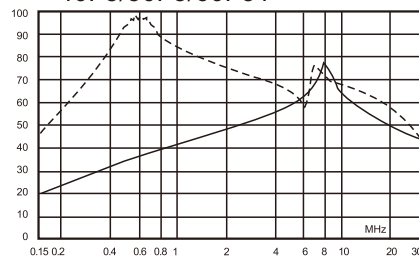
20F1



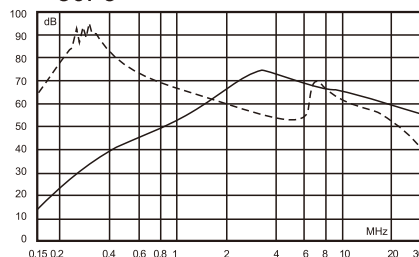
25F1/30F1/35F1/40F1



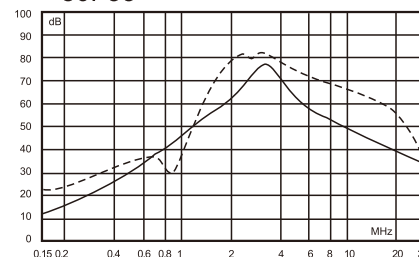
40F3/50F3/60F31



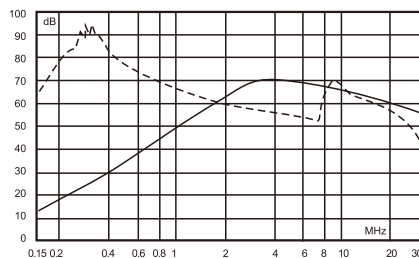
80F3



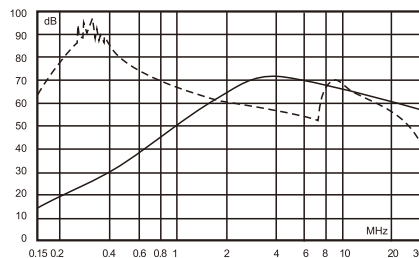
80F33



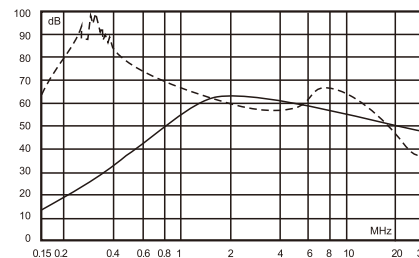
100F3/120F3



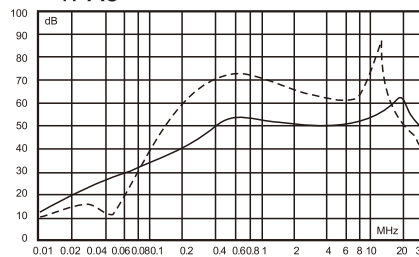
140F3



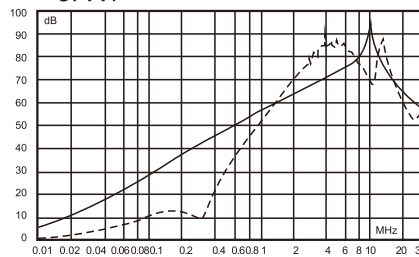
180F1/200F1/260F1



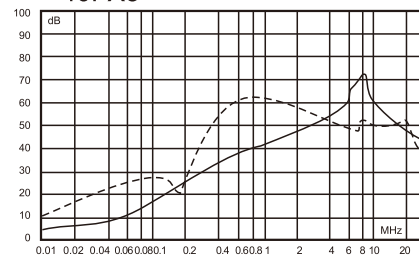
1FX3



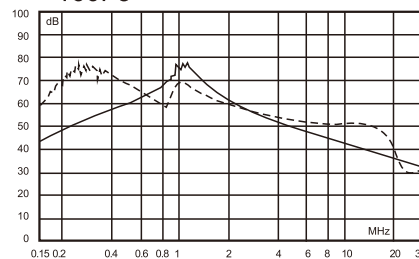
3FX1



40FX3



160F3



—— 共模(Common Mode)
----- 差模(Differential Mode)



F6-PV F6W-PV 系列

F6-PV F6W-PV Series

特点 Features

- 光伏逆变器用直流EMI电源滤波器（150A至1600A）
DC EMI Filters for PV inverters（150A to 1600A）
- 高压设计满足于1200VDC电网
HV versions designed for 1200VDC IT power networks

应用 Applications

- 适用于光伏逆变器
Suited for PV inverters

技术参数 Technical Data

额定电压 Rated Voltage	Max. 1200VDC
工作频率 Operating Frequency	DC
耐电压 Test Voltage	线至地line to ground: 3600VDC 线至线line to line: 3000VDC
气候类别 Climatic Category	40/085/21



型 号 Model	额定电流 Current Ratings at 40℃	电路图 Circuit Diagram	外形图 Case Dimensions
DL-25F6-PV	25A	fig.1	fig.1
DL-50F6-PV	50A	fig.1	fig.2
DL-75F6-PV	75A	fig.1	fig.2-1
DL-100F6-PV	100A	fig.1	fig.3
DL-150F6-PV	150A	fig.1	fig.4
DL-250F6-PV	250A	fig.1	fig.5
DL-400F6-PV	400A	fig.1	fig.6
DL-600F6-PV	600A	fig.1	fig.7
DL-800F6-PV	800A	fig.1	fig.8
DL-1000F6-PV	1000A	fig.1	fig.9
DL-1500F6-PV	1500A	fig.1	fig.10
DL-25F6W-PV	25A	fig.2	fig.1
DL-50F6W-PV	50A	fig.2	fig.2
DL-75F6W-PV	75A	fig.2	fig.2-1
DL-100F6W-PV	100A	fig.2	fig.3
DL-150F6W-PV	150A	fig.2	fig.4
DL-250F6W-PV	250A	fig.2	fig.5
DL-400F6W-PV	400A	fig.2	fig.6
DL-600F6W-PV	600A	fig.2	fig.7
DL-800F6W-PV	800A	fig.2	fig.8
DL-1000F6W-PV	1000A	fig.2	fig.9
DL-1500F6W-PV	1500A	fig.2	fig.10

电原理图 Typical Circuit Diagram

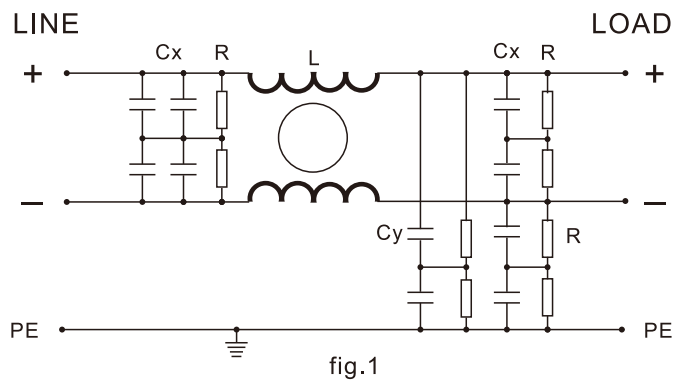


fig.1

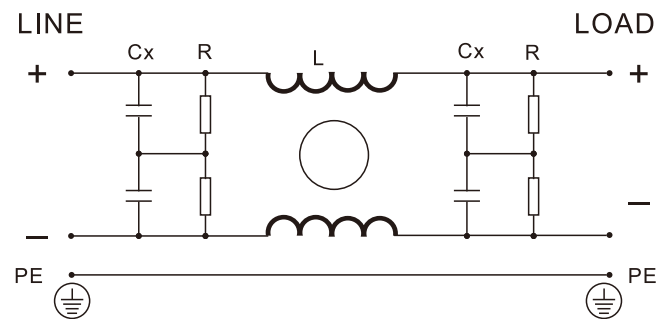


fig.2

外形尺寸 Outline Drawing and Dimensions (mm)

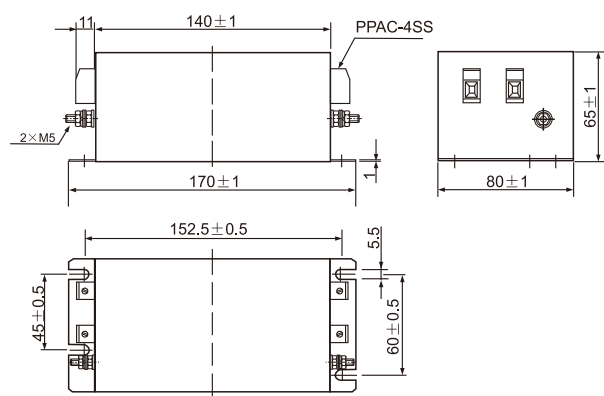


fig.1

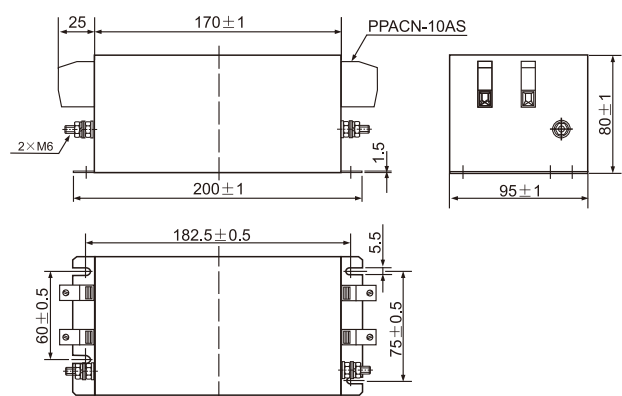


fig.2

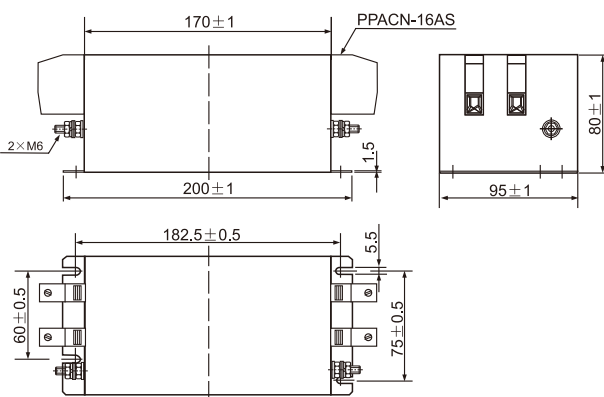


fig.2-1

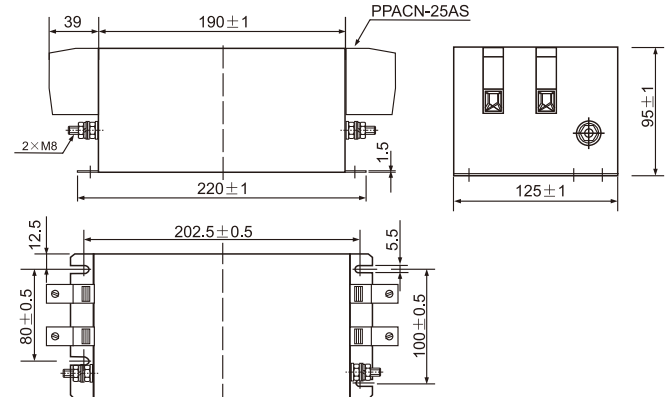


fig.3

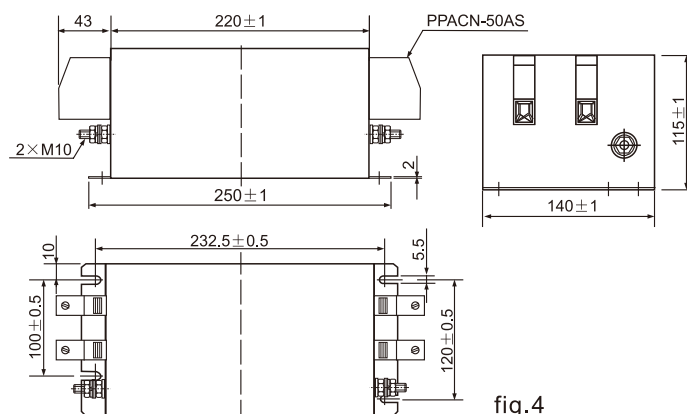


fig.4

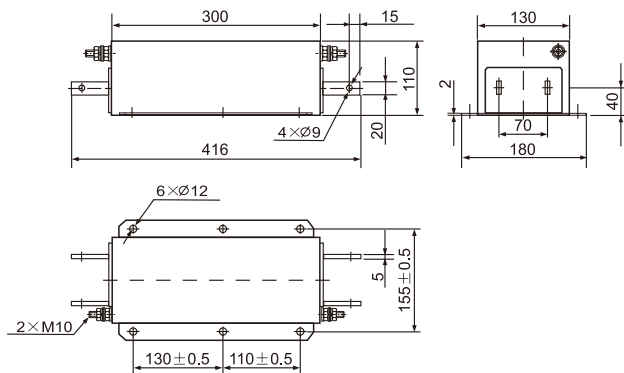


fig.5

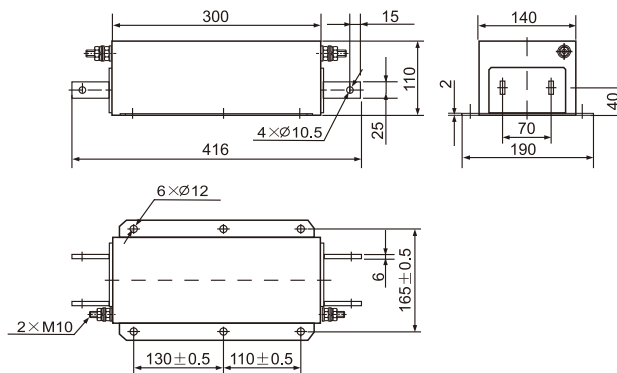


fig.6

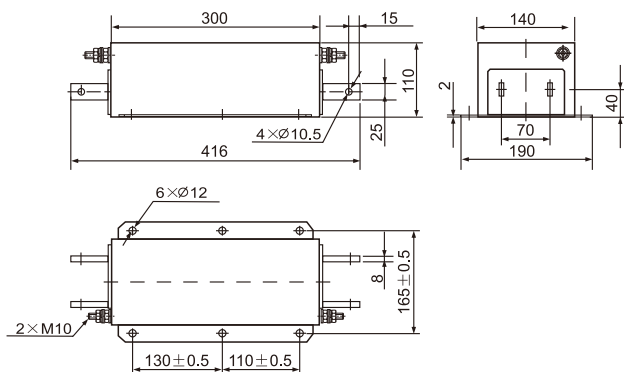


fig.7

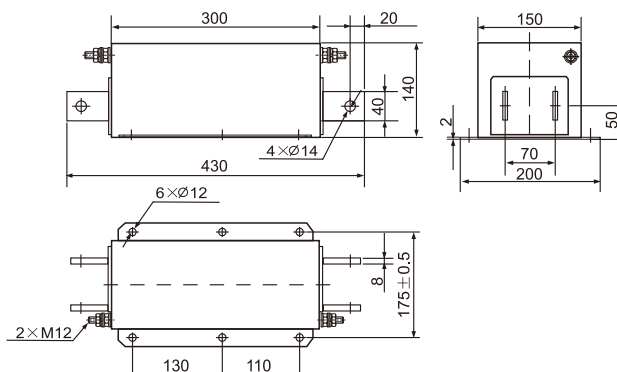


fig.8

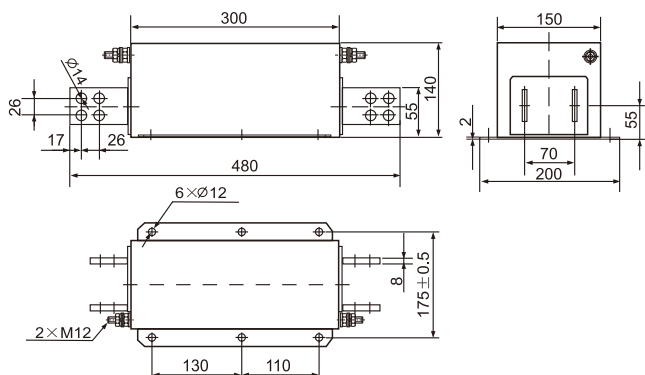


fig.9

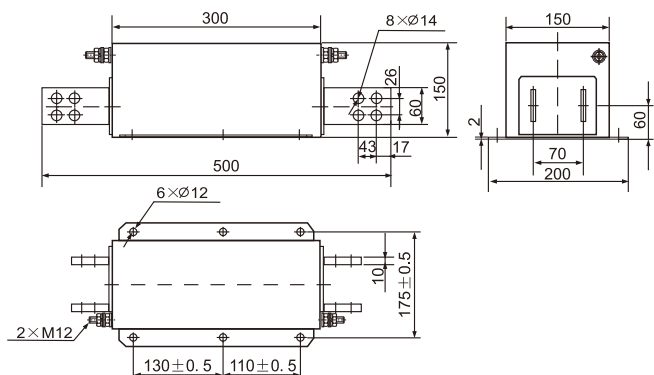
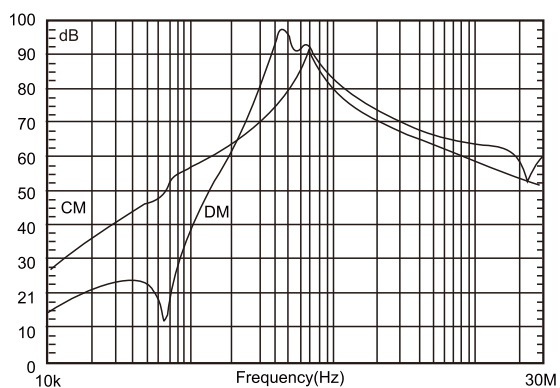


fig.10

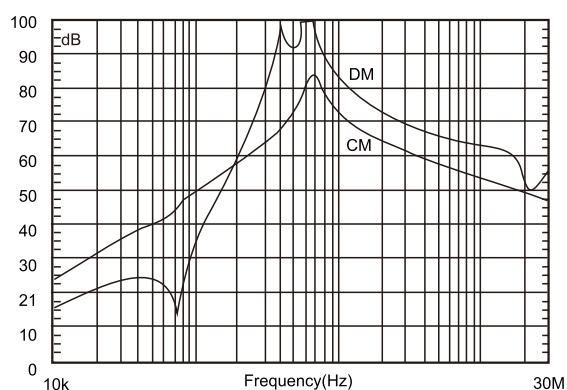
插入损耗 Insertion Loss in dB

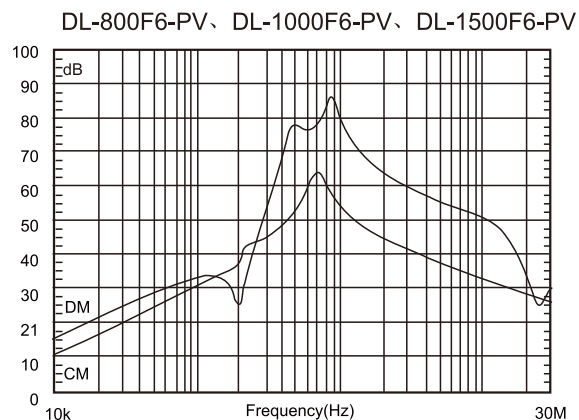
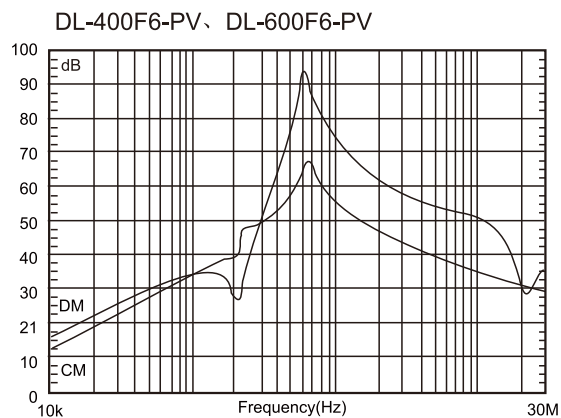
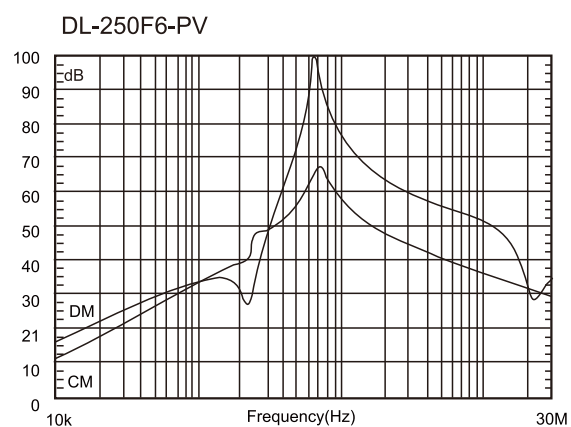
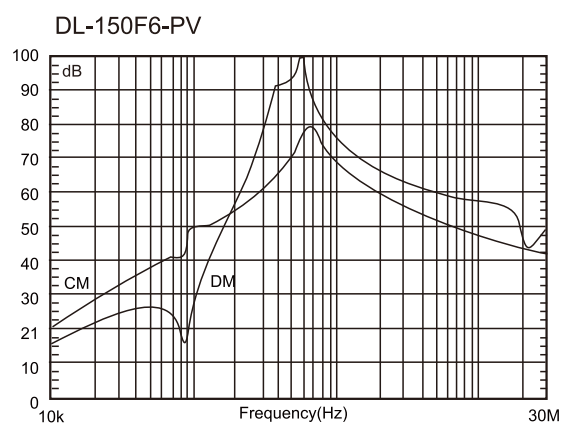
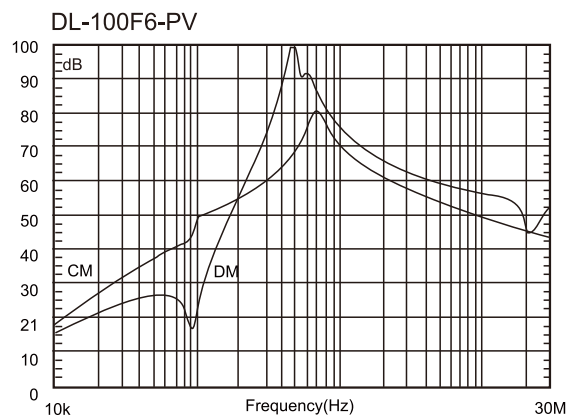
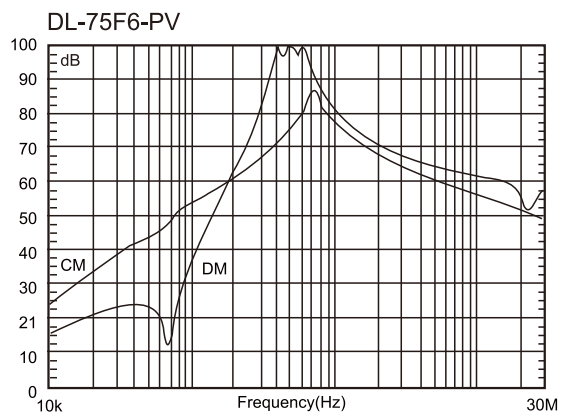
(Measured in 50 Ω system):

DL-25F6-PV



DL-50F6-PV





FK 系列

FK Series

特点 Features

- 高性能电源滤波器
High performance filters.
- 具有良好的共模和差模干扰抑制特性
Good performance of common mode and differential mode interference suppression.



应用 Applications

- 程控交换机直流电源输入端，开关电源直流电源输入端以及使用直流电源的各类敏感电子设备。
Input of DC power of program-controlled, DC input of switch power supplies and various sensitive electronic instruments.

技术参数 Technical Data

额定电压 Rated Voltage	80 VDC
额定电流 Rated Current	10A-60A
耐压试验(一分钟) Test Voltage(1 min)	350 VDC (line/line) 1414 VDC (line/ground)
气候类别 Climatic Category	25/085/21

型 号 Model	端子方式 Terminal		额定电流 Rated Current (A)	接地电容量 Ground Capacitance (nF)	泄漏电流 Leakage Current ≤(mA)	放电电阻 Discharge Resistance (MΩ)	电路图 Circuit Diagram fig.	外形尺寸 Dimension fig. 见附录 (77页) See appendix P77
	入 Input	出 Output						
DL-10FK1			10	44	-		1	D1
DL-20FK1			20	44	-		1	D2
DL-30FK1			30	44	-		1	F1
DL-50FK1			50	440	-		1	F2
DL-50FK11			50	440	-		1	G1
DL-60FK1			60	440	-		1	F2

电原理图 Typical Circuit Diagram

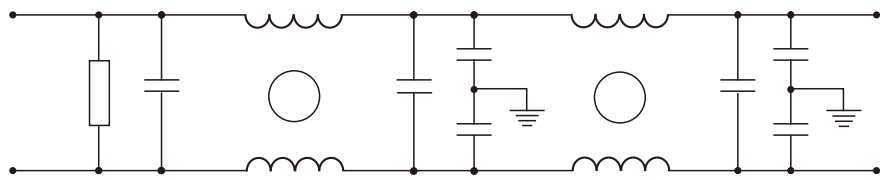
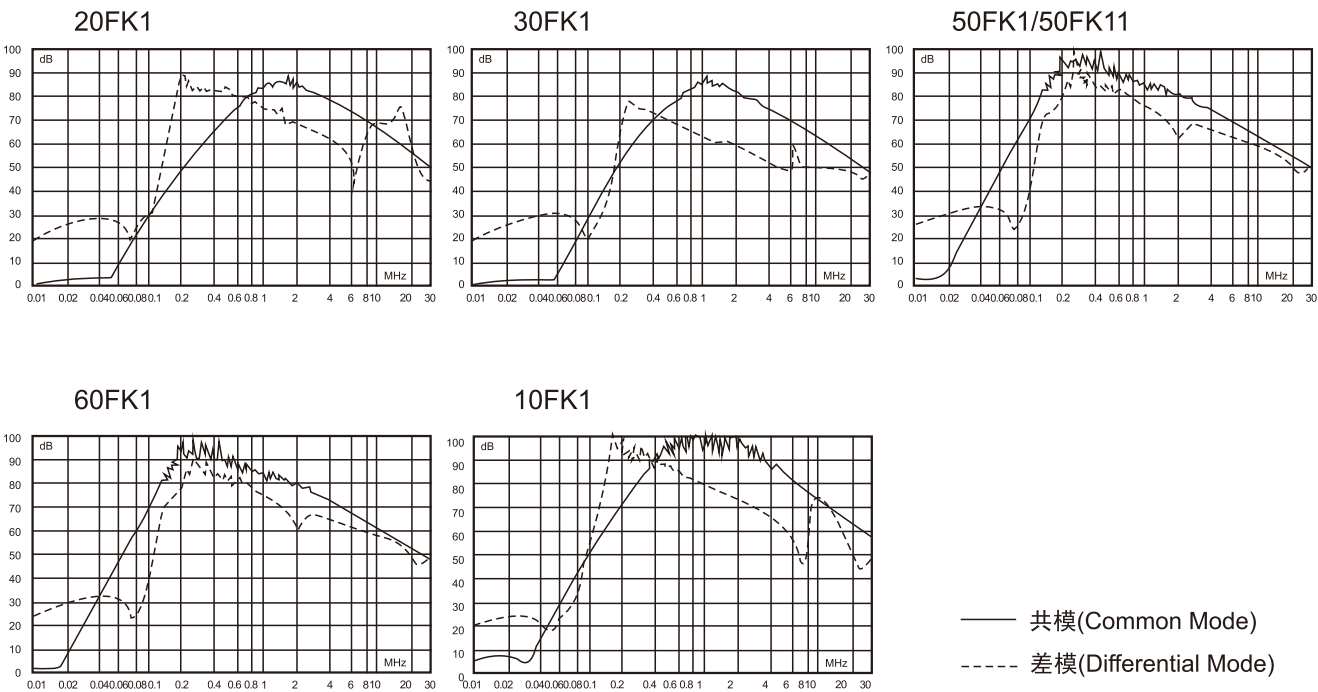


fig.1

插入损耗 Insertion Loss in dB

(50 Ω 测量系统, IEC/CISPR No. 17 号出版物 Measured in 50 Ω system, as IEC/CISPR No. 17)



DZ 系列

DZ Series

特点 Features

- IEC标准插座式一体化滤波器
IEC connector integrative filters
- 性价比高
High performance to cost make

应用 Applications

- 用于小型电子设备和电子测量仪器
Available for mini-electronic equipments and measuring instruments

技术参数 Technical Data

额定电压 Rated Voltage	250VAC
工作频率 Operating Frequency	50/60Hz
额定电流 Rated Current	1A-16A
耐压试验:(一分钟) Test Voltage (1min)	1500VDC (line/line) 1500VAC (line/ground)
气候类别 Climatic Category	25/085/21



型号 Model	端子方式 Terminal		额定电流 Rated Current (A)	接地电容量 Ground Capacitance (nF)	泄漏电流 Leakage Current ≤(mA)	放电电阻 Discharge Resistance (MΩ)	电路图 Circuit Diagram fig.	外形尺寸 Dimension fig.
	入 Input	出 Output						
DL-1DZ2			1	2.2	0.5		1	1
DL-3DZ2			3	3.3	0.5		1	1
DL-6DZ2			6	3.3	0.5		1	1
DL-10DZ2			10	4.7	0.8		1	1
DL-15DZ2			15	2.2	0.5	1	1	1
DL-1DZ210			1	2.2	0.5		1	2
DL-3DZ210			3	2.2	0.5		1	2
DL-6DZ210			6	2.2	0.5		1	2
DL-10DZ210			10	2.2	0.5		1	2
DL-1DZX			1	2.2	0.5		1	3
DL-3DZX			3	3.3	0.5		1	3
DL-6DZX			6	3.3	0.5		1	3
DL-10DZX			10	3.3	0.5		1	3
DL-15DZX			15	2.2	0.5	1	1	3
DL-1DZ2C			1	2.2	0.5		1	4
DL-3DZ2C			3	2.2	0.5		1	4
DL-6DZ2C			6	2.2	0.5		1	4
DL-10DZ2C			10	2.2	0.5		1	4
DL-3DZB21			3	4.7	0.8	1.5	2	5
DL-6DZB21			6	4.7	0.8	1.5	2	5
DL-10DZB21			10	3.3	0.5	1.5	2	6
DL-15DZB2			15	3.3	0.5	1.5	2	7
DL-16DZB2			16	10	1.7	0.68	1	8



电原理图 Typical Circuit Diagram

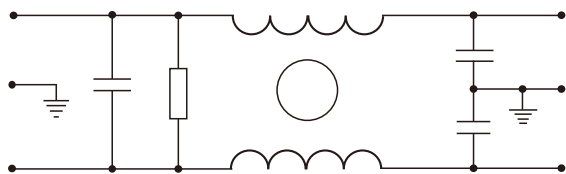


fig.1

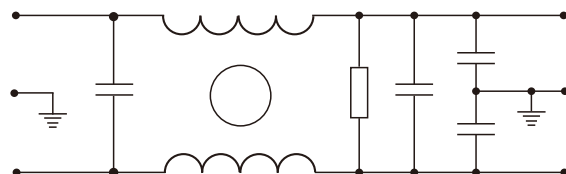


fig.2

外形尺寸 Outline Drawing and Dimensions (mm)

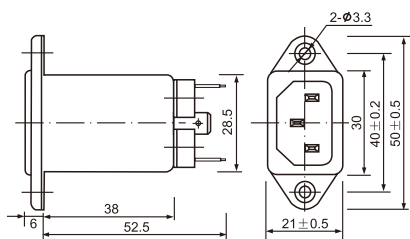


fig.1

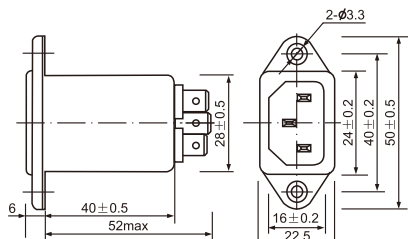


fig.2

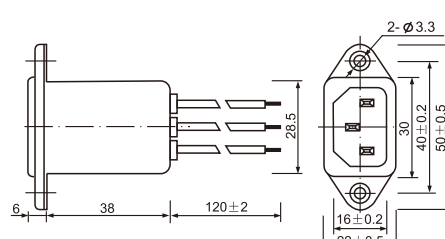


fig.3

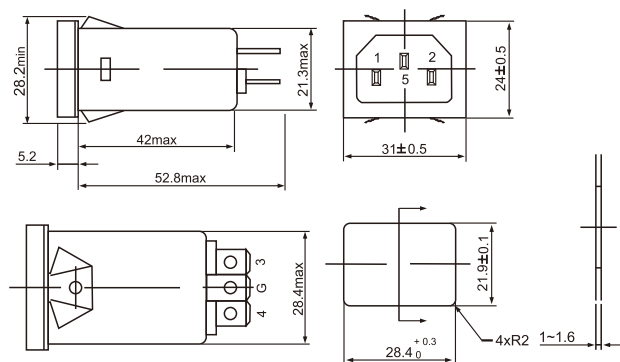


fig.4

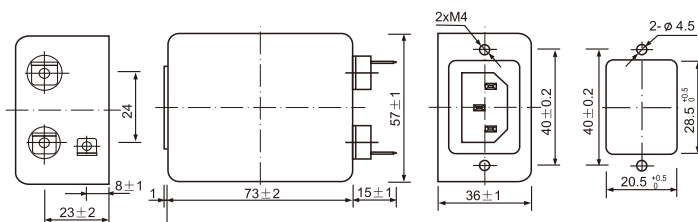


fig.5

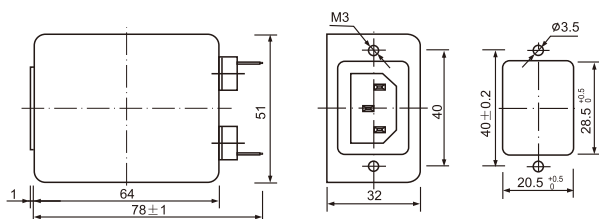


fig.6

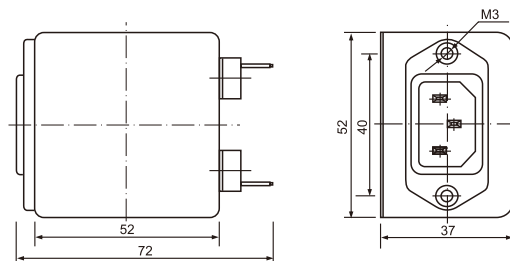


fig.7

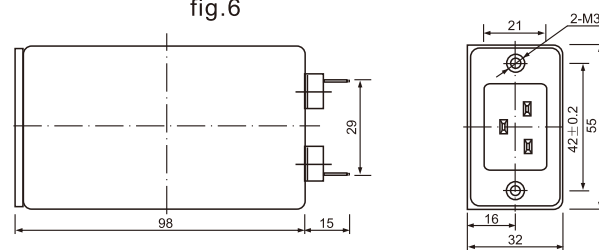
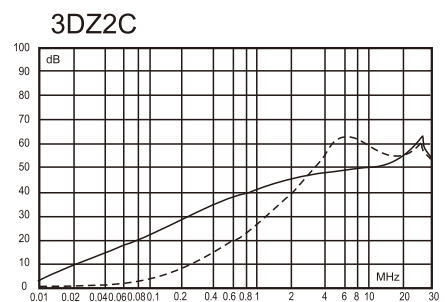
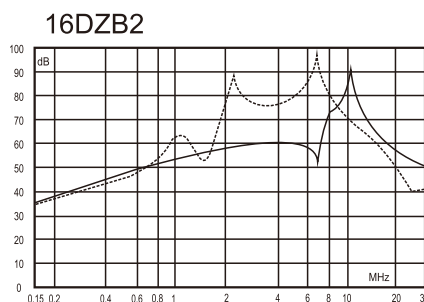
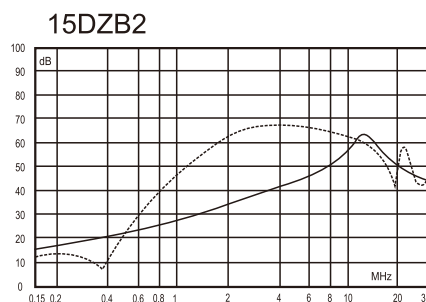
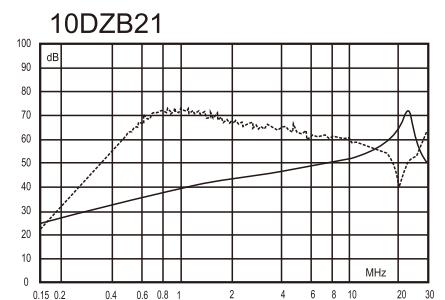
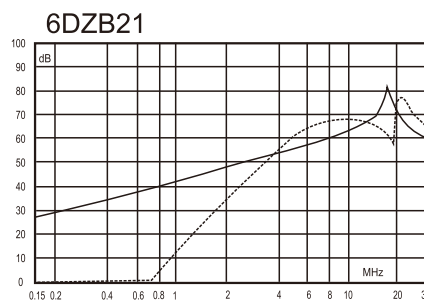
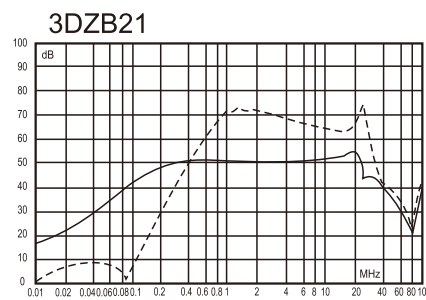
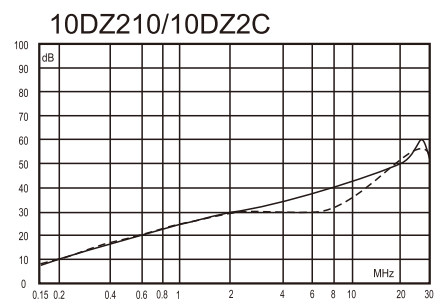
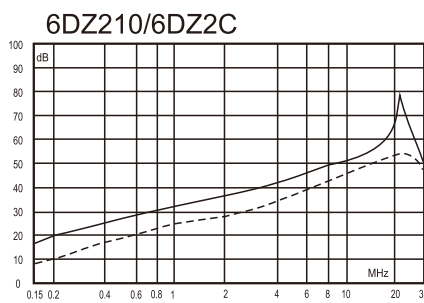
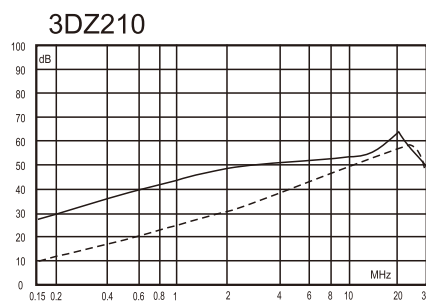
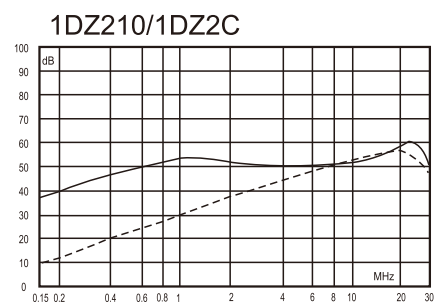
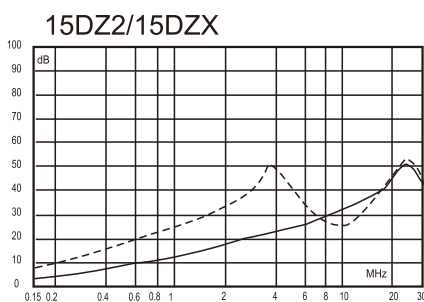
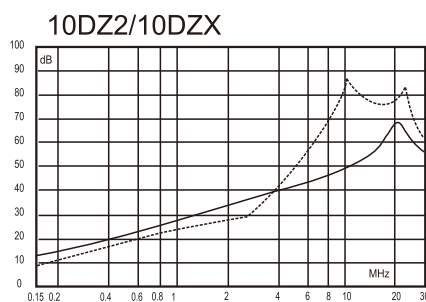
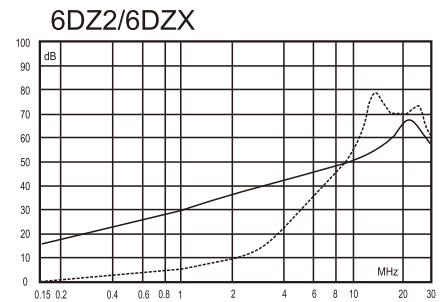
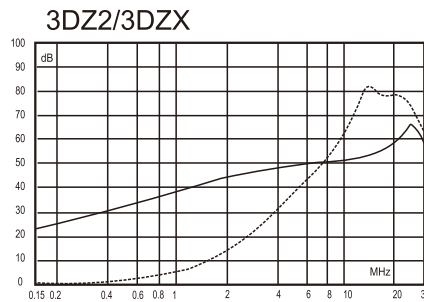
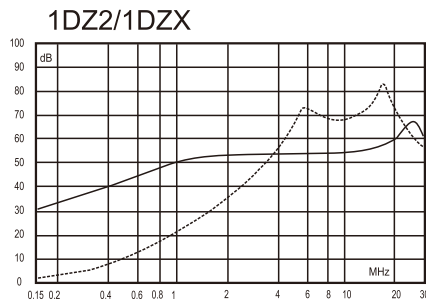


fig.8

插入损耗 Insertion Loss in dB

(50 Ω 测量系统, IEC/CISPR No.17 号出版物 Measured in 50 Ω system, as IEC/CISPR No. 17)



—— 共模(Common Mode)
 - - - - 差模(Differential Mode)

DZ2R、DZ2KR系列

DZ2R、DZ2KR Series

特点 Features

- IEC标准插座带开关或保险丝滤波器；
型号中R:带单保险丝或双保险丝；K:带开关。
IEC connector filter with fuse or switch.
R:for one or two fuses K:with switch.
- 体积小
Space-saving



应用 Applications

- 用于小型电子设备和电子测量仪器
For mini-electronic equipments and electronic measuring instruments

技术参数 Technical Data

额定电压 Rated Voltage	250VAC
工作频率 Operating Frequency	50/60Hz
额定电流 Rated Current	1A-10A
耐压试验:(一分钟) Test Voltage (1min)	1500VDC (line/line) 1500VAC (line/ground)
气候类别 Climatic Category	25/085/21

型号 Model	端子方式 Terminal		额定电流 Rated Current (A)	接地电容量 Ground Capacitance (nF)	泄漏电流 Leakage Current ≤(mA)	放电电阻 Discharge Resistance (MΩ)	电路图 Circuit Diagram fig.	外形尺寸 Dimension fig.
	入 Input	出 Output						
DL-1DZ2R			1	2.2	0.5	1	1	1
DL-3DZ2R			3	2.2	0.5	1	1	1
DL-6DZ2R			6	2.2	0.5	1	1	1
DL-10DZ2R			10	2.2	0.5	1	1	1
DL-1DZ2KR			1	2.2	0.5	1	2	2
DL-3DZ2KR			3	2.2	0.5	1	2	2
DL-6DZ2KR			6	2.2	0.5	1	2	2
DL-10DZ2KR			10	2.2	0.5	1	2	2
DL-1DZ2KR2			1	2.2	0.5	1	3	3
DL-3DZ2KR2			3	2.2	0.5	1	3	3
DL-6DZ2KR2			6	2.2	0.5	1	3	3
DL-10DZ2KR2			10	3.3	0.5	1	3	3

电原理图 Typical Circuit Diagram

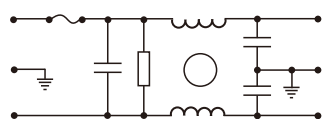


fig.1

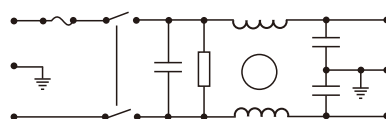


fig.2 (for one fuses)

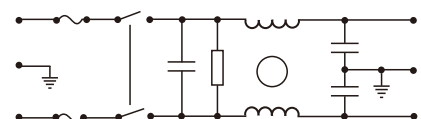
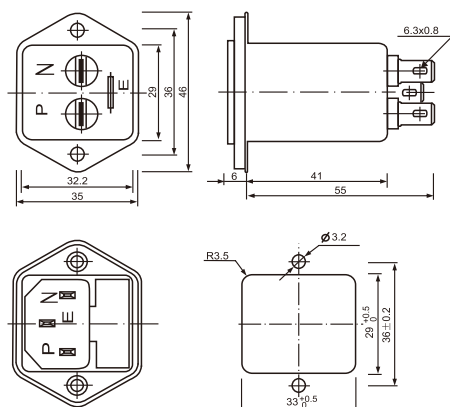


fig.3 (for two fuses)

外形尺寸 Outline Drawing and Dimensions (mm)



Panel Cut Out
fig.1

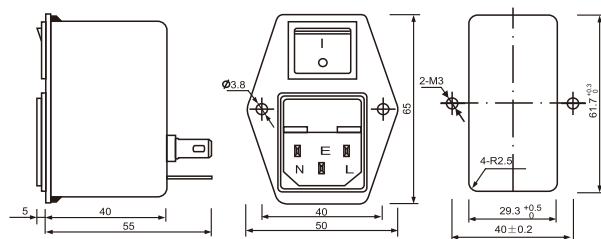


fig.2 Panel Cut Out

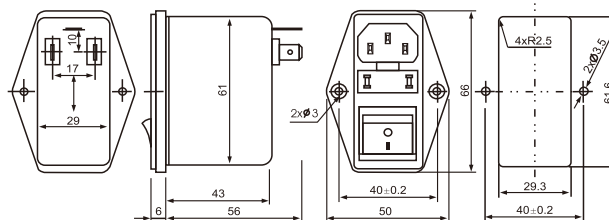
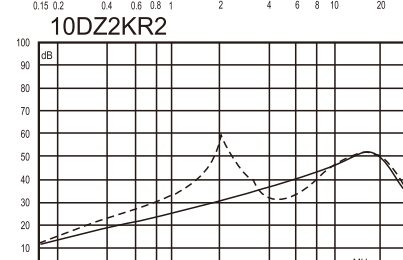
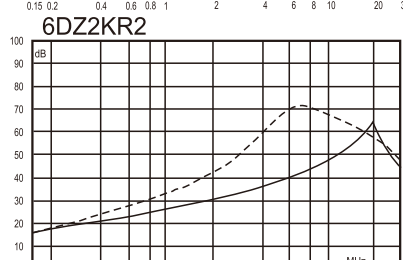
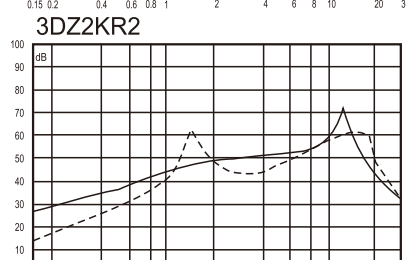
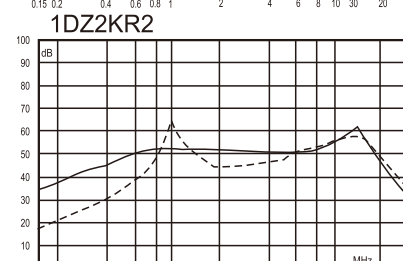
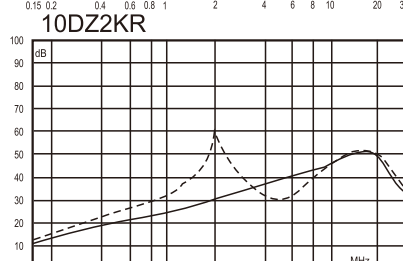
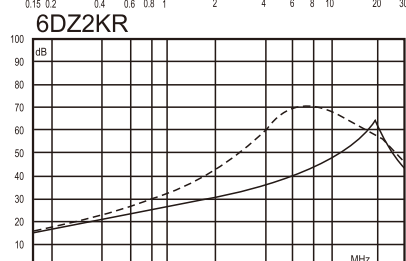
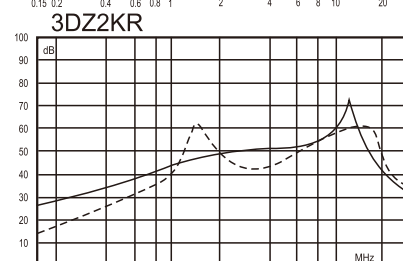
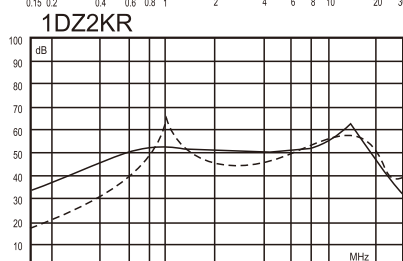
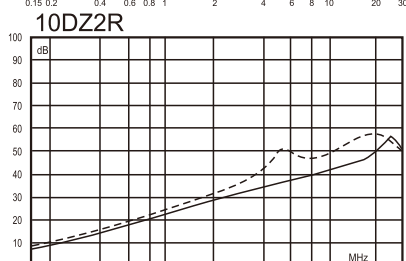
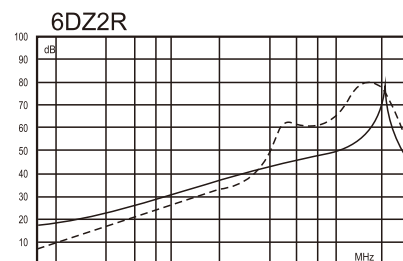
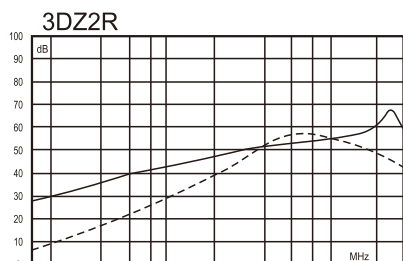
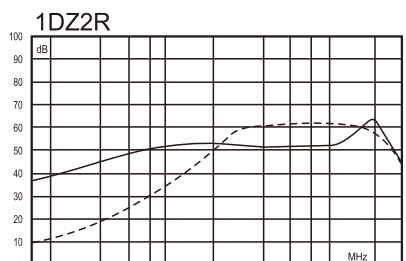


fig.3

插入损耗 Insertion Loss in dB

(50 Ω 测量系统, IEC/CISPR No.17 号出版物 Measured in 50 Ω system, as IEC/CISPR No. 17)



—— 共模(Common Mode)
----- 差模(Differential Mode)

特点 Features

- 插针式PCB板安装
PCB Mounting
- 体积紧凑
Compact Unit



应用 Applications

- 适用于模块电源与小型电子仪器AC或DC侧
Modular Power Supplies & Mini-Electronic Instruments

技术参数 Technical Data

额定电压 Rated Voltage	250VAC
工作频率 Operating Frequency	50/60Hz
额定电流 Rated Current	1A-16A
耐压试验:(一分钟)	1500VDC (line/line)
Test Voltage (1min)	1500VAC (line/ground)
气候类别 Climatic Category	25/085/21

型号 Model	端子方式 Terminal		额定电流 Rated Current (A)	接地电容量 Ground Capacitance (nF)	泄漏电流 Leakage Current ≤(mA)	放电电阻 Discharge Resistance (MΩ)	电路图 Circuit Diagram fig.	外形尺寸 Dimension fig. 见附录 (77页) See appendix P77
	入 Input	出 Output						
DL-1PC	■	■	1	2.2	0.5		1	H1
DL-2PC	■	■	2	2.2	0.5		1	H2
DL-3PC	■	■	3	2.2	0.5		1	H2
DL-6PC	■	■	6	3.3	0.5		1	H2
DL-6PC2	■	■	6	3.3	0.5		1	H3
DL-3PC2	■	■	3	4.7	0.8	1.5	2	H4
DL-3PC4	■	■	3	2.2	0.5		3	H4
DL-16PC	■	■	16	2.2	0.5	1	4	H5

电原理图 Typical Circuit Diagram

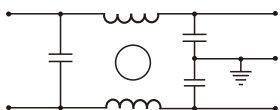


fig.1

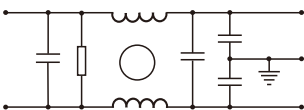


fig.2

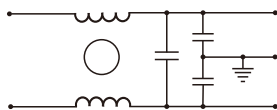


fig.3

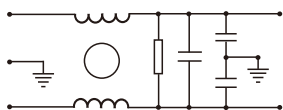
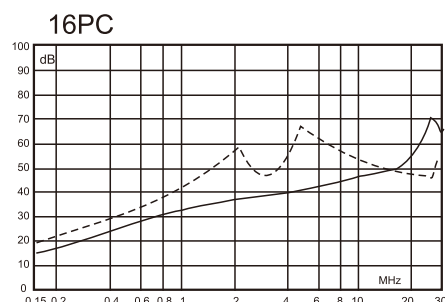
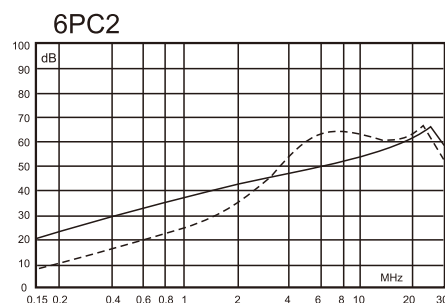
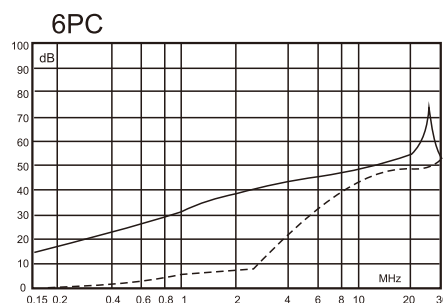
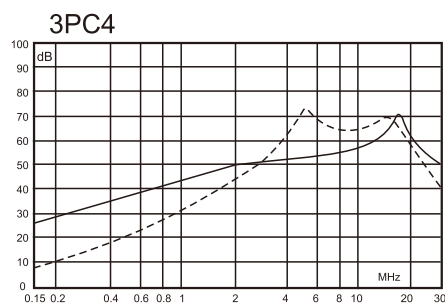
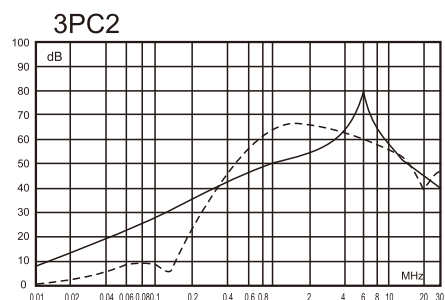
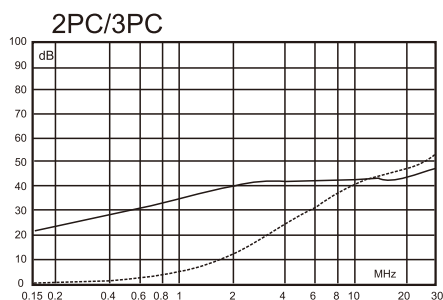
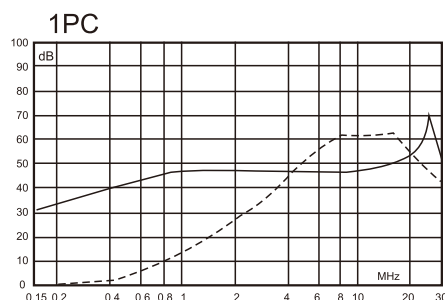


fig.4

插入损耗 Insertion Loss in dB

(50 Ω 测量系统, IEC/CISPR No.17 号出版物 Measured in 50 Ω system, as IEC/CISPR No. 17)

32



—— 共模(Common Mode)
 ----- 差模(Differential Mode)

特点 Features

- 插针式PCB板安装，FPQ系列带连接器
PCB Mounting, FPQ Connector
- 体积紧凑
Compact Unit

应用 Applications

- 适用于模块电源与小型电子仪器的直流侧
Modular Power Supplies & Mini-Electronic Instruments(DC SIDE)



技术参数 Technical Data

额定电压 Rated Voltage	80VDC
额定电流 Rated Current	1A-60A
耐压试验:(一分钟) Test Voltage (1min)	500VDC (line/ground)
气候类别 Climatic Category	25/085/21

型号 Model	端子方式 Terminal		额定电流 Rated Current (A)	接地电容量 Ground Capacitance (nF)	泄漏电流 Leakage Current $\leq$ (mA)	放电电阻 Discharge Resistance (M Ω)	电路图 Circuit Diagram fig.	外形尺寸 Dimension fig. 见附录 (77页) See appendix P77
	入 Input	出 Output						
DL-2FPC	■	■	2	2.2	-		1	H2
DL-3FPC	■	■	3	33	-		2	H6
DL-5FPC2	■	■	5	4.7	-		3	H7
DL-6FPC	■	■	6	22	-		1	H8
DL-10FPC	■	■	10	33	-		2	H9
DL-10FPC4	■	■	10	4.7	-		4	H10
DL-15FPC1	■	■	15	4.7	-		4	H11
DL-20FPC1	■	■	20	220	-		2	H12
DL-30FPC1	■	■	30	220	-		2	H13
DL-40FPC1	■	■	40	220	-		2	H14
DL-60FPC	■	■	60	3300	-		2	H15
DL-10FPQ		■	10	100	-		2	H16
DL-20FPQ		■	20	100	-		2	H16
DL-50FPQ		■	50	220	-		5	H17

电原理图 Typical Circuit Diagram

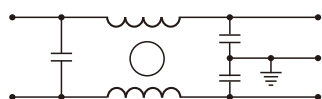


fig.1

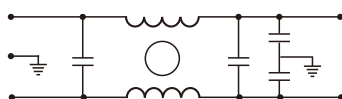


fig.2

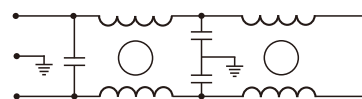


fig.3

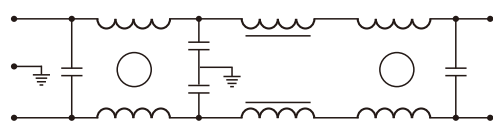


fig.4

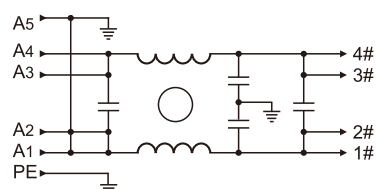
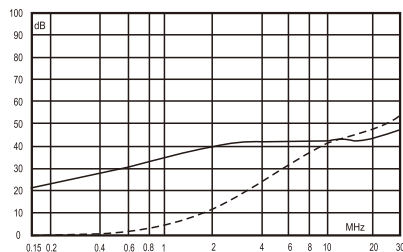


fig.5

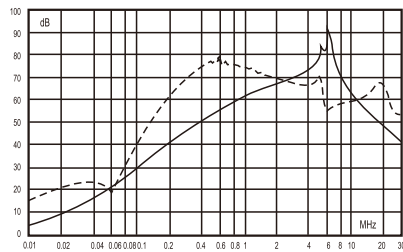
插入损耗 Insertion Loss in dB

(50 Ω 测量系统, IEC/CISPR No.17 号出版物 Measured in 50 Ω system, as IEC/CISPR No.17)

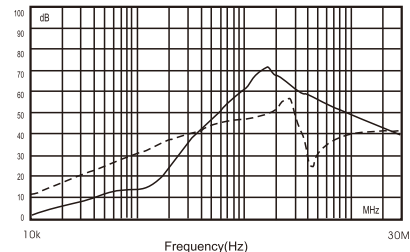
2FPC



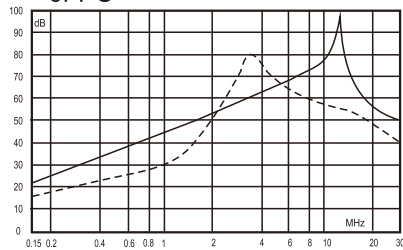
3FPC



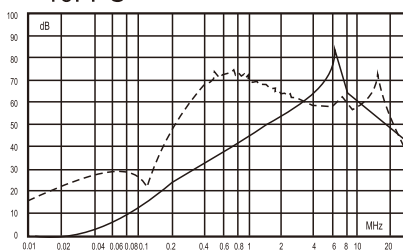
5FPC2



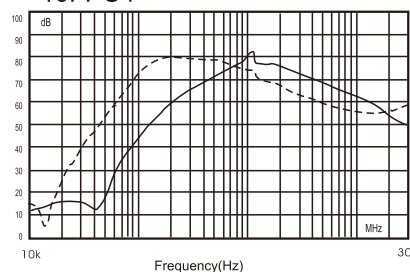
6FPC



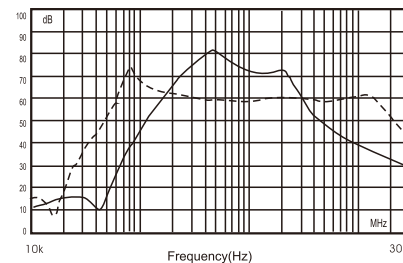
10FPC



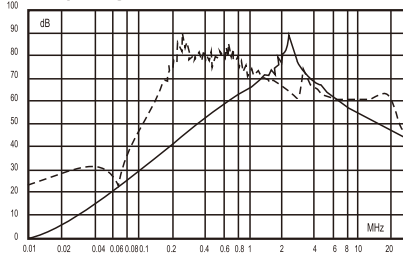
10FPC4



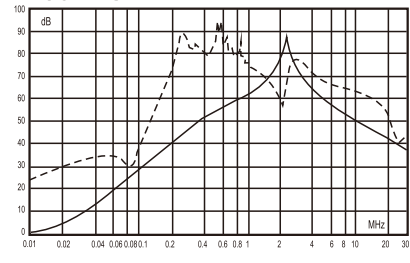
15FPC1



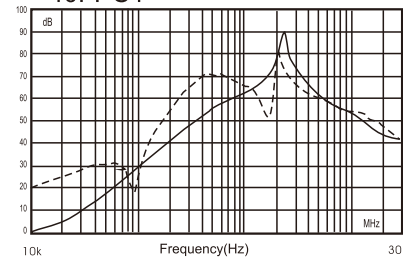
20FPC1



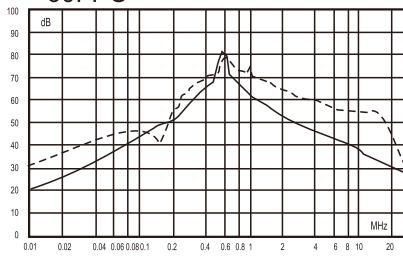
30FPC1



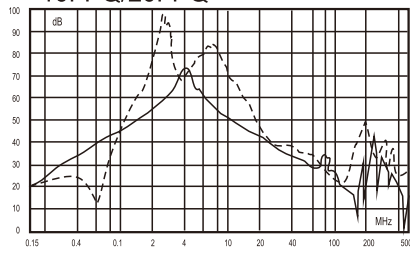
40FPC1



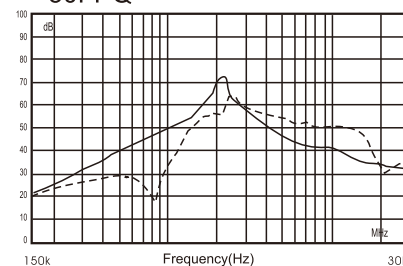
60FPC



10FPQ/20FPQ



50FPQ



—— 共模(Common Mode)
 差模(Differential Mode)

特点 Features

- 该系列为穿心电容滤波的高性能交/直流滤波器
- 特殊的馈通安装方式，在宽频段内具有高的插入损耗值，抑制电磁干扰频率至GHz

应用 Applications

- 屏蔽室
- 程控交换机，通信基站
- 电气设备和系统
- 电源

技术参数 Technical Data

额定电压 Rated Voltage

250VAC@50/60Hz, 80VDC~600VDC

额定电流 Rated Current

10A~400A

气候类别 Climatic Category

40/085/56

型号 Model	额定电压 Rated Voltage (V)	额定电流 Rated Current (A)	耐压测试 Tset Voltage (2s)	电容量 Capacitance ±20%	电路图 Circuit Diagram	外形图 Case Dimensions	插入损耗 Insertion Loss in dB	重量 Weight (g)
DL-10DTC3	250VAC	10A	2500VDC	0.22uF	fig. 1	fig. 1	fig. 1	58
DL-16DTC	250VAC	16A	2250VDC	2×0.022μF	fig. 2	fig. 1	fig. 2	78
DL-25DTC3	250VAC	25A	2700VDC	2×0.1uF	fig. 2	fig. 2	fig. 3	71
DL-30DTC-HV	250VAC	30A	2500VDC	10μF	fig. 1	fig. 1	fig. 4	82
DL-50DTC2	250VAC	50A	2121VDC	2×1.0μF	fig. 2	fig. 3	fig. 5	225
DL-63DTC-HV	250VAC	63A	2500VDC	33μF	fig. 1	fig. 1	fig. 6	1360
DL-100DTC3	250VAC	100A	2200VDC	2×3.0uF	fig. 2	fig. 1	fig. 7	390
DL-200DTC	250VAC	200A	2250VDC	2×1.0μF	fig. 2	fig. 1	fig. 8	800
DL-250DTC1	250VAC	250A	2250VDC	2×1.0μF	fig. 2	fig. 1	fig. 9	900
DL-16FTC2	440VDC	16A	1500VDC	2×0.1uF	fig. 2	fig. 4	fig. 10	58
DL-30FTC1	600VDC	30A	2500VDC	2×18nF	fig. 2	fig. 4	fig. 11	72
DL-50FTC2	200VDC	50A	1000VDC	0.22μF	fig. 1	fig. 5	fig. 12	40
DL-65FTC3	250VDC	65A	2250VDC	2×0.25μF	fig. 2	fig. 6	fig. 13	220
DL-75FTC3	400VDC	75A	1500VDC	4μF	fig. 1	fig. 7	fig. 14	180
DL-100FTC2	250VDC	100A	1800VDC	0.47μF	fig. 1	fig. 8	fig. 15	190
DL-120FTC2	210VDC	120A	1350VDC	4μF	fig. 1	fig. 1	fig. 16	203
DL-230FTC	400VDC	230A	2121VDC	2×3.3μF	fig. 2	fig. 1	fig. 17	800
DL-250FTC2	700VDC	250A	2250VDC	2×0.047μF	fig. 2	fig. 1	fig. 18	900
DL-400FTC	80VDC	400A	500VDC	10μF	fig. 1	fig. 9	fig. 19	602
DL-2×50FTC	200VDC	50A	1500VDC	2×0.1μF	fig. 3	fig. 10	fig. 20	133
DL-2×100DTC	250VAC	100A	2250VAC	2×0.047μF	fig. 3	fig. 11	fig. 21	560
DL-4×60FTC	48VDC	60A	1075VDC	4×4.7μF	fig. 4	fig. 12	fig. 22	1300





电原理图 Typical Circuit Diagram

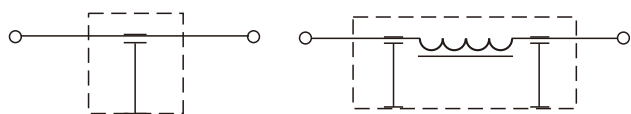


fig.1

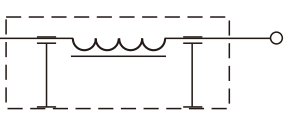


fig.2



fig.3

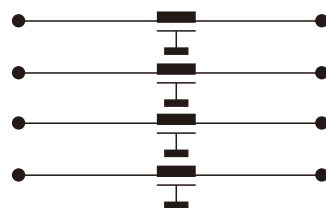


fig.4

外形尺寸 Outline Drawing and Dimensions (mm)

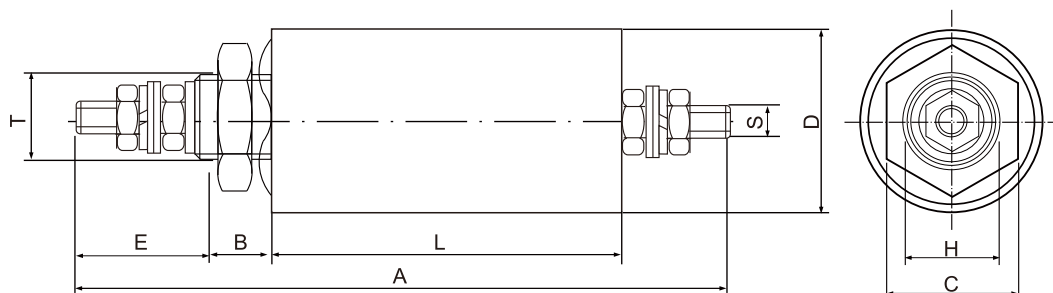


fig.1

型 号 Model	D	L	A	B	C	E	T	S	H	扭 矩Torque	
										On T Nm	On S Nm
DL-10DTC3	Φ25	34	72	12	17	16	M12×1	M3	-	4	0.5
DL-16DTC	Φ42	54	110	18	30	20	M20×1	M4	-	10	1.2
DL-30DTC-HV	Φ55	78	146	15	21	30	M16×1	M6	14.3±0.2	4	2.5
DL-63DTC-HV	Φ81	116	196	20	40	34	M32×1.5	M8	30.2±0.2	24	5
DL-100DTC3	Φ45	86	160	15	32	48	M24×1	M8	22.3±0.2	14	5
DL-200DTC	Φ50	83	160	18	40	32	M30×1.5	M10	-	20	8
DL-250DTC1	Φ52	89	190	16	40	41	M32×1.5	M12	-	24	11
DL-120FTC2	Φ30	60	133	16	27	32	M20×1	M8	-	10	5
DL-230FTC	Φ52	89	168	16	40	32	M32×1.5	M10	-	24	8
DL-250FTC2	Φ52	89	190	16	40	45	M32×1.5	M12	-	24	11

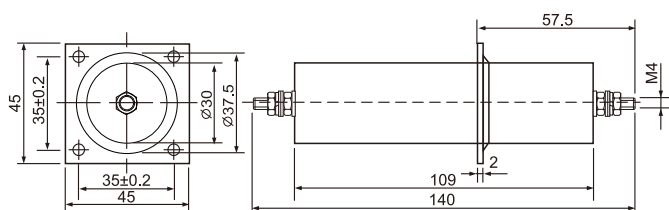


fig.2

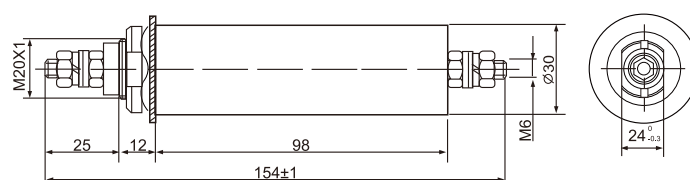


fig.3

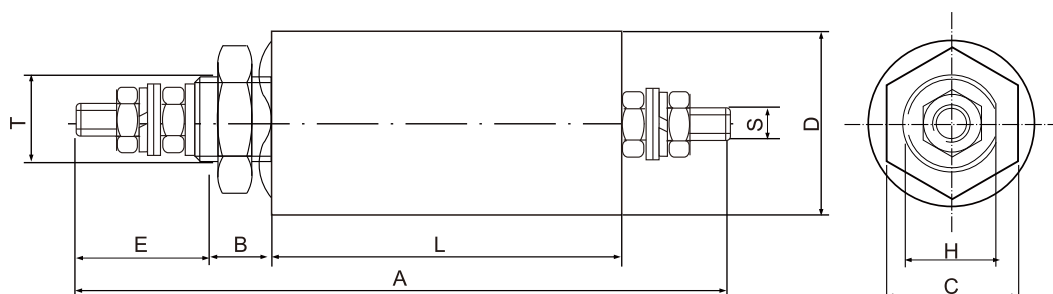


fig.4



型 号 Model	D	L	A	B	C	E	T	S	H	扭 矩Torque	
										On T Nm	On S Nm
DL-16FTC2	Φ20	45	90	11	16.5	19	M12×1	M4	11	4	1.2
DL-30FTC1	Φ20	45	100	11	16.5	24.5	M12×1	M5	11	4	2

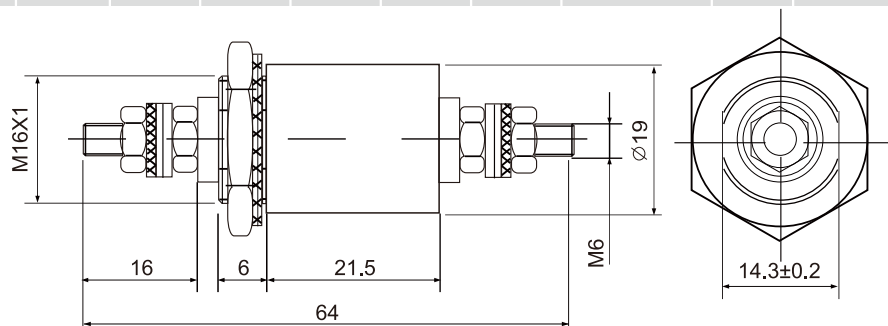


fig.5

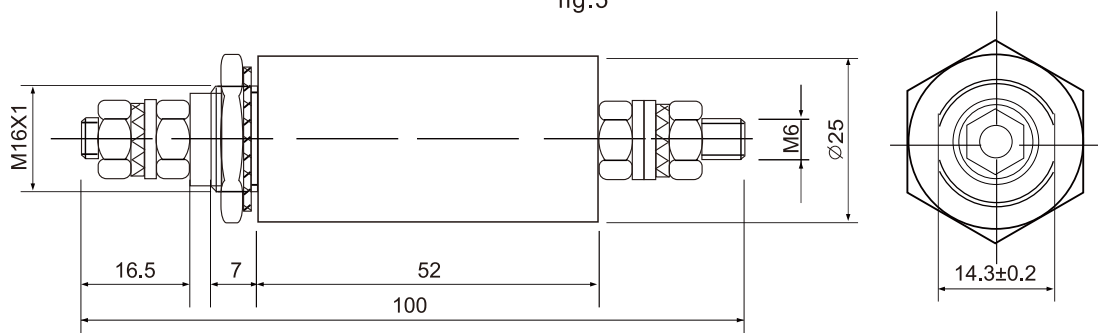


fig.6

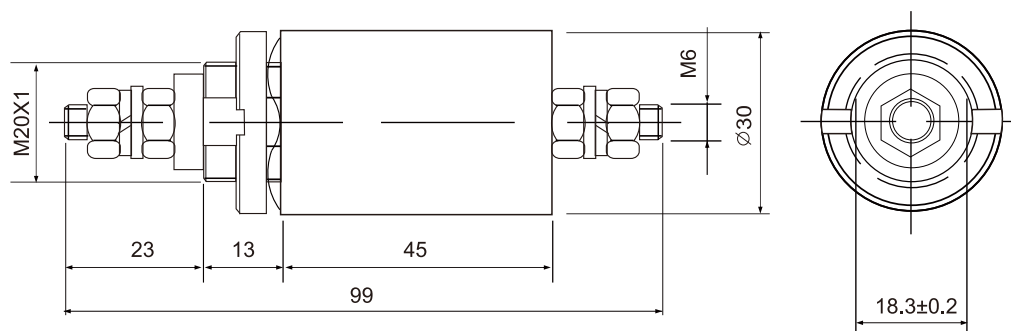


fig.7

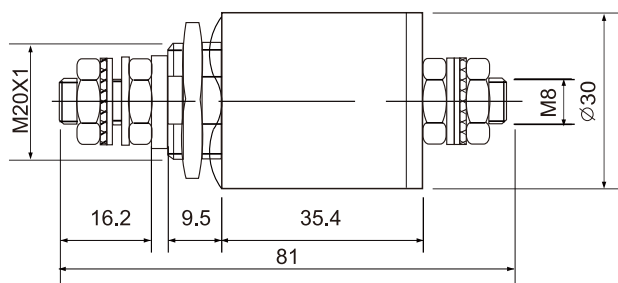


fig.8

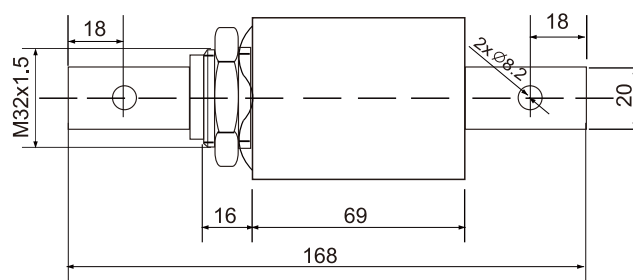


fig.9

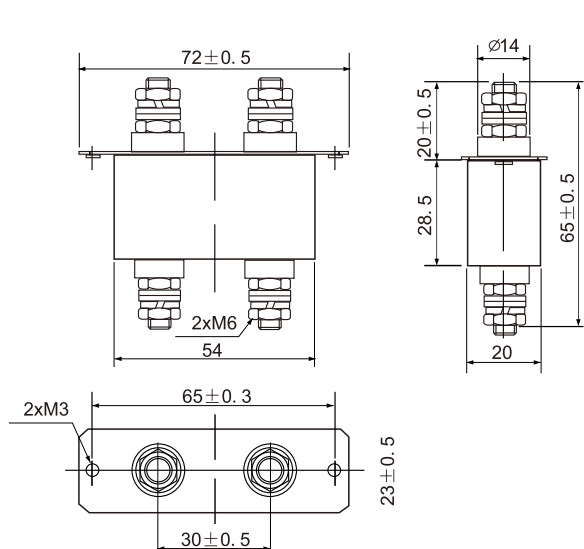


fig.10

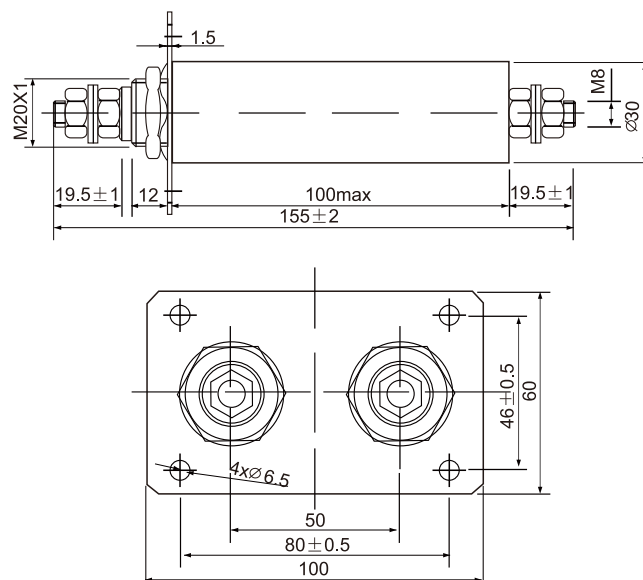


fig.11

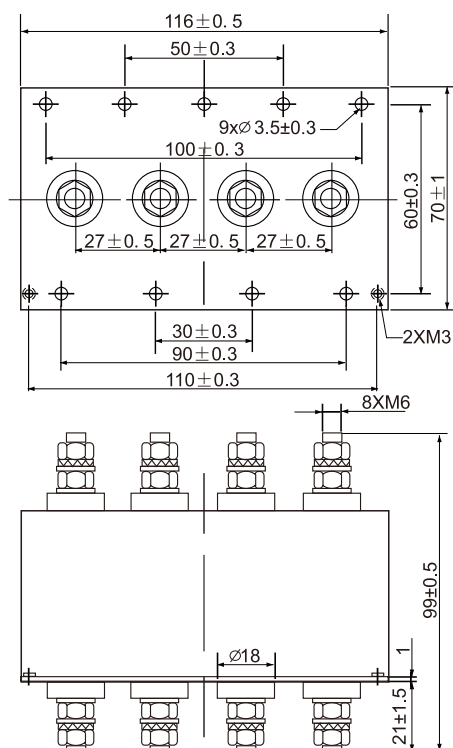


fig.12

插入损耗 Insertion Loss in dB

(50Ω 测量系统, IEC/CISPR No.17 号出版物 Measured in 50Ω system, as IEC/CISPR No.17)

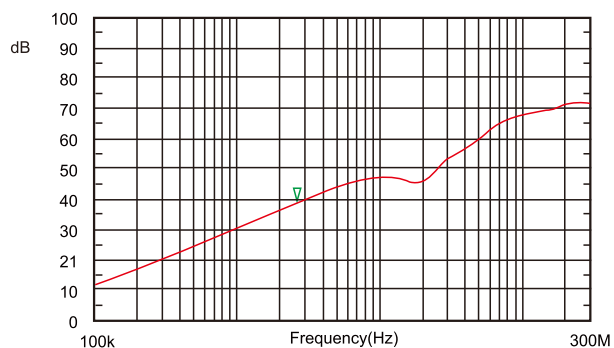


fig.1

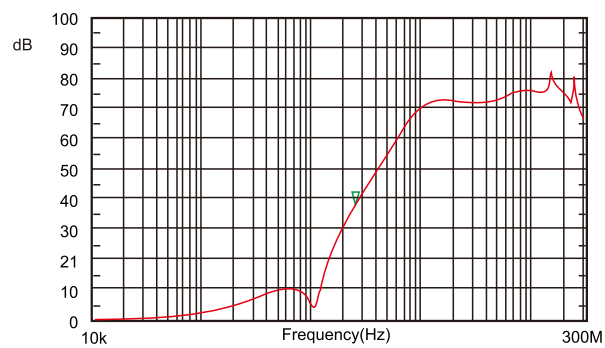


fig.2

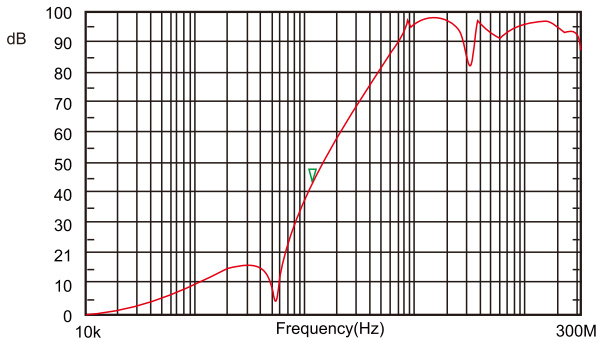


fig.3

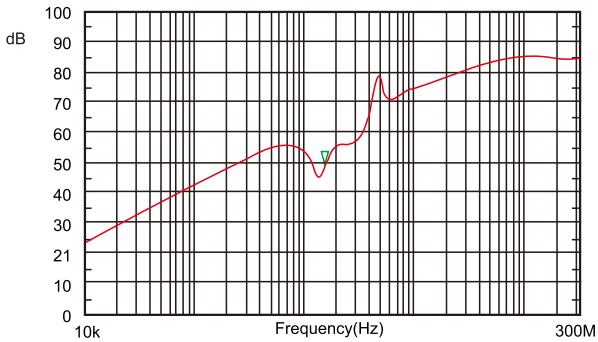


fig.4

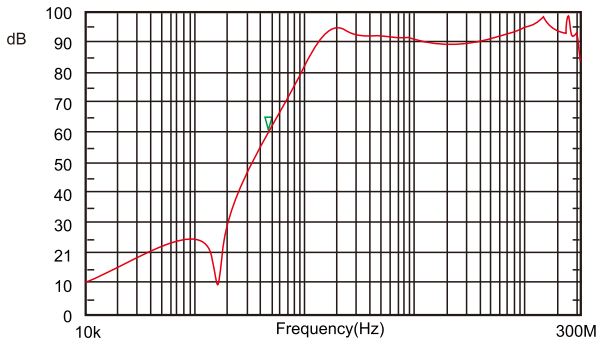


fig.5

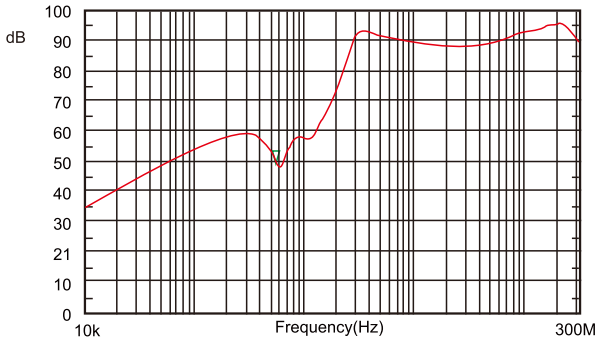


fig.6

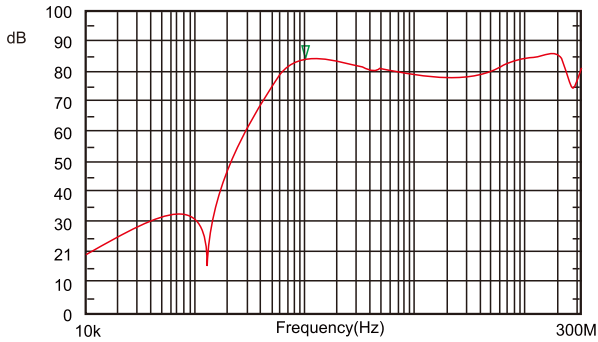


fig.7

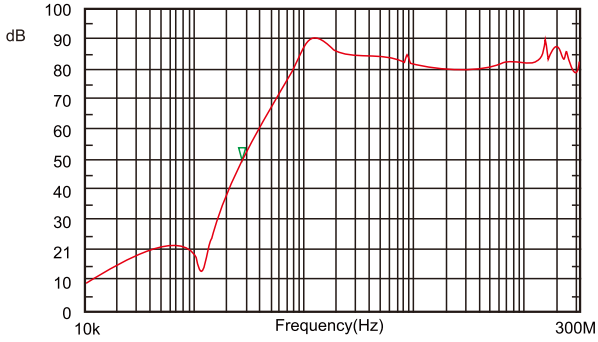


fig.8

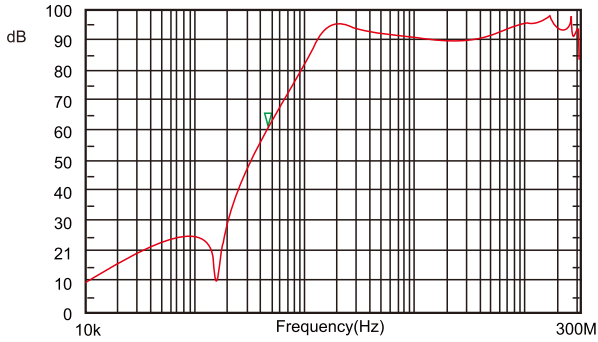


fig.9

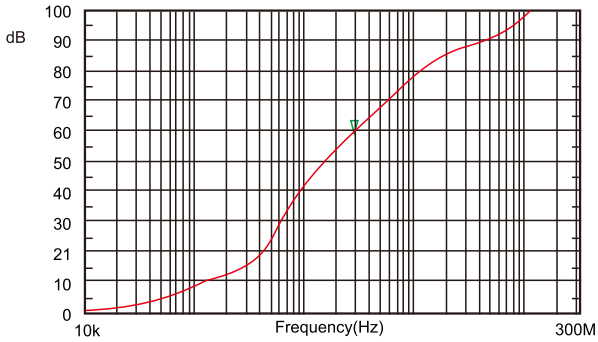


fig.10

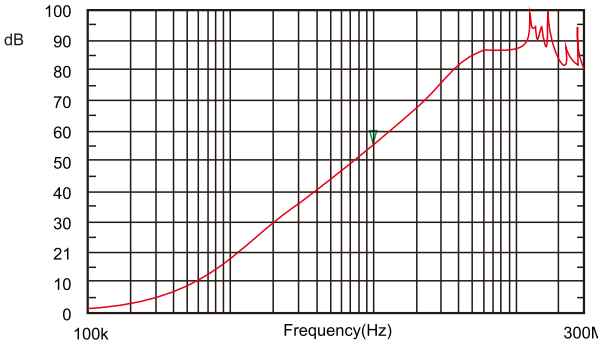


fig.11

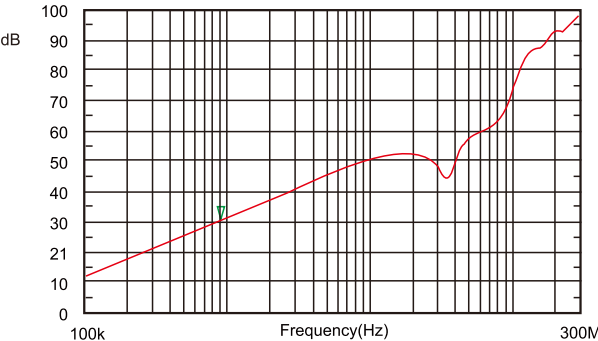


fig.12

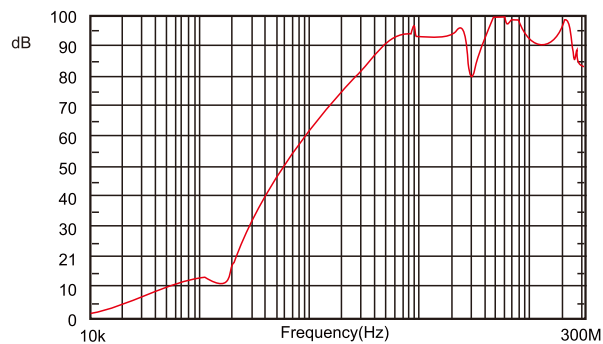


fig.13

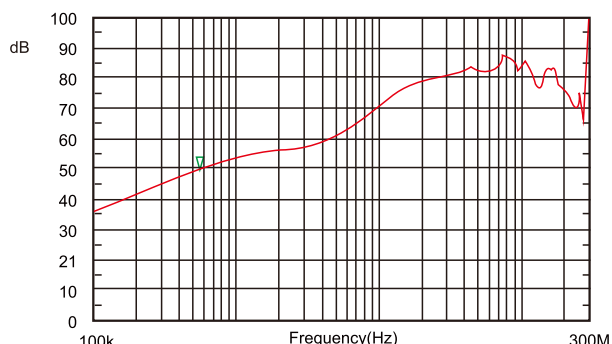


fig.14

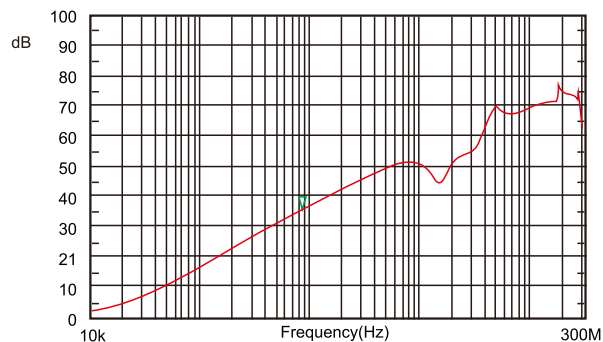


fig.15

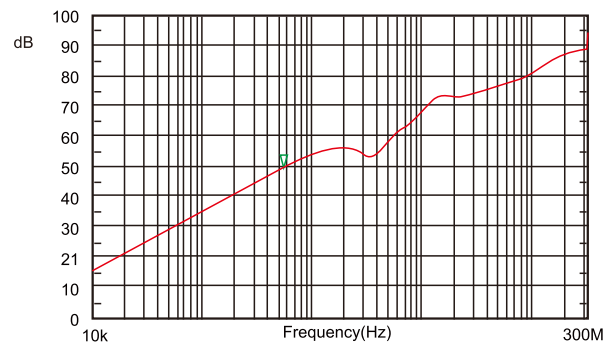


fig.16

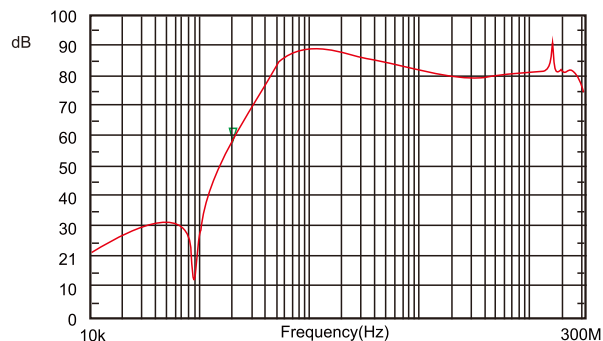


fig.17

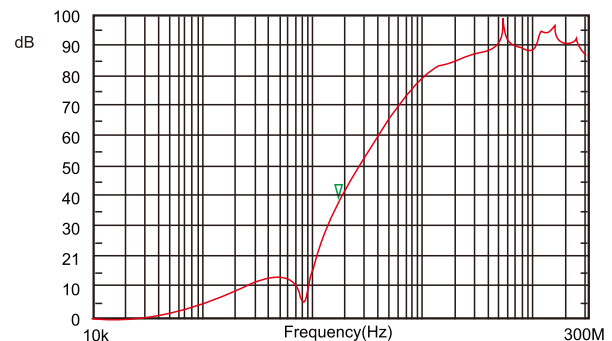


fig.18

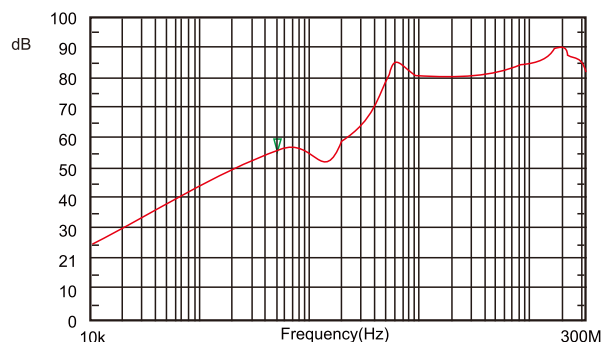


fig.19

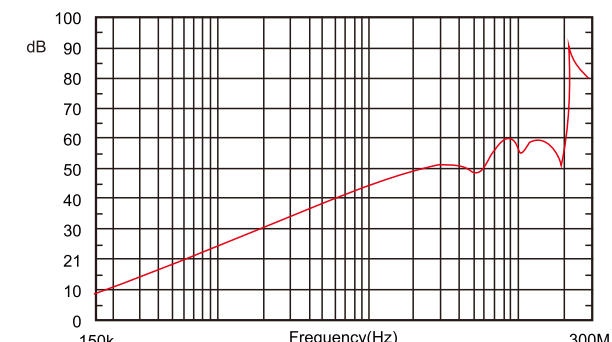


fig.20

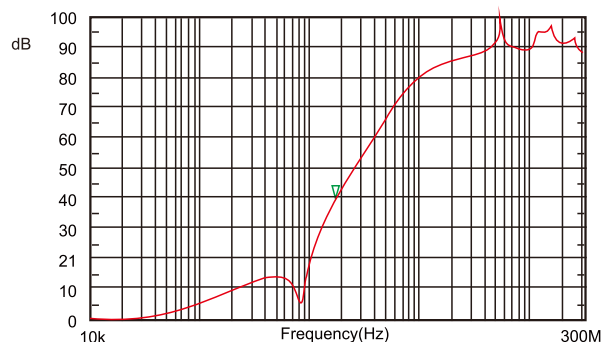


fig.21

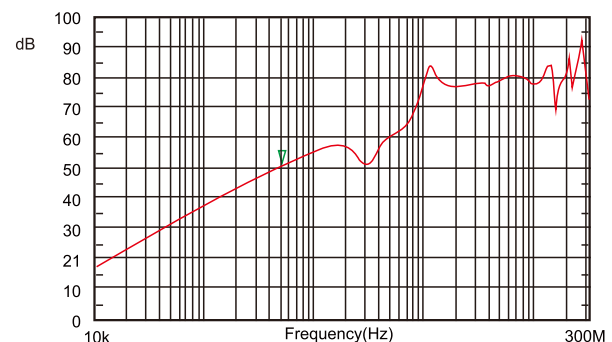


fig.22

为满足低至-55工作环境的工业或军用需要，本公司备有J系列超低环境温度专用滤波器，技术性能指标可参考本公司其它滤波器，体积不变或略有增大，型号中添加 J以示区别。该系列滤波器适用于直流、单相及三相交流供电的电子设备，是为通过电磁兼容军标GJB151A/152A中的传导干扰要求而设计开发的。

Military Filters specialise for industrial & military with operating temperature less than - 55. Add J to the parts with the same technical data. Suitable for DC. Single phase and three phase AC electronic equipment meet GJB151A/152A standards.



技术参数 Technical Data

技术条件 Conditions	单相	直流
额定电压 Rated Voltage	250VAC	80VDC
工作频率 Operating Frequency	0~400Hz	DC
耐压试验(一分钟) (line/line) Test Voltage(1 min) (line/ground)	1500VDC 1500VAC	400VDC 700VDC
温度范围 Temperature Range	-55℃~+85℃	

型 号 Model	端子方式 Terminal		额 定 电 流 Rated Current (A)	接地电容量 Ground Capacitance (nF)	泄漏电流 Leakage Current ≤(mA)	放电电阻 Discharge Resistance (M Ω)	电 路 图 Circuit Diagram fig.	外形尺寸 Dimension fig. 见附录 (77页) See appendix P77
	入 Input	出 Output						
交 流								
DL-2D1J			2	6.8	1.0	1.5	1	A2
DL-6D1J			6	3.3	0.5		1	A2
DL-15D1J			15	5.0	0.8	0.68	1	D2
DL-30D1J			30	5.0	0.8	1.0	1	D1
DL-40D3J			40	5.0	0.8	0.68	1	E2
DL-60D3J			60	5.0	0.8	0.68	1	E2
DL-3T11J			3	5.0	0.8	1.5	2	A4
DL-6T1J			6	3.3	0.5	1.0	3	A4
DL-10T1J			10	3.3	0.5	1.5	4	A3
DL-10TH1J			10	5.0	0.8	0.68	5	F3
DL-20TH1J			20	5.0	0.8	0.68	5	G3
DL-30TH1J			30	3.3	0.5	1.0	6	G3
DL-40TH1J			40	5.0	0.8	0.68	5	G5
DL-80T1J			80	5.0	0.8	1.0	4	G6
直 流								
DL-3F3J			3	22	-		1	B2
DL-6F1J			6	22	-		1	A4
DL-30F1J			30	22	-		1	D2
DL-50F3J			50	22	-		1	E2
DL-80F3J			80	22	-		1	E5
DL-100F3J			100	22	-		1	E5



电原理图 Typical Circuit Diagram

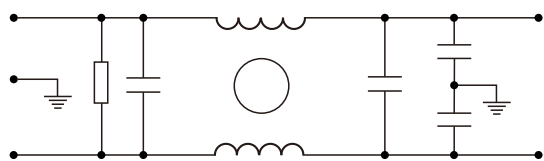


fig.1

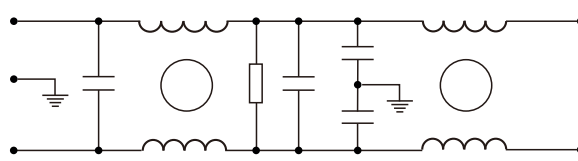


fig.2

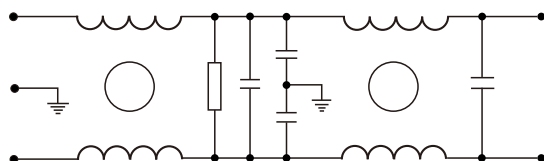


fig.3

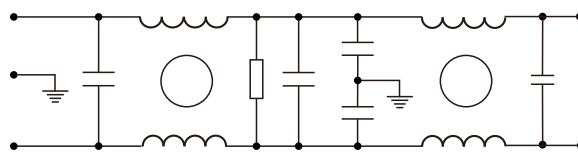


fig.4

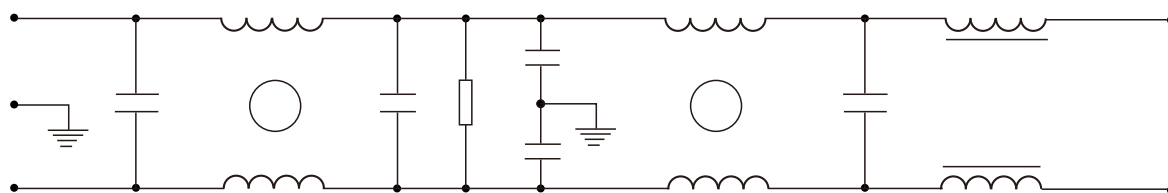


fig.5

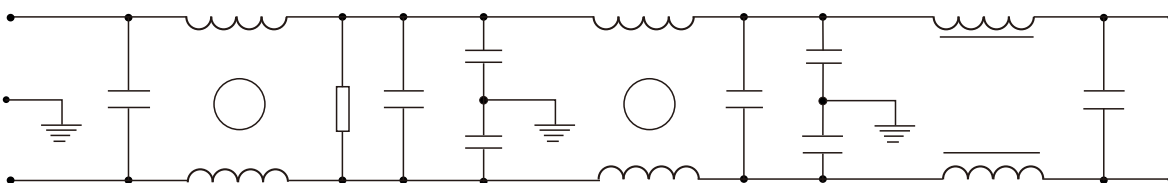
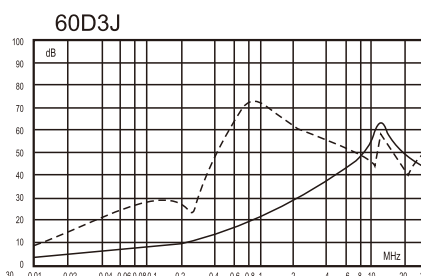
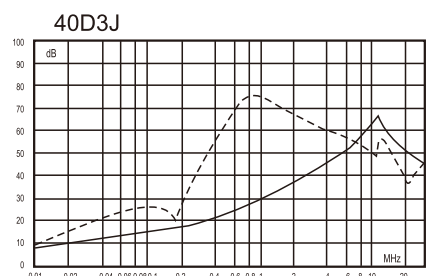
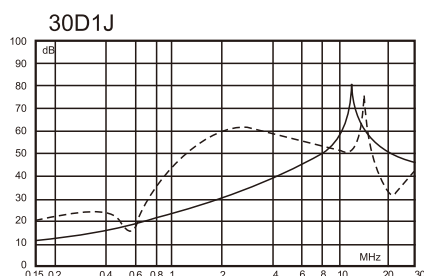
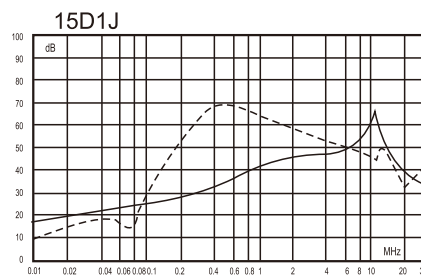
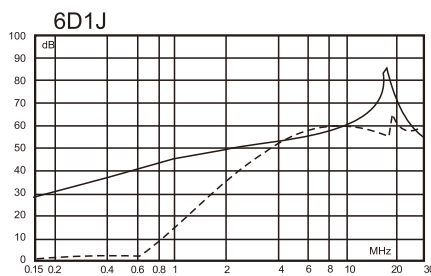
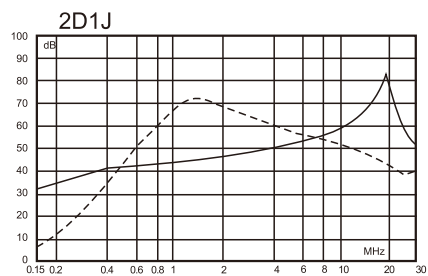
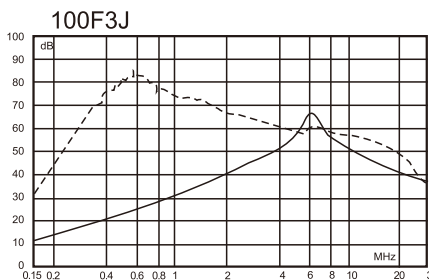
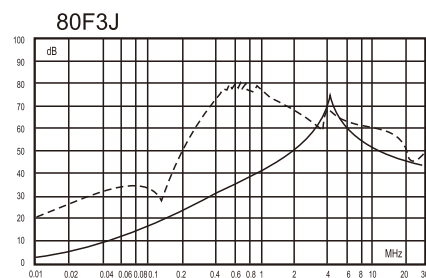
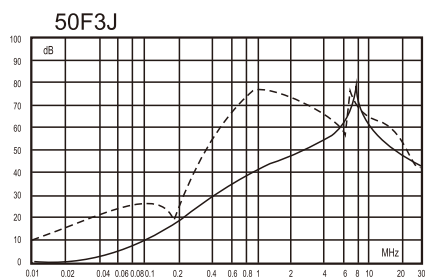
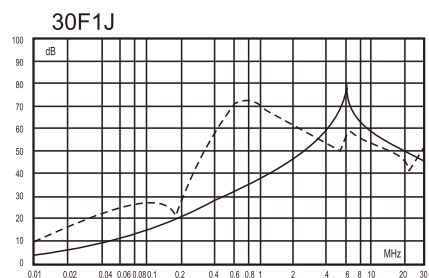
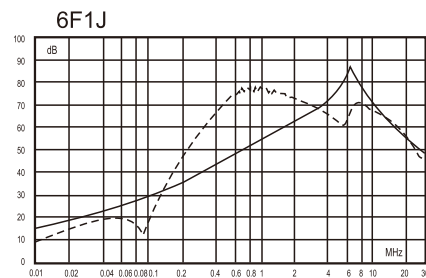
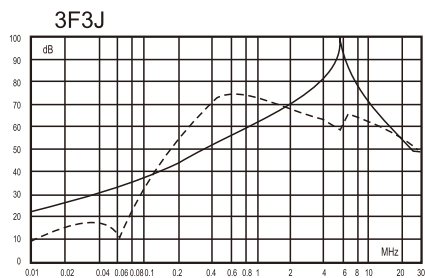
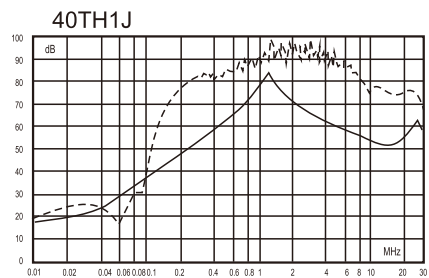
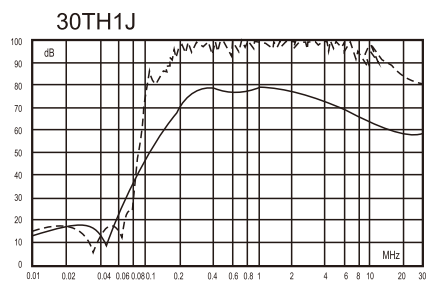
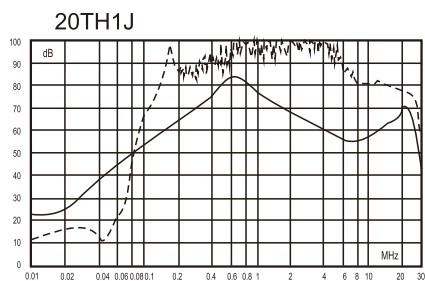
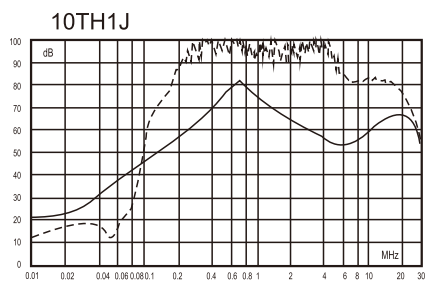
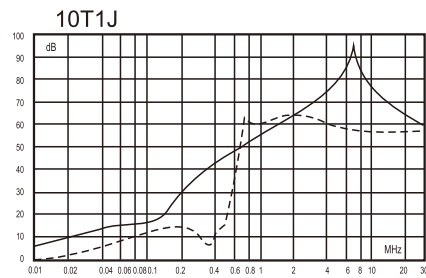
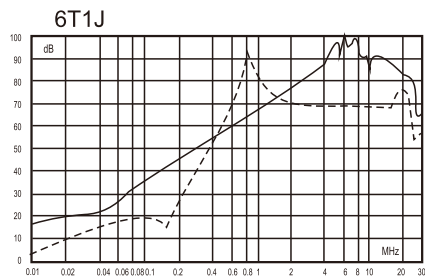
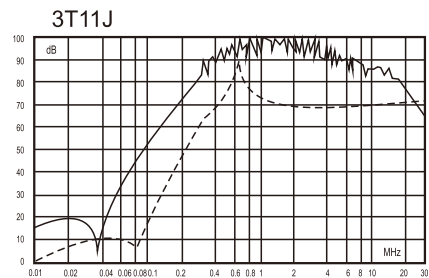


fig.6

插入损耗 Insertion Loss in dB

(50 Ω 测量系统, IEC/CISPR No. 17 号出版物 Measured in 50 Ω system, as IEC/CISPR No. 17)



—— 共模(Common Mode)

----- 差模(Differential Mode)

特点 Features

- 体积小，常规通用
Compact unit, general purpose
- 对三相平衡不平衡负载均有效
Effective for both balanced and unbalanced
three phase loads

应用 Applications

- 抑制沿电源线传输的工业无线电干扰
Suppress the industrial radio interference along power lines



技术参数 Technical Data

额定电压 Rated Voltage	250/440 VAC
工作频率 Operating Frequency	50/60Hz
额定电流 Rated Current	5A~600A
耐压试验 （一分钟） Test Voltage (1min)	1500 VDC (line/line) 2250 VDC (line/ground)
气候类别 Climatic Category	25/085/21

型号 Model	端子方式 Terminal		额定电流 Rated Current (A)	接地电容量 Ground Capacitance (nF)	放电电阻 Discharge Resistance (MΩ)	电路图 Circuit Diagram fig.	外形尺寸 Dimension fig.
	入 Input	出 Output					
DL-5EA			5	6.8		1	1
DL-10EA			10	6.8		1	1
DL-5EAX1			5	6.8		1	2
DL-10EAX1			10	6.8		1	2
DL-15EA3			15	6.8		2	5
DL-20EA3			20	6.8		2	5
DL-25EA3			25	6.8		2	5
DL-30EA3			30	6.8		2	5
DL-40EA3			40	10	1	2	6
DL-50EA3			50	10	1	2	6
DL-80EA1			80	10	0.68	2	3
DL-100EA1			100	13.6	0.44	2	4
DL-150EA1			150	200	0.44	2	3
DL-200EA5			200	200	0.68	3	3
DL-300EA5/60			300	690	0.68	4	7
DL-600EA5/60			600	690	0.68	4	8



电原理图 Typical Circuit Diagram

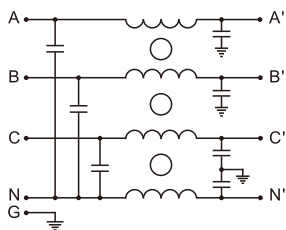


fig.1

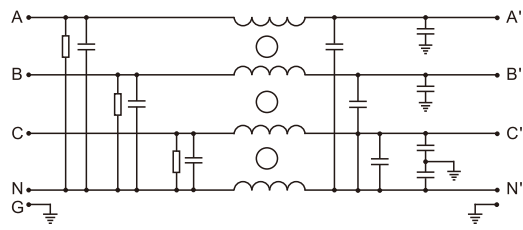


fig.2

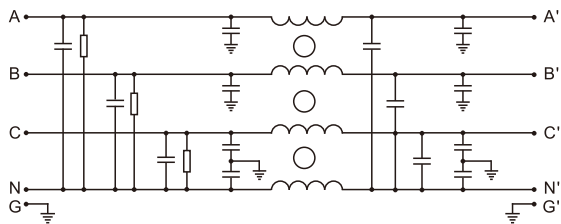


fig.3

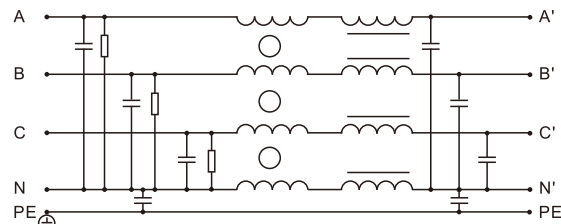


fig.4

外形尺寸 Outline Drawing and Dimensions (mm)

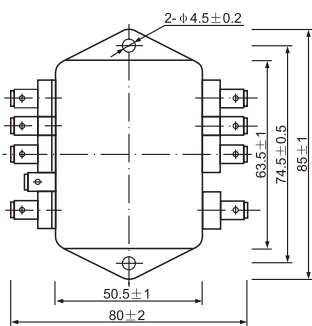


fig.1

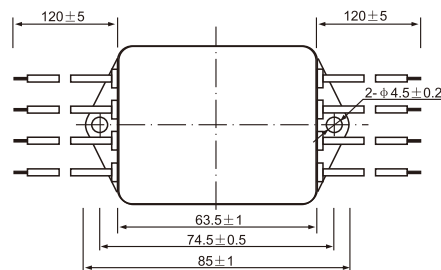
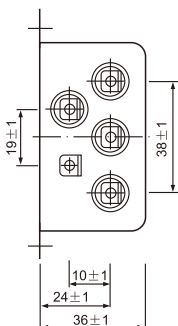


fig.2

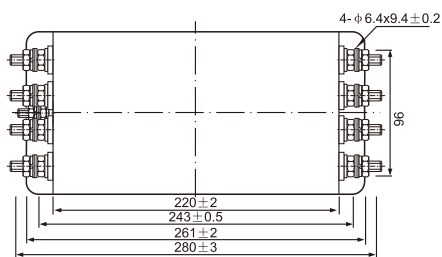
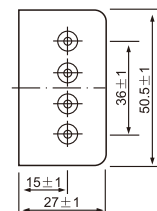


fig.3

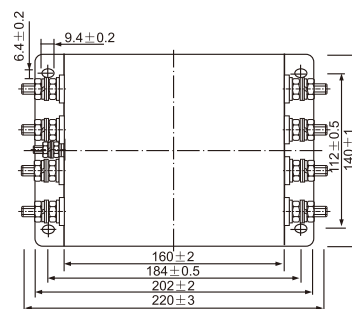
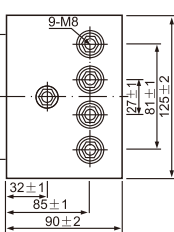


fig.4

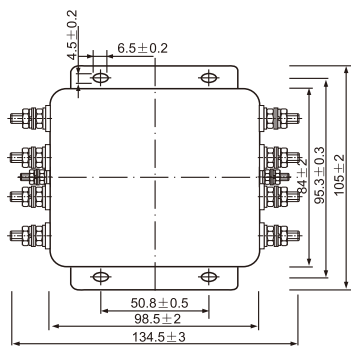
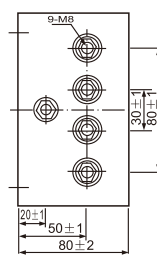


fig.5

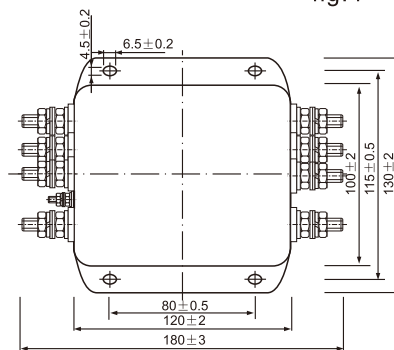
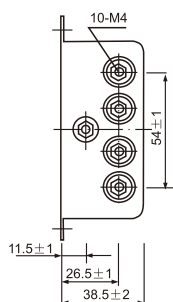
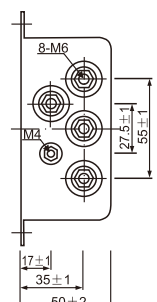


fig.6



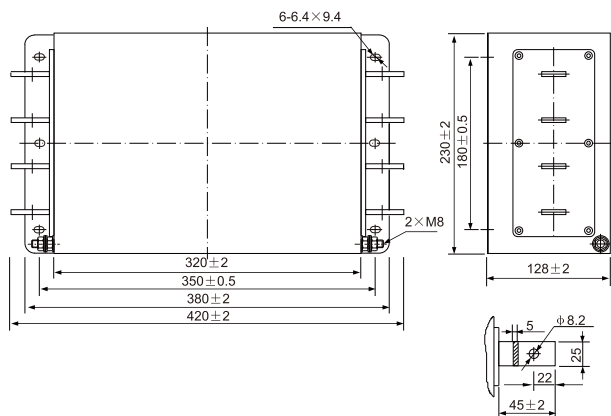


fig.7

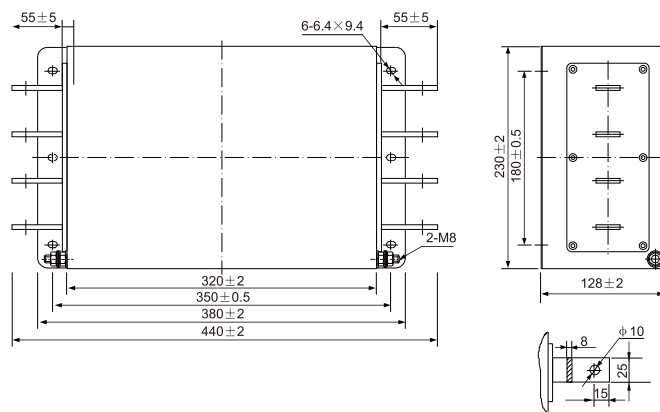
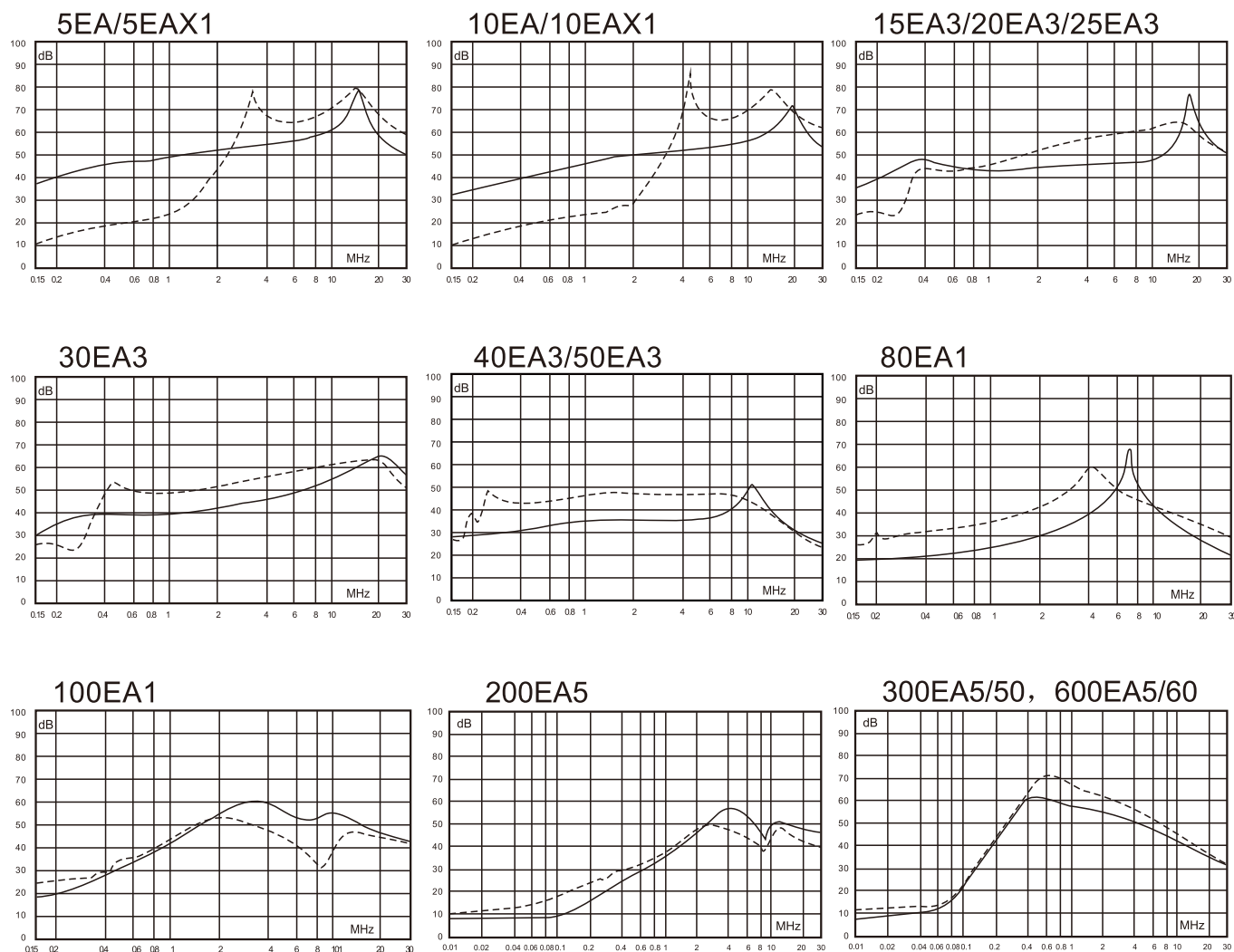


fig.8

插入损耗 Insertion Loss in dB

(50 Ω 测量系统, IEC/CISPR No.17 号出版物 Measured in 50 Ω system, as IEC/CISPR No.17)



—— 共模(Common Mode)

----- 差模(Differential Mode)

特点 Features

- 极佳的低频段衰减特性，具有良好的共模和差模干扰抑制性能。
Excellent attenuation to low frequency, high performance of common mode and differential mode interference suppression.
- 低泄漏电流
Low leakage current.



应用 Applications

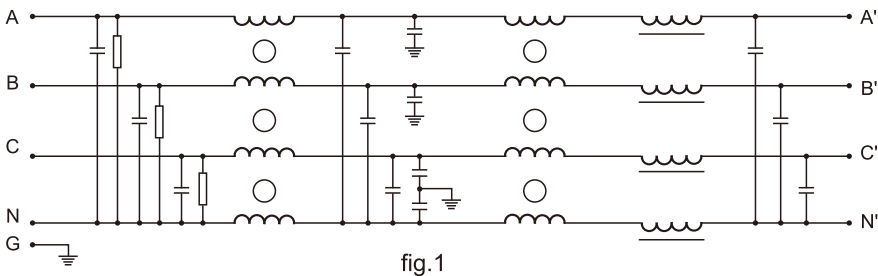
- 适用于数据处理系统、电信系统、医用设备和工业控制装置中的高性能电源滤波。
Available for digital systems, telecom systems, medical equipments and industrial installations.

技术参数 Technical Data

额定电压 Rated Voltage	250/440 VAC
工作频率 Operating Frequency	50/60Hz
额定电流 Rated Current	5A-35A
耐压试验(一分钟) Test Voltage(1 min)	1500 VDC (line/line) 2250 VDC (line/ground)
气候类别 Climatic Category	40/085/21

型号 Model	端子方式 Terminal		额定电流 Rated Current (A)	接地电容量 Ground Capacitance (nF)	放电电阻 Discharge Resistance (KΩ)	电路图 Circuit Diagram fig.	外形尺寸 Dimension fig.
	入 Input	出 Output					
DL-5EAT1			5	47	440	1	1
DL-10EAT1			10	47	440	1	1
DL-20EAT1			20	47	440	1	1
DL-25EAT1			25	47	440	1	1
DL-35EAT1			35	47	440	1	1

电原理图 Typical Circuit Diagram



外形尺寸 Outline Drawing and Dimensions (mm)

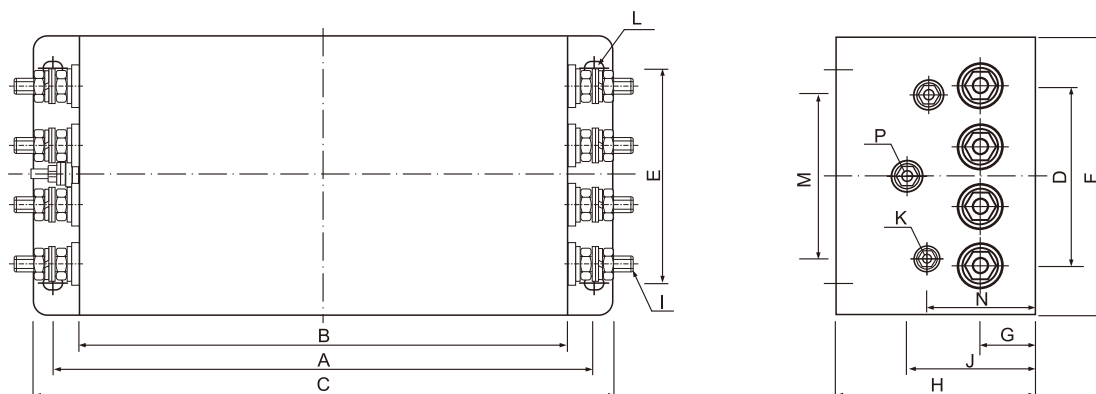
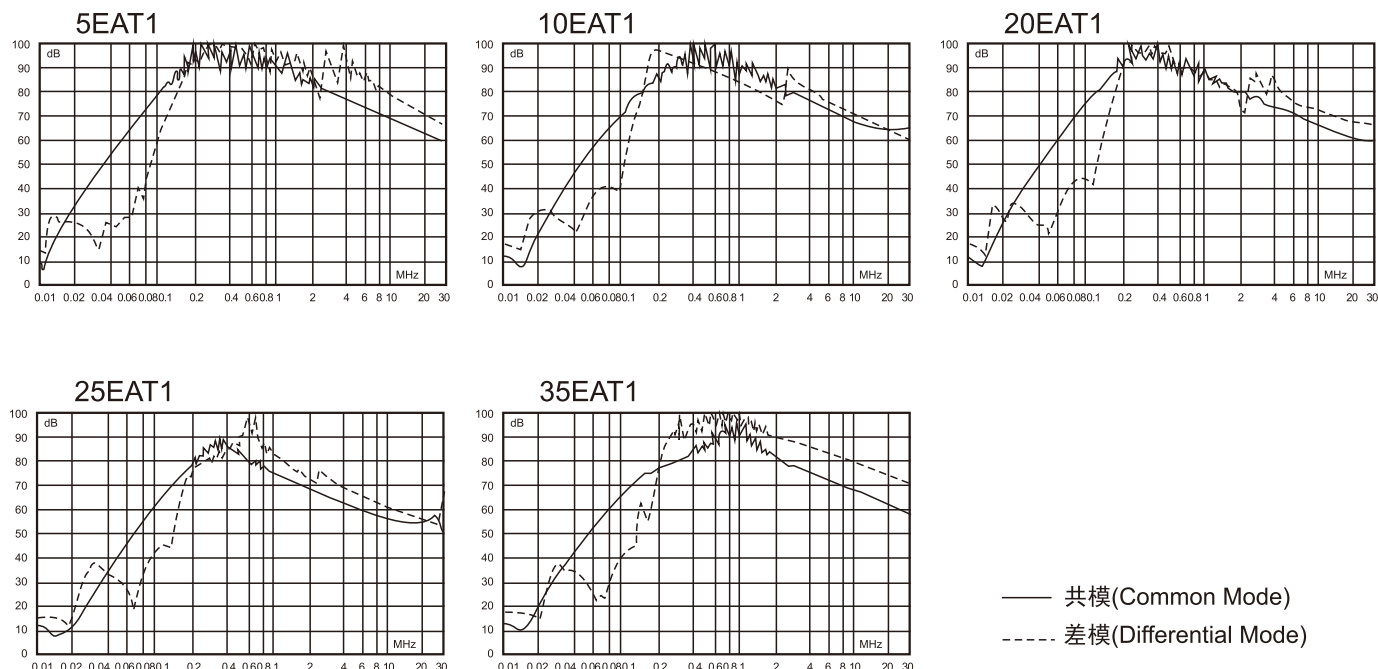


fig.1

型 号Model	A	B	C	D	E	F	G	H	I	J	K	M	N	P	L
DL-5EAT1	184	160	202	60	44	86	18	58	M4	38	-	-	-	M4	6.4×9.4
DL-10EAT1 DL-20EAT1	243	220	261	60	44	100	25	90	M4	45	-	-	-	M4	6.4×9.4
DL-25EAT1 DL-35EAT1	243	220	261	81	96	125	25	90	M6	58	M4	74	49	M6	6.4×9.4

插入损耗 Insertion Loss in dB

(50 Ω 测量系统, IEC/CISPR No. 17 号出版物 Measured in 50 Ω system, as IEC/CISPR No. 17)



特 点 Features

- 极佳的低频段衰减特性，具有良好的共模和差模干扰抑制性能。
Excellent attenuation to low frequency, high performance of common mode and differential mode interference suppression.
- 电流容量大。
Large current.



应用 Applications

- 适用于数据处理系统、电信系统、医用设备和工业控制装置中的高性能电源滤波。
Available for digital systems, telecom systems, medical equipments and industrial installations.

技术参数 Technical Data

额定电压 Rated Voltage	250/440 VAC
工作频率 Operating Frequency	50/60Hz
额定电流 Rated Current	50~1000A
耐压试验(一分钟) Test Voltage(1 min)	1500 VDC (line/line) 2250 VDC (line/ground)
气候类别 Climatic Category	40/085/21

型 号 Model	端子方式 Terminal		额定电流 Rated Current (A)	接地电容量 Ground Capacitance (nF)	放电电阻 Discharge Resistance (K Ω)	电路图 Circuit Diagram fig.	外形尺寸 Dimension fig.
	入 Input	出 Output					
50EAK1			50	94	440	1	1
80EAK1			80	200	440	1	1
100EAK1			100	200	440	1	1
150EAK1			150	200	440	1	1
300EAK3			300	2.4 μ F	660/330	2	2
400EAK3			400	2.4 μ F	660/330	2	2
600EAK3			600	2.4 μ F	660/330	2	2
800EAK3			800	3.05 μ F	660/330	2	3
1000EAK5			1000	3.05 μ F	660/330	2	4

电原理图 Typical Circuit Diagram

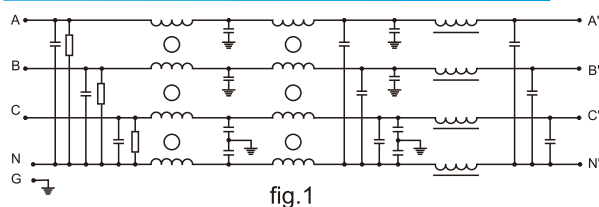


fig.1

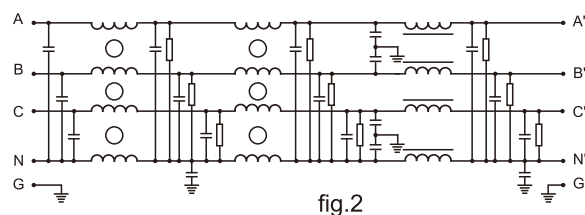


fig.2

外形尺寸 Outline Drawing and Dimensions (mm)

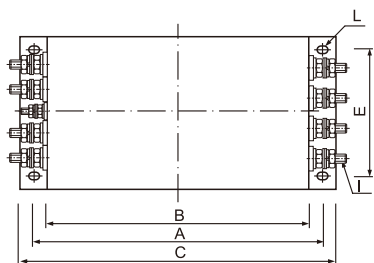


fig.1

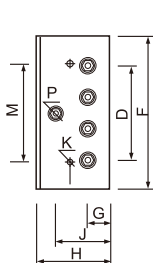


fig.2

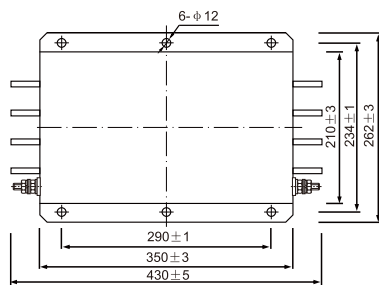


fig.3

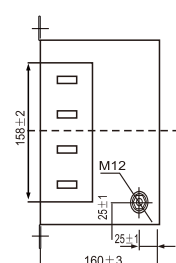
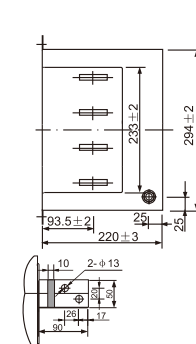
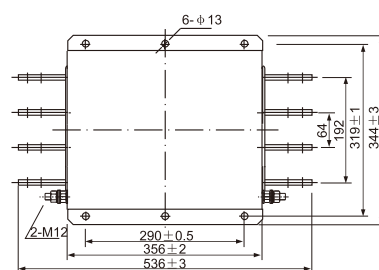
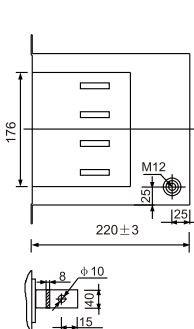
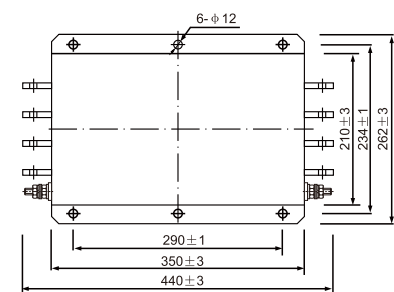


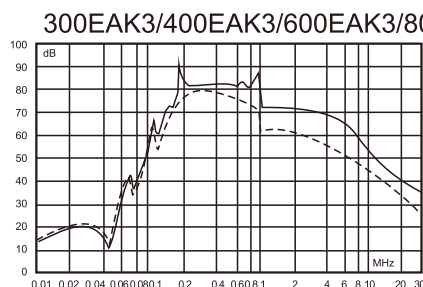
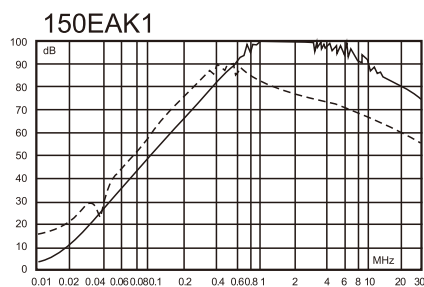
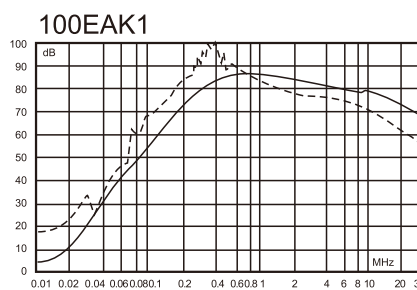
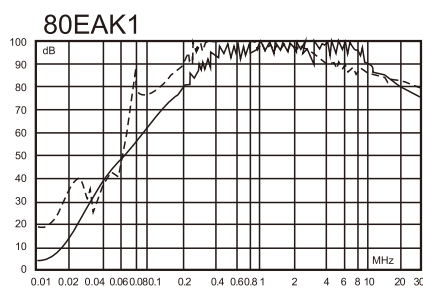
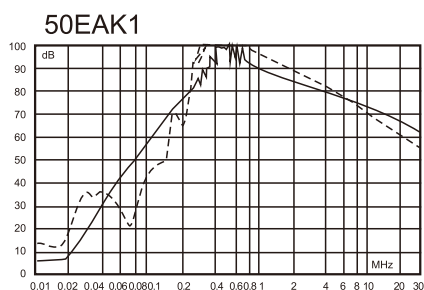
fig.4



型 号Model	A	B	C	D	E	F	G	H	I	J	K	M	N	P	L
DL-50EAK1	243	220	261	81	96	125	25	90	M6	58	M4	74	49	M6	6.4×9.4
DL-80EAK1	354	320	384	99	155	185	30	90	M8	62	M4	86	56	M8	6.4×9.4
DL-100EAK1	354	320	384	99	190	220	35	100	M8	62	M4	86	61	M8	6.4×9.4

插入损耗 Insertion Loss in dB

(50 Ω 测量系统, IEC/CISPR No. 17 号出版物 Measured in 50 Ω system, as IEC/CISPR No. 17)



—— 共模(Common Mode)
 ----- 差模(Differential Mode)

特点 Features

- 常规通用
General purpose
- 体积小，便于安装
Compact unit, Easy to install

应用 Applications

- 抑制沿电源线传输的工业无线电干扰。
Suppress the industrial radio interference along power lines.



技术参数 Technical Data

额定电压 Rated Voltage	250/440 VAC
工作频率 Operating Frequency	50/60Hz
额定电流 Rated Current	5A-200A
耐压试验(一分钟) Test Voltage(1 min)	1500 VDC (line/line) 2250 VDC (line/ground)
气候类别 Climatic Category	25/085/21

型号 Model	端子方式 Terminal		额定电流 Rated Current (A)	接地电容量 Ground Capacitance (nF)	放电电阻 Discharge Resistance (MΩ)	电路图 Circuit Diagram fig.	外形尺寸 Dimension fig.
	入 Input	出 Output					
5EB			5	6.8		1	1
10EB			10	6.8		1	1
5EBX1			5	6.8		1	2
10EBX1			10	6.8		1	2
15EB3			15	6.8		2	3
20EB3			20	6.8		2	3
25EB3			25	6.8		2	3
30EB3			30	6.8		2	3
40EB3			40	6.8		2	4
50EB3			50	6.8		2	4
100EB1			100	50	0.44	3	5
150EB1			150	50	0.44	3	5
200EB11			200	50	0.44	3	6

电原理图 Typical Circuit Diagram

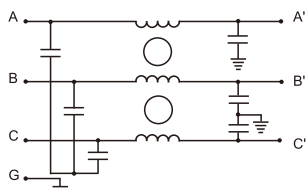


fig.1

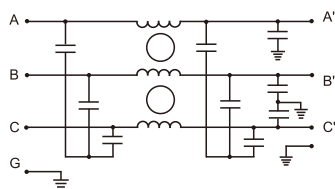


fig.2

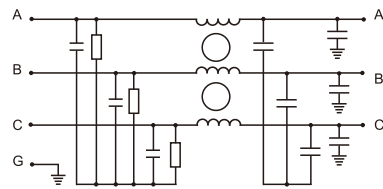


fig.3

外形尺寸 Outline Drawing and Dimensions (mm)

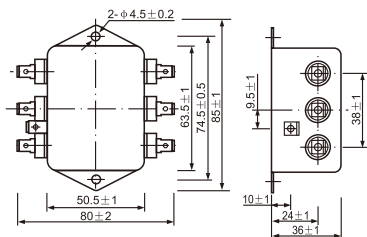


fig.1

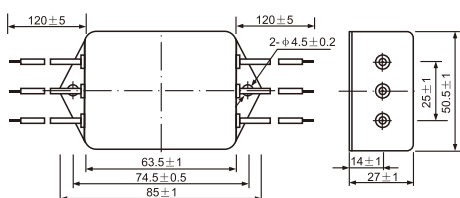


fig.2

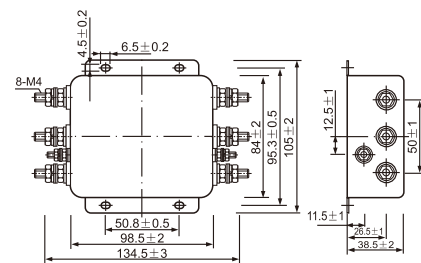


fig.3

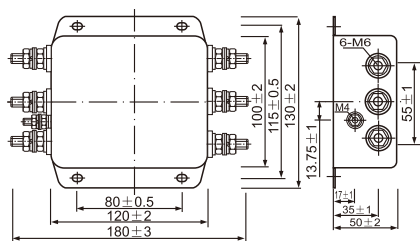


fig.4

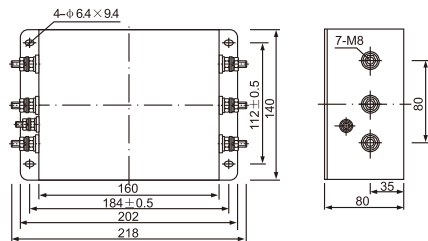


fig.5

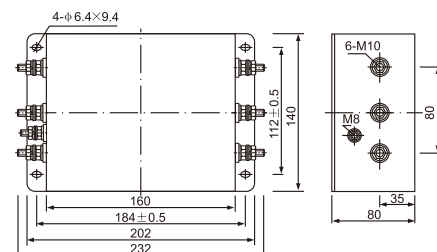
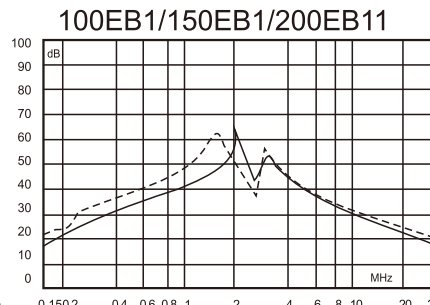
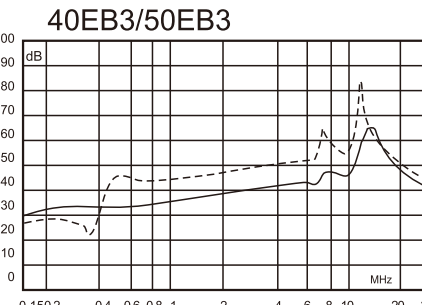
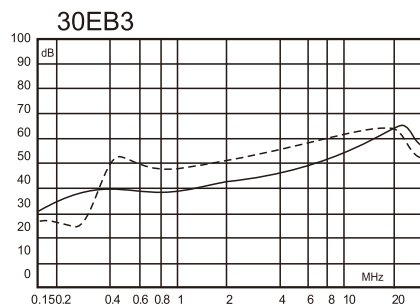
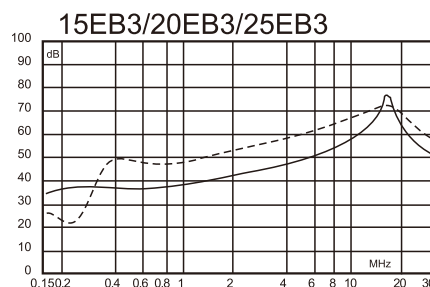
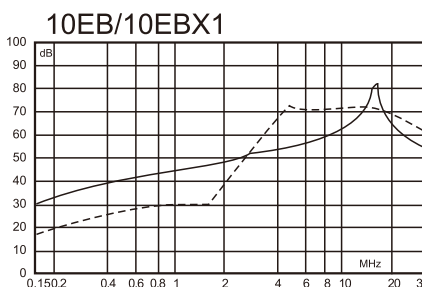
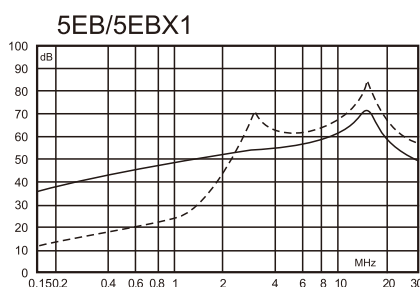


fig.6

插入损耗 Insertion Loss in dB

(50 Ω 测量系统, IEC/CISPR No.17 号出版物 Measured in 50 Ω system, as IEC/CISPR No.17)



—— 共模(Common Mode)
----- 差模(Differential Mode)

特点 Features

- 三相电源滤波器，电流 7 至 100A
3-Phase EMI Power Line Filters 7 to 100A current rating
- 在 150KHz 至 30MHz 频率范围具有优越的衰减性能
Excellent Attenuation from 150KHz to 30MHz
- 方便的接线端子台，紧凑的体积，重量轻
Easy connection Terminal Block , compact and light



应用 Applications

- 适用于强干扰场合的电源滤波，如逆变类设备。
Available for strong interference environments, e.g. inverter equipments .

技术参数 Technical Data

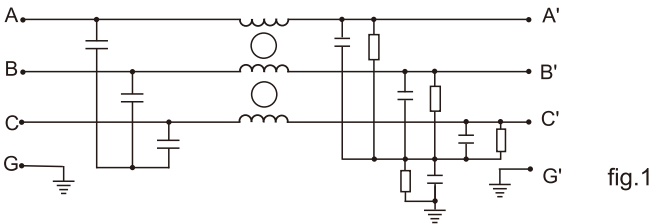
额定电压 Rated Voltage	275/480 VAC
工作频率 Operating Frequency	DC to 60Hz
耐压试验(一分钟) Test Voltage (1 Min)	1500 VDC (line/line) 2250 VDC (line/ground)
气候类别 Climatic Category	40/085/21
防护等级 Protection Category	IP 20

型 号 Model	端子方式 Terminal		额定电流 Rated Current (A)	接地电容量 Ground Capacitance ΣCy (μF)	泄漏电流 Leakage Current* 400VAC/50Hz (mA)	放电电阻 Discharge Resistance (MΩ)	电路图 Circuit Diagram fig.	外形尺寸 Dimension fig.
	入 Input	出 Output						
7EB15/50			7	1.75	33	1.5/0.68	1	2
10EB15/50			10	1.75	33	1.5/0.68	1	2
16EB15/50			16	1.75	33	1.5/0.68	1	2
30EB15/50			30	1.75	33	1.5/0.68	1	2
42EB15/50			42	1.75	33	1.5/0.68	1	2

* 表中漏电流是指正常状态下的最大值，如缺两相，漏电流将是此值的 6~8 倍

* Max. leakage under normal circumstances. Note: if two phase are interrupted, worst case leakage could reach 6~8 times higher levels.

电原理图 Typical Circuit Diagram



外形尺寸 Outline Drawing and Dimensions (mm)

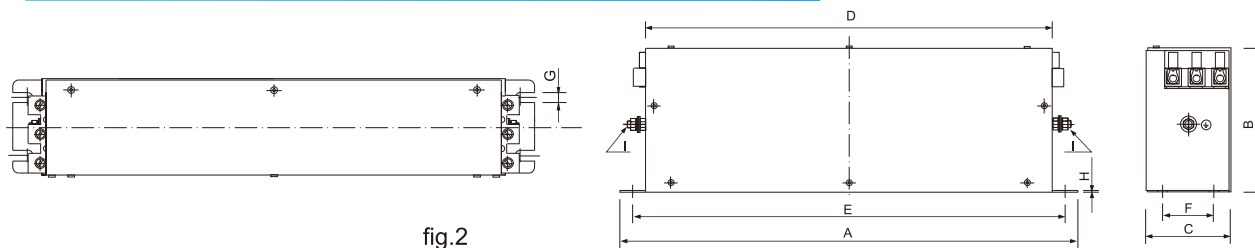
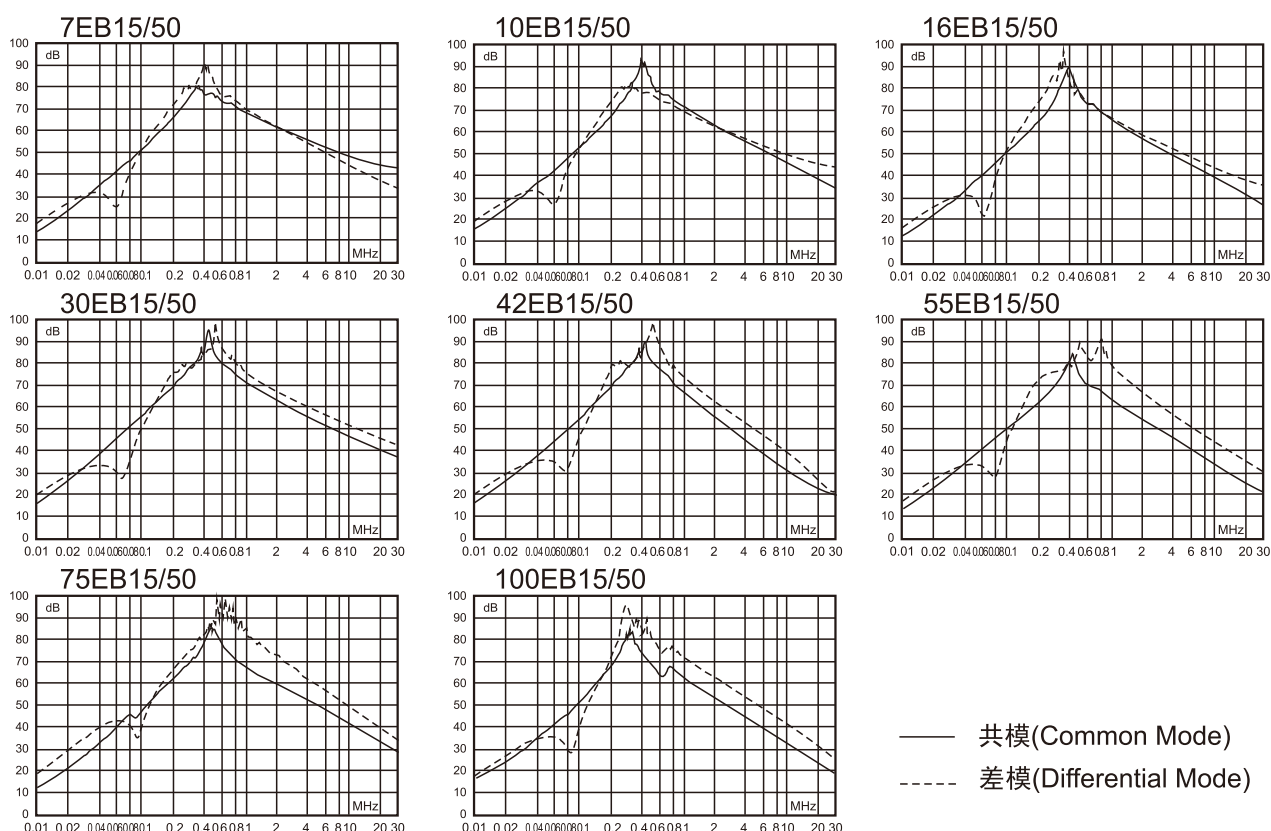


fig.2

型 号Model	A	B	C	D	E	F	G	H	I
DL-7EB15/50	190	70	40	160	180	20	4.5	1	M5
DL-10EB15/50	190	70	40	160	180	20	4.5	1	M5
DL-16EB15/50	250	70	45	220	235	25	5.4	1	M5
DL-30EB15/50	270	85	50	240	255	30	5.4	1	M6
DL-42EB15/50	310	85	50	280	295	30	5.4	1	M6
DL-55EB15/50	250	90	80	220	235	60	5.4	1.5	M6
DL-75EB15/50	270	135	80	240	255	60	6.5	1.5	M6
DL-100EB15/50	270	150	90	240	255	65	6.5	1.5	M10

插入损耗 Insertion Loss in dB

(50Ω测量系统, IEC/CISPR No.17 号出版物 Measured in 50Ω system, as IEC/CISPR No.17)



特点 Features

- 极佳的低频段衰减特性，具有良好的共模和差模干扰抑制性能
Excellent performance for both common mode and differential mode interference at low frequency
- 低泄漏电流
Low leakage current



应用 Applications

- 适用于高性能、强干扰场合的电源滤波，如变频调速系统。
Available for high performance, strong interference environments, such as inverter speed controlled systems.

技术参数 Technical Data

额定电压 Rated Voltage	250/440 VAC
工作频率 Operating Frequency	50/60Hz
额定电流 Rated Current	5A-80A
耐压试验(一分钟) Test Voltage(1 min)	1500 VDC (line/line) 2250 VDC (line/ground)
气候类别 Climatic Category	40/085/21

型号 Model	端子方式 Terminal		额定电流 Rated Current (A)	接地电容量 Ground Capacitance (nF)	放电电阻 Discharge Resistance (KΩ)	电路图 Circuit Diagram fig.	外形尺寸 Dimension fig.
	入 Input	出 Output					
5EBT1			5	47	220	1	1
10EBT1			10	47	220	1	1
20EBT1			20	47	220	1	1
25EBT1			25	47	220	1	1
35EBT1			35	47	220	1	1
50EBT1			50	100	220	1	1
65EBT1			65	100	220	1	1
80EBT1			80	100	220	1	1

电原理图 Typical Circuit Diagram

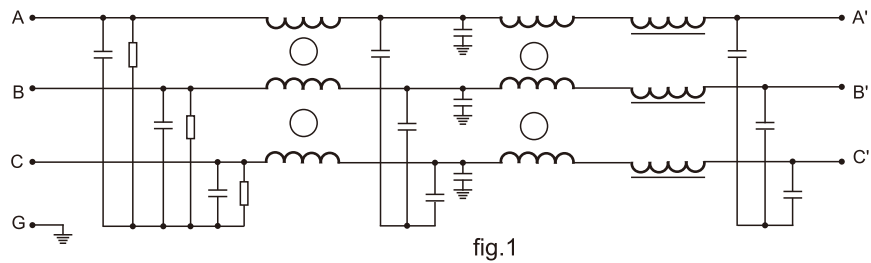


fig.1

外形尺寸 Outline Drawing and Dimensions (mm)

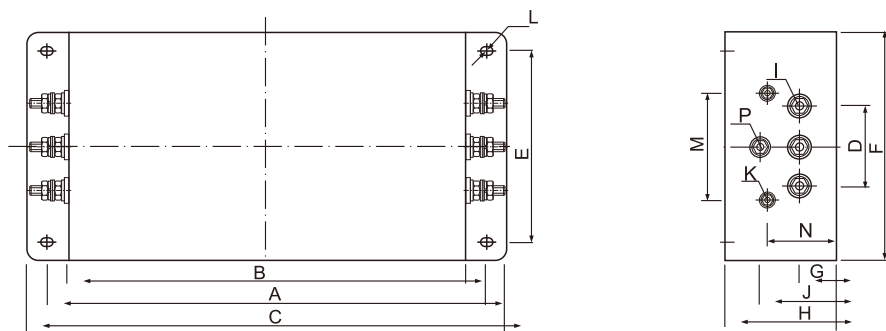
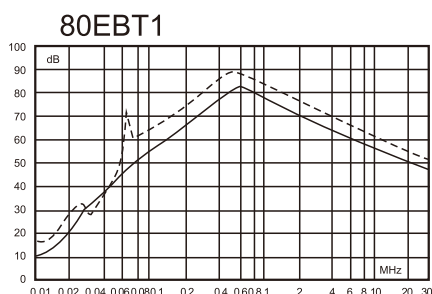
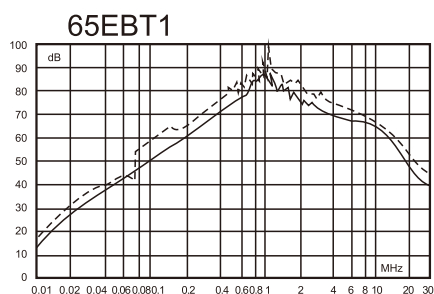
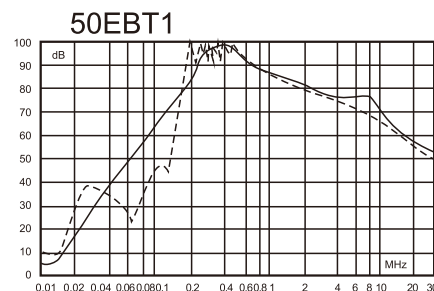
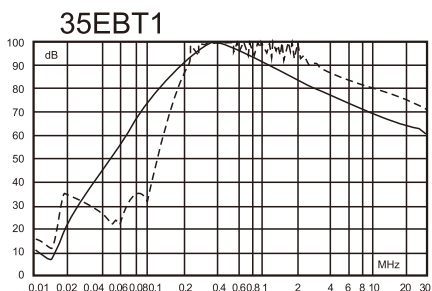
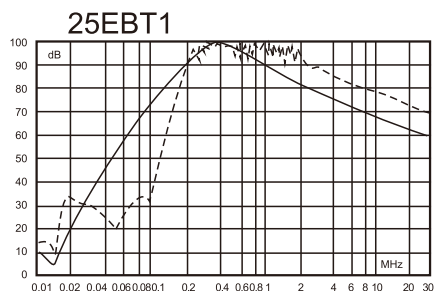
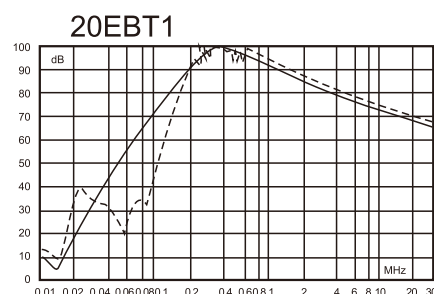
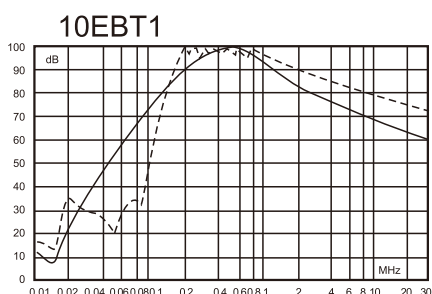
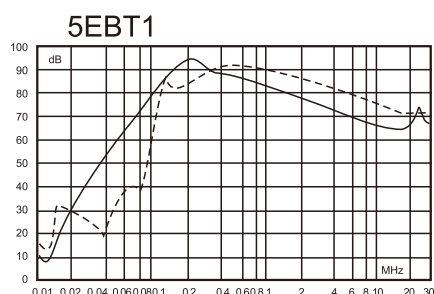


fig.1

型 号Model	A	B	C	D	E	F	G	H	I	J	K	M	N	P	L
DL-5EBT1	184	160	202	42	60	86	18	58	M4	38	-	-	-	M4	6.4×9.4
DL-10EBT1															
DL-20EBT1															
DL-25EBT1															
DL-35EBT1	243	220	261	58	70	100	25	90	M6	58	M4	74	49	M6	6.4X9.4
DL-50EBT1															
DL-65EBT1															
DL-80EBT1	354	320	384	66	155	185	30	90	M8	62	M6	86	56	M8	6.4X9.4

插入损耗 Insertion Loss in dB

(50 Ω 测量系统, IEC/CISPR No.17 号出版物 Measured in 50 Ω system, as IEC/CISPR No.17)



—— 共模(Common Mode)
 - - - - 差模(Differential Mode)

特点 Features

- 极佳的低频段衰减特性，具有良好的共模和差模干扰抑制性能

Excellent performance for both common mode and differential mode interference at low frequency

- 电流容量大

Large current



应用 Applications

- 适用于高性能、强干扰场合的电源滤波，如变频调速系统。

Available for high performance, strong interference environments, such as inverter speed controlled systems.

技术参数 Technical Data

额定电压 Rated Voltage	250/440 VAC
工作频率 Operating Frequency	50/60Hz
额定电流 Rated Current	100A-800A
耐压试验(一分钟) Test Voltage(1 min)	1500 VDC (line/line) 2250 VDC (line/ground)
气候类别 Climatic Category	40/085/21

型号 Model	端子方式 Terminal		额定电流 Rated Current (A)	接地电容量 Ground Capacitance (nF)	放电电阻 Discharge Resistance (K Ω)	电路图 Circuit Diagram fig.	外形尺寸 Dimension fig.
	入 Input	出 Output					
100EBK1			100	100	220	1	1
150EBK1			150	100	220	1	1
200EBK1			200	100	220	1	2
300EBK3			300	2.1 μ F	660	2	3
400EBK3			400	2.1 μ F	660	2	3
600EBK3			600	2.1 μ F	660	2	3
800EBK3			800	2.1 μ F	660	2	3

电原理图 Typical Circuit Diagram

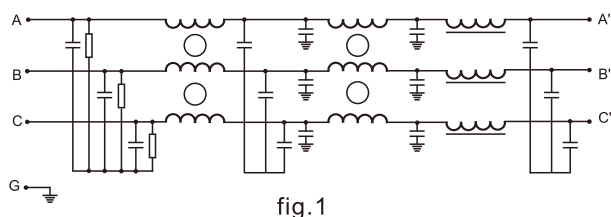


fig.1

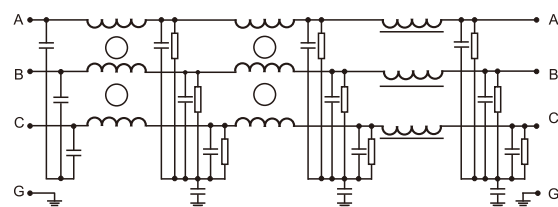
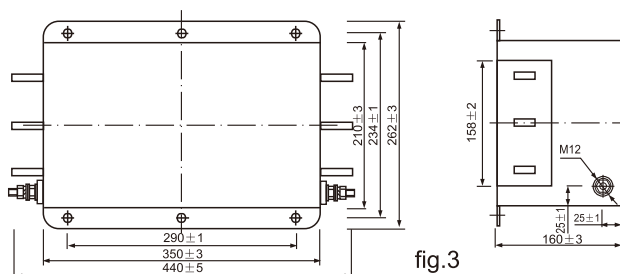
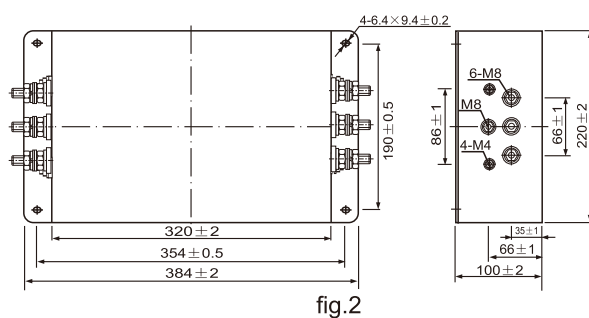
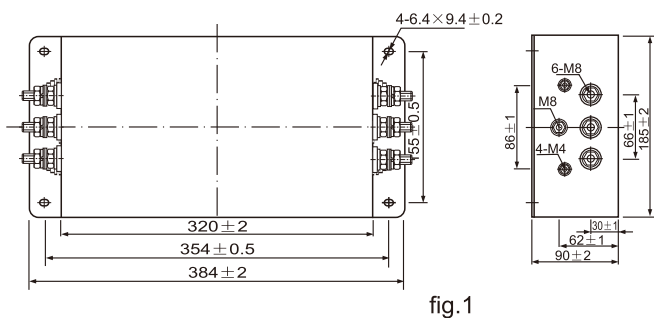


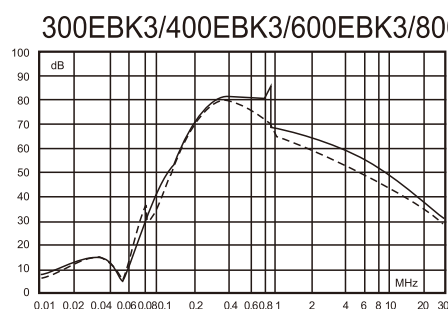
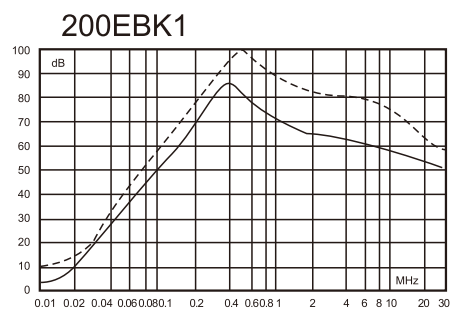
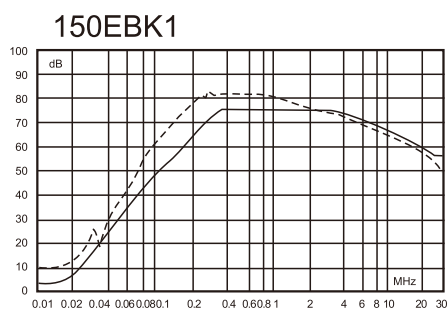
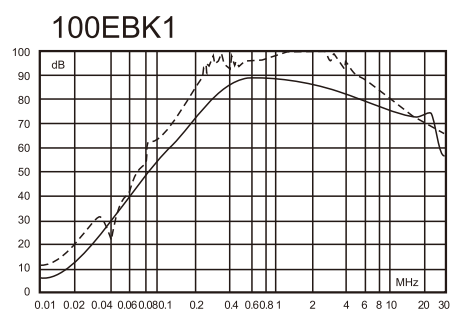
fig.2

外形尺寸 Outline Drawing and Dimensions (mm)



插入损耗 Insertion Loss in dB

(50 Ω 测量系统, IEC/CISPR No.17 号出版物 Measured in 50 Ω system, as IEC/CISPR No.17)



—— 共模(Common Mode)
 ----- 差模(Differential Mode)

EBT1/40、EBK1/40系列

EBT1/40、EBK1/40 Series

特点 Features

- 三相电源滤波器，电流 5 至 150A
3-Phase EMI Power Line Filters 5 to 150A current rating
- 新型端子台，接线简便，并附有安全外罩
Easy connection Terminal Block , With Safety Protection
- 漏电流低，具有高的共模和差模干扰抑制性能
Low leakage Current, Excellent Attenuation For Both
Common and Differential Mode



应用 Applications

- 适用于强干扰设备，如变频调速系统，满足 EMC 要求。
Suited for heavy interference equipments such as inverter speed controlled systems, compliance with
EMC Directives.

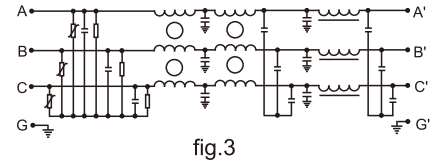
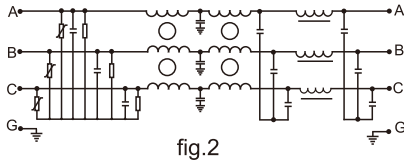
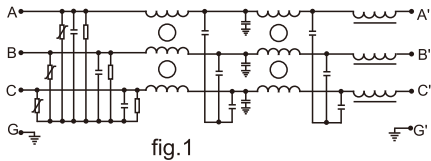
技术参数 Technical Data

额定电压 Rated Voltage	250/440 VAC
工作频率 Operating Frequency	DC to 60Hz
耐压试验(一分钟) Test Voltage (1 min)	1500 VDC (line/line) 2250 VDC (line/ground)
气候类别 Climatic Category	40/085/21

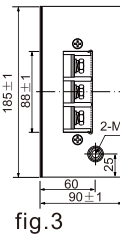
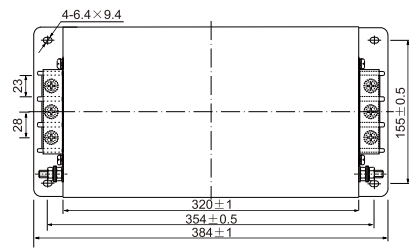
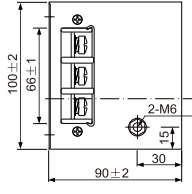
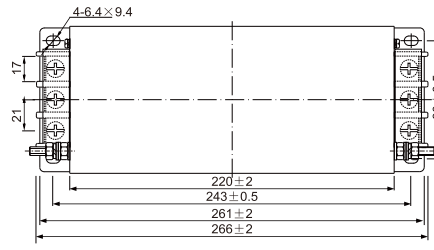
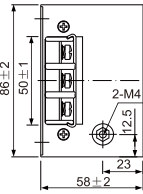
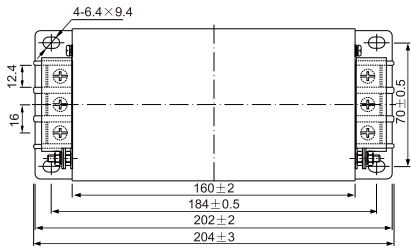
型号 Model	端子方式 Terminal		额定电流 Rated Current (A)	接地电容量 Ground Capacitance Cy (nF)	放电电阻 Discharge Resistance (MΩ)	电路图 Circuit Diagram fig.	外形尺寸 Dimension fig.
	入 Input	出 Output					
5EBT1/40			5A	47	0.22	1	1
10EBT1/40			10A	47	0.22	1	1
15EBT1/40			15A	47	0.22	1	1
20EBT1/40			20A	47	0.22	1	2
25EBT1/40			25A	47	0.22	1	2
35EBT1/40			35A	47	0.22	1	2
50EBT1/40			50A	100	0.22	2	2
65EBT1/40			65A	100	0.22	2	2
80EBT1/40			80A	100	0.22	2	3
100EBK1/40			100A	200	0.22	3	3
150EBK1/40			150A	200	0.22	3	3



电原理图 Typical Circuit Diagram



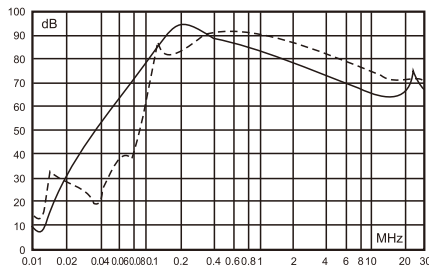
外形尺寸 Outline Drawing and Dimensions (mm)



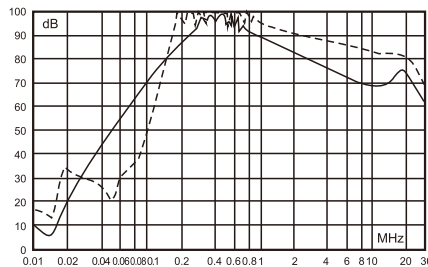
插入损耗 Insertion Loss in dB

(50 Ω 测量系统, IEC/CISPR No.17 号出版物 Measured in 50 Ω system, as IEC/CISPR No.17)

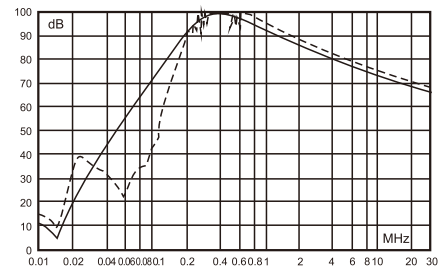
5EBT1/40



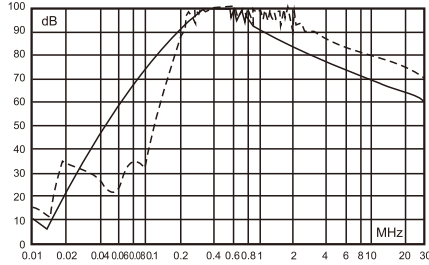
10EBT1/40、15EBT1/40



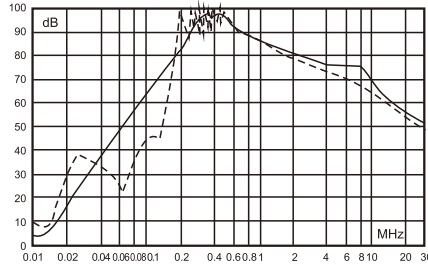
20EBT1/40、25EBT1/40



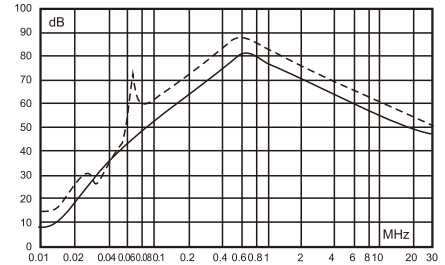
35EBT1/40



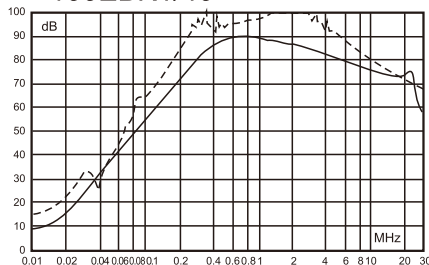
50EBT1/40



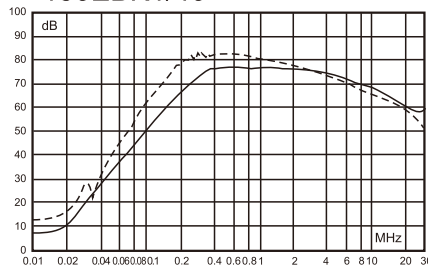
65EBT1/40、80EBT1/40



100EBK1/40



150EBK1/40



—— 共模(Common Mode)
 - - - - 差模(Differential Mode)

特点 Features

- 宽的电流容量范围
Wide current area
- 适中的泄漏电流
Moderate leakage current



应用 Applications

- 适用于工业控制装置中的电源滤波，尤其适用于逆变类设备，如变频调速器的输入滤波器。
The filters are suited for power supplies for industrial installations, particularly for the output filters used on converter equipments, such as inverter speed controlled systems.

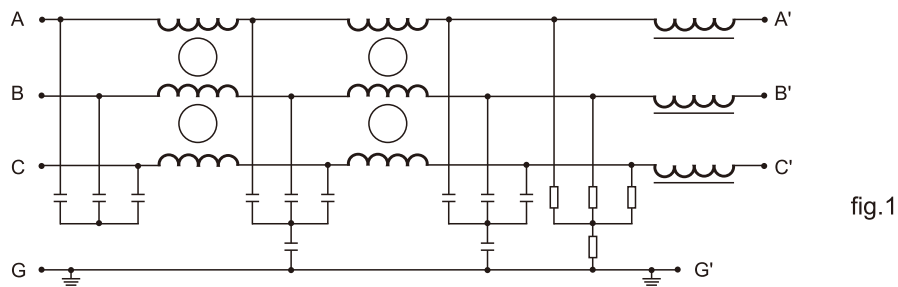
技术参数 Technical Data

额定电压 Rated Voltage	275/480 VAC
工作频率 Operating Frequency	50/60Hz
额定电流 Rated Current	5A-1000A
耐压试验(一分钟) Test Voltage(1 min)	1500 VDC (line/line) 2250 VDC (line/ground)
气候类别 Climatic Category	40/085/21

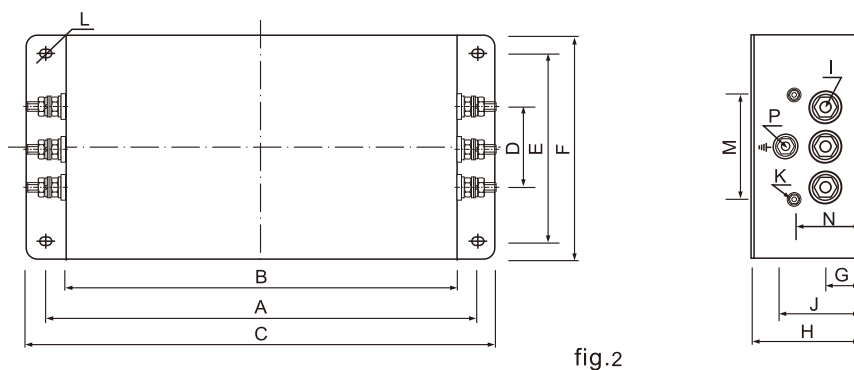
型 号 Model	端子方式 Terminal		额 定 电 流 Rated Current (A)	接地电容量 Ground Capacitance (nF)	放电电阻 Discharge Resistance (MΩ)		电路图 Circuit Diagram fig.	外形尺寸 Dimension fig.
	入 Input	出 Output			R1-3	R0		
5EBK5			5	200	1.5	0.68	1	1
10EBK5			10	200	1.5	0.68	1	1
16EBK5			16	200	1.5	0.68	1	1
25EBK5			25	200	1.5	0.68	1	1
35EBK5			35	200	1.5	0.68	1	1
50EBK5			50	320	1.5	0.68	1	1
65EBK5			65	320	1.5	0.68	1	1
80EBK5			80	320	1.5	0.68	1	1
100EBK5			100	320	1.5	0.68	1	1
130EBK5			130	690	1.5	0.68	1	1
160EBK5			160	690	1.5	0.68	1	1
200EBK5			200	690	1.5	0.68	1	1

型 号 Model	端子方式 Terminal		额 定 电 流 Rated Current (A)	接 地 电 容 量 Ground Capacitance (nF)	放 电 电 阻 Discharge Resistance (M Ω)		电 路 图 Circuit Diagram fig.	外 形 尺 寸 Dimension fig.
	入 Input	出 Output			R1-3	R0		
250EBK5			250	690	1.5	0.68	1	2
320EBK5			320	940	1.5	0.68	1	2
400EBK5			400	940	1.5	0.68	1	2
600EBK5			600	940	1.5	0.68	1	2
1000EBK5			1000	940	1.5	0.68	1	2

电原理图 Typical Circuit Diagram



外形尺寸 Outline Drawing and Dimensions(mm)



型 号Model	A	B	C	D	E	F	G	H	I	J	K	M	N	P	L
DL-5EBK5															
DL-10EBK5	184	160	202	42	60	86	18	58	M4	38	-	-	-	M4	6.4×9.4
DL-16EBK5															
DL-25EBK5															
DL-35EBK5	243	220	265	58	70	102	25	92	M6	58	M4	74	49	M6	6.4×9.4
DL-50EBK5															
DL-65EBK5															
DL-80EBK5															
DL-100EBK5															
DL-130EBK5	354	323	388	66	155	188	30	92	M8	62	M4	86	56	M8	6.4×9.4
DL-160EBK5															
DL-200EBK5															

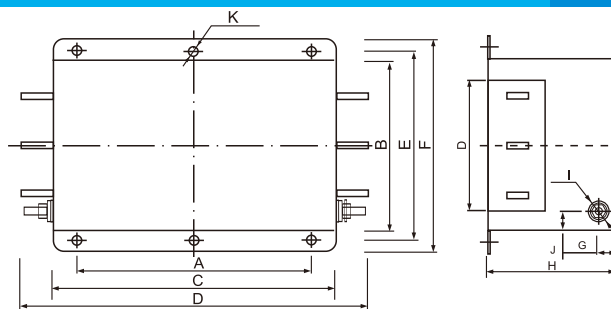
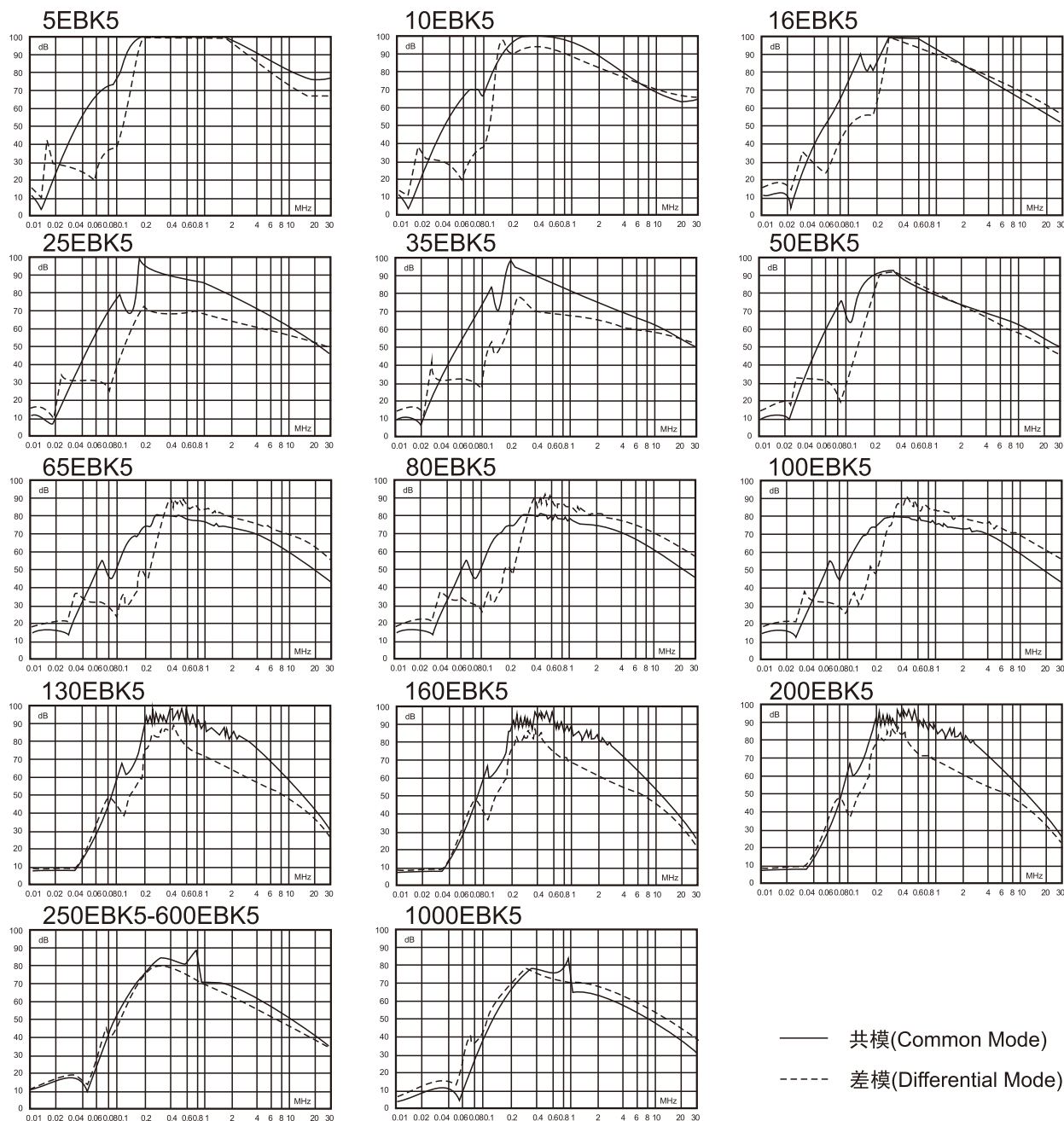


fig.2

型 号 Model	A	B	C	D	E	F	G	H	I	J	K	M	N	P
DL-250EBK5														
DL-320EBK5	290	210	350	440	234	262	25	160	M12	25	Φ12			
DL-400EBK5														
DL-600EBK5														
DL-1000EBK5	290	230	356	536	255	280	25	220	M12	25	Φ13			

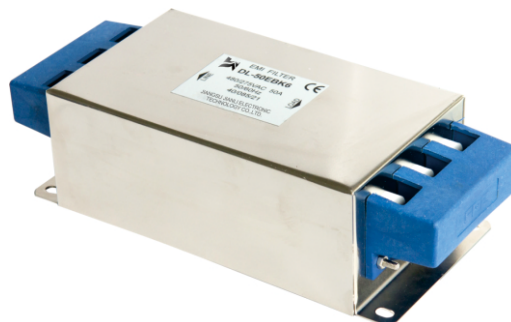
插入损耗 Insertion Loss in dB

(50 Ω 测量系统, IEC/CISPR No.17 号出版物 Measured in 50 Ω system, as IEC/CISPR No. 17)



特点 Features

- 三相三线EMI电源滤波器(5A至200A)。
3-Phase EMI Power Line Filters 5 to 200A current rating.
- 结构紧凑，体积小，性价比高。
Very compact dimensions, High performance to cost made.
- 漏电流小，两级滤波电路，具有良好的共模和差模干扰抑制性能。
Small leakage Current, employ advanced two-stage LCR filter circuitry with High Attenuation for Both Common and Differential Mode.



应用 Applications

- 适用于干扰严重的工业控制系统，如未经滤波处理的变频器、开关电源、伺服驱动器等，满足电磁兼容的要求。
Suited for heavy Interference industrial control systems, Such as unfiltered - frequency inverters and switch-mode power supplies or servodrive etc. , Compliance with EMC Directives.

技术参数 Technical Data

额定电压 Rated Voltage	480/275VAC
工作频率 Operating Frequency	50/60Hz
耐压试验(一分钟) Test Voltage (1 Min)	1500 VDC (line/line) 2250 VDC (line/ground)
气候类别 Climatic Category	40/085/21

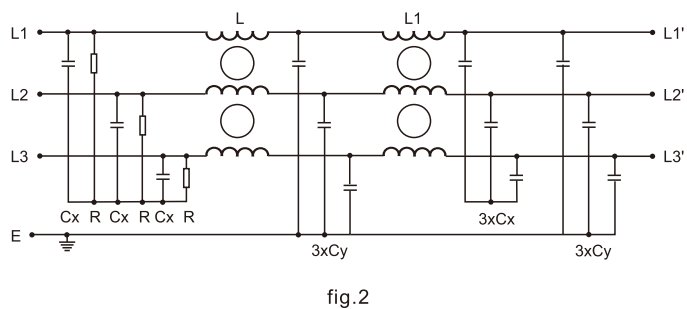
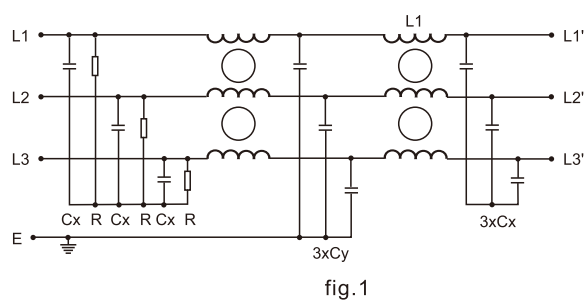
型号 Model	额定电流 Current Ratings at 40°C	接地电容量 Ground Capacitance Cy(nF)	泄漏电流 Leakege Current* (440VAC/50Hz)	电路图 Circuit Diagram	外形尺寸 Case Dimensions
DL-5EBK6	5A	22	<1mA	fig.1	fig.1
DL-10EBK6	10A	22	<1mA	fig.1	fig.1
DL-16EBK6	16A	22	<1mA	fig.1	fig.1
DL-20EBK6	20A	50	<2mA	fig.1	fig.2
DL-25EBK6	25A	50	<2mA	fig.1	fig.2
DL-35EBK6	35A	50	<2mA	fig.1	fig.3
DL-50EBK6	50A	50	<2mA	fig.1	fig.3
DL-65EBK6	65A	50	<2mA	fig.1	fig.3
DL-80EBK6	80A	50	<4mA	fig.2	fig.4
DL-100EBK6	100A	50	<4mA	fig.2	fig.4
DL-130EBK6	130A	50	<4mA	fig.2	fig.4
DL-160EBK6	160A	50	<4mA	fig.2	fig.4
DL-200EBK6	200A	50	<4mA	fig.2	fig.5

*Max. leakage under normal circumstances.为正常状况下的最大泄漏电流

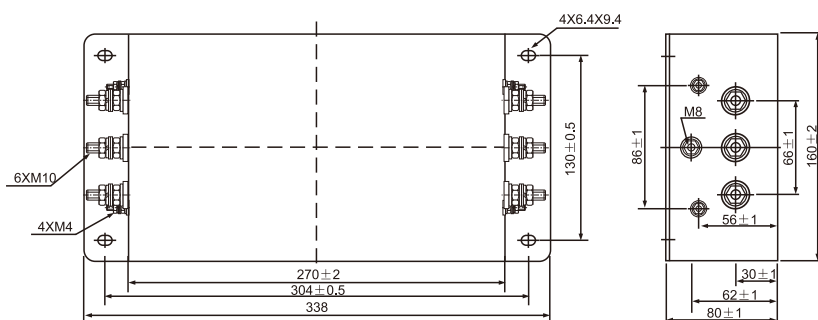
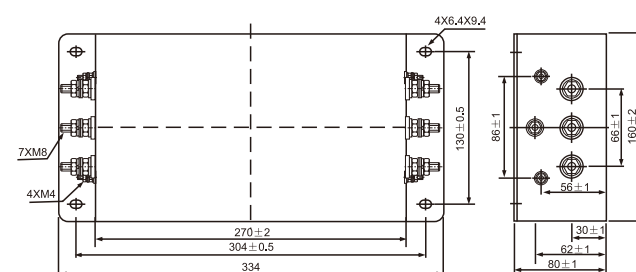
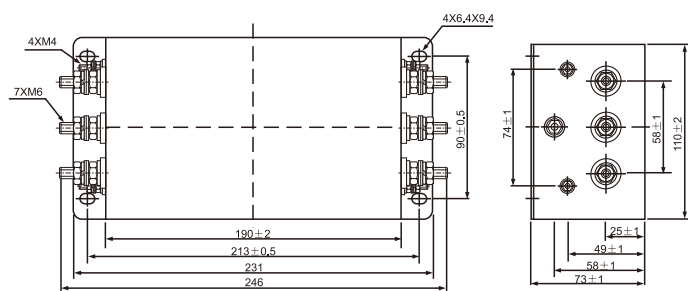
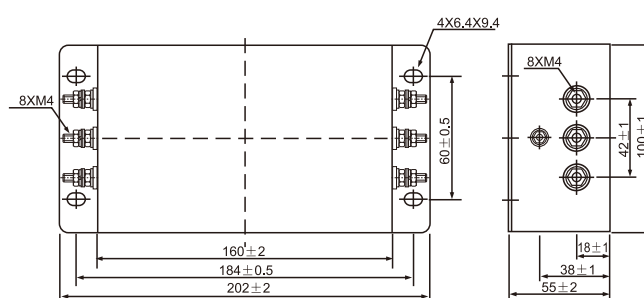
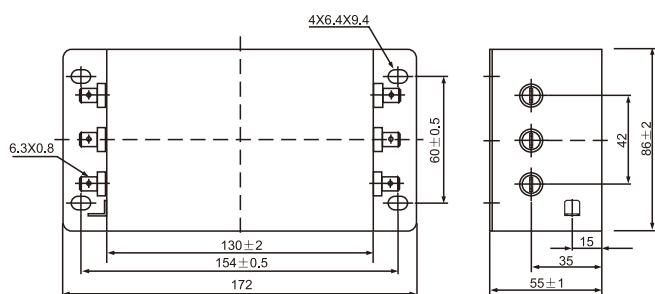
Note: If two phases are interrupted, worst case leakage current could reach 7.7 times higher levels.

注意：如在缺两相这种最坏的状况下，其漏电流将比正常状况高7.7倍左右

电原理图 Typical Circuit Diagram

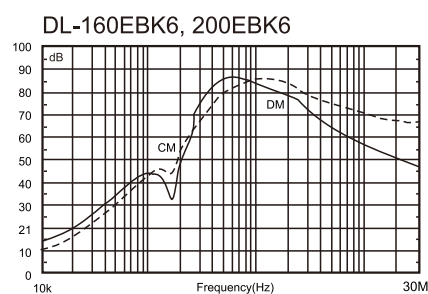
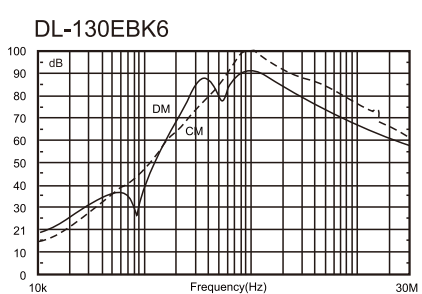
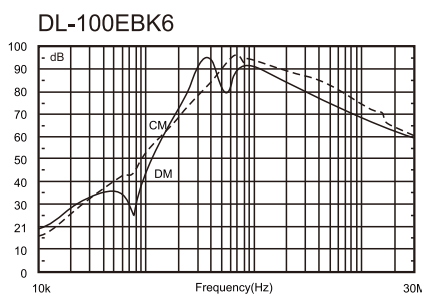
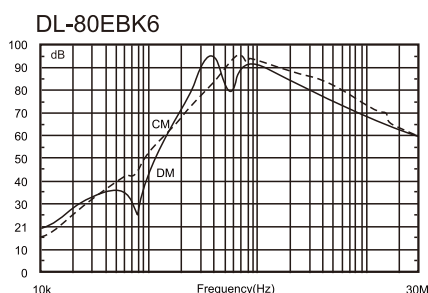
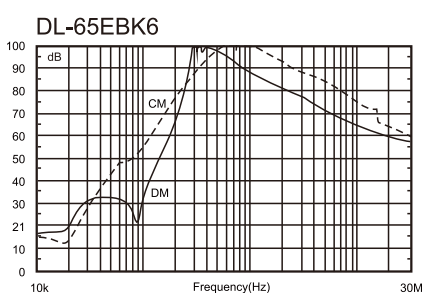
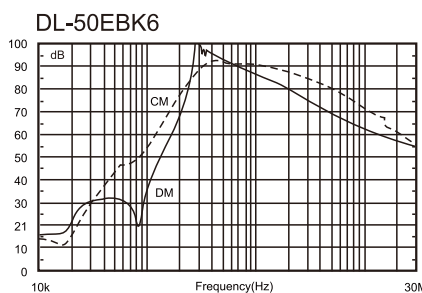
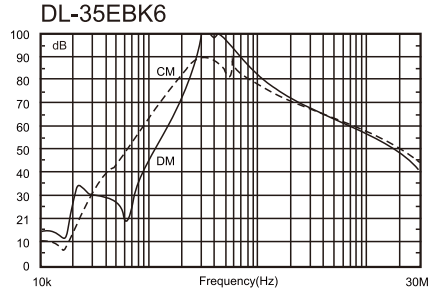
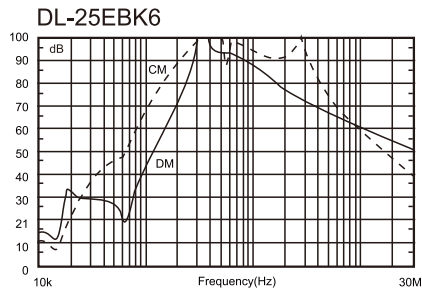
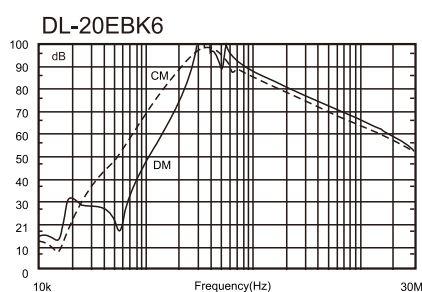
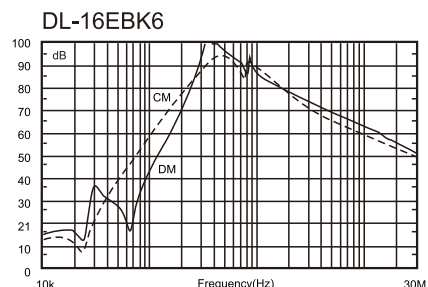
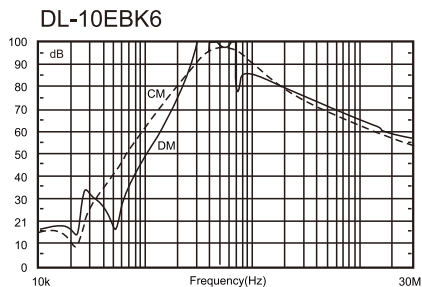
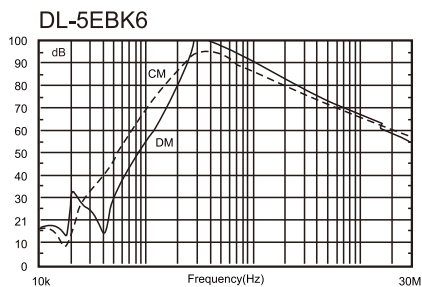


外形尺寸 Outline Drawing and Dimensions (mm)



插入损耗 Insertion Loss in dB

(Measured in 50 Ω system):



----- 共模(Common Mode)
 ———— 差模(Differential Mode)



特点 Features

- 三相三线EMI电源滤波器（250A至1600A）。
3-Phase EMI Power Line Filters 250A to 1600A current rating.
- 结构紧凑，体积小，性价比高。
Compact dimensions, High cost-effective.
- 滤波器汇流排装有透明保护罩对操作者进行保护。
Transparent protective covers for filter with busbars can protect operator.
- 漏电流小，两级滤波电路，具有良好的共模和差模干扰抑制性能。
Small leakage Current, two-stage LCR circuit with High Attenuation for both Common and Differential Mode.



应用 Applications

- 适用于干扰严重的工业控制系统，如未经滤波处理的变频器、伺服驱动器、开关电源、逆变电源等，满足电磁兼容的要求。
Suited for heavy Interference industrial control systems, Such as unfiltered - frequency inverters and switch-mode power supplies or servodrive etc.
- Compliance with EMC Directives.

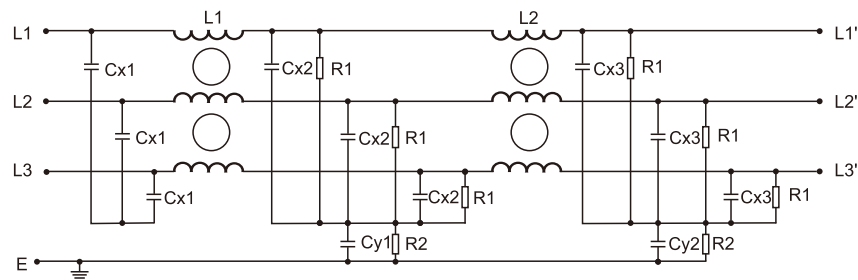
技术参数 Technical Data

额定电压 Rated Voltage	480/275VAC
工作频率 Operating Frequency	50/60Hz
耐压试验(一分钟) Test Voltage (1 Min)	1500 VDC (line/line) 2250 VDC (line/ground)
气候类别 Climatic Category	40/085/21

型号 Model	额定电流 Current Ratings at 40℃	接地电容容 Ground Capacitance Cy(uF)	泄漏电流 Leakage Current* (440VAC/50Hz)	电路图 Circuit Diagram	外形尺寸 Case Dimensions
DL-250EBK6	250A	2.3	<41mA	fig.1	fig.1
DL-300EBK6	300A	2.3	<41mA	fig.1	fig.2
DL-400EBK6	400A	2.3	<41mA	fig.1	fig.2
DL-600EBK6	600A	2.3	<41mA	fig.1	fig.3
DL-800EBK6	800A	2.3	<41mA	fig.1	fig.4
DL-1000EBK6	1000A	2.3	<41mA	fig.1	fig.5
DL-1600EBK6	1600A	2.3	<41mA	fig.1	fig.6

*Max.leakage under normal circumstances.为正常状况下的最大泄漏电流
 Note: if two phases are interrupted, worst case leakage current could be much higher than the value shown.
 注意：如在缺两相这种最坏的状况下，其漏电流将大大高于正常状况产生的数值。

电原理图 Typical Circuit Diagram





外形尺寸 Outline Drawing and Dimensions (mm)

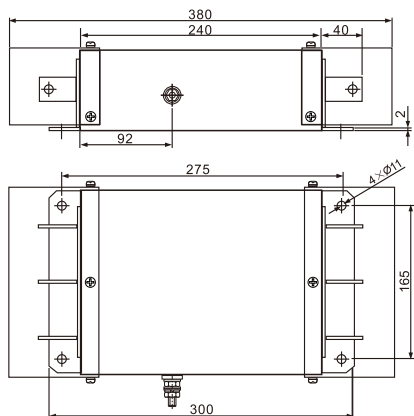


fig.1

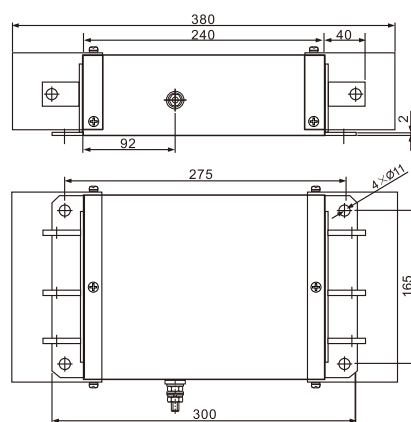
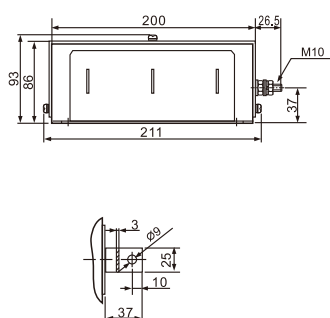


fig.2

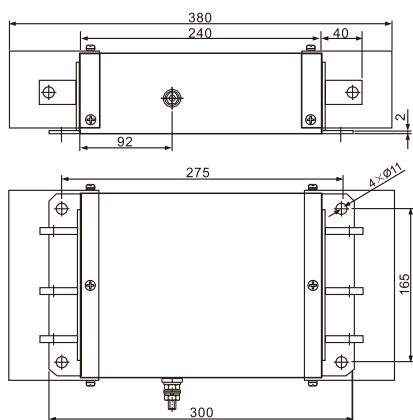
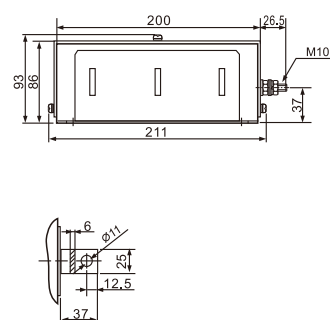


fig.3

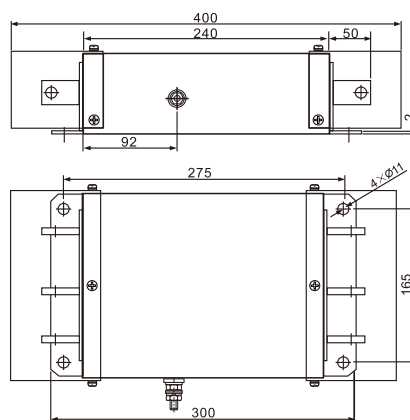
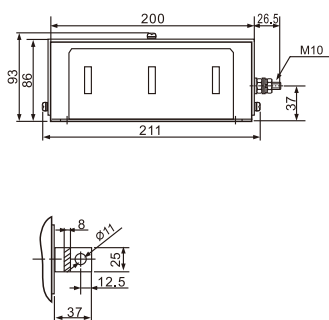
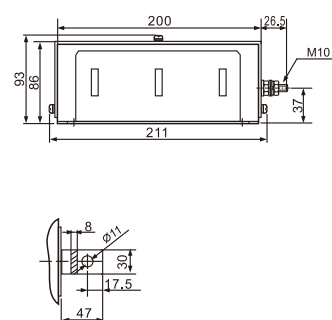


fig.4



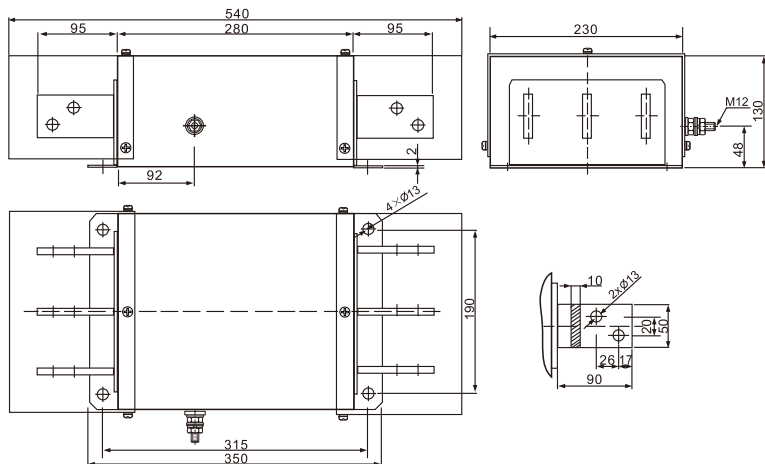


fig.5

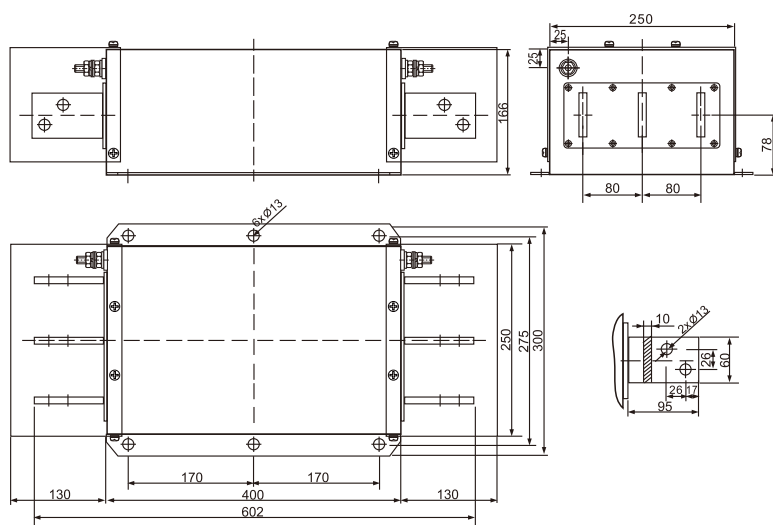
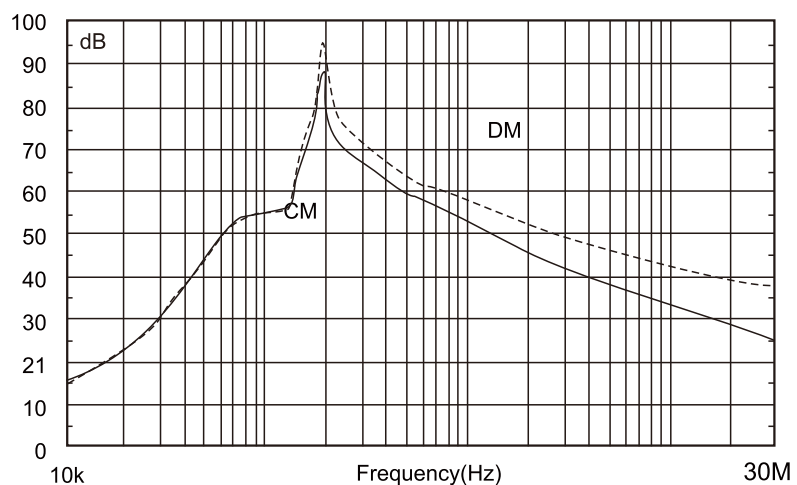


fig.6

插入损耗 Insertion Loss in dB

(Measured in 50 Ω system):

----- 共模(Common Mode)
 ———— 差模(Differential Mode)

EBK6-PV EBK6-HPV 系列

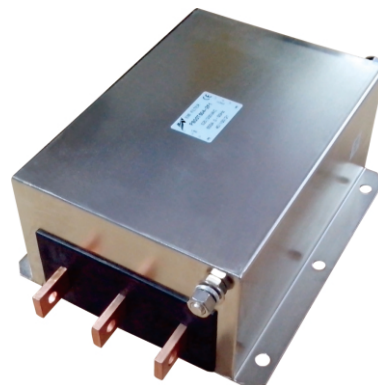
EBK6-PV EBK6-HPV Series

特点 Features

- 三相三线EMI电源滤波器（150A至1600A）
3-Phase EMI Power Line Filters（150A to 1600A）
- 高压设计满足于690VAC电网
HV versions designed for 690VAC IT power networks
- 漏电流小，三级滤波电路，具有良好的共模和差模干扰抑制性能
Small leakage Current, employ advanced three-stage LCR filter circuitry with High Attenuation for Both Common and Differential Mode

应用 Applications

- 适用于逆变器、大功率马达驱动、变频器、采矿设备等。
Suited for inverters、High-power motor drives frequency inverters、Mining equipment.
- 塑料防护罩可选择的进行卓越的安全保护。
Protective plastic covers optionally available for unsurpassed safety.



技术参数 Technical Data

额定电压 Rated Voltage	520/300VAC(PV系列)、690/400VAC(HPV系列)
工作频率 Operating Frequency	50/60Hz
耐压试验 Test Voltage	PV系列: 线至地line to ground: 2700VDC 线至线line to line: 2150VDC HPV系列: 线至地line to ground: 3100VDC 线至线line to line: 3000VDC
气候类别 Climatic Category	40/085/21

型号 Model	额定电流 Current Ratings at 40℃	漏电流Leakage Current* (480VAC/50Hz)	电路图 Circuit Diagram	外形图 Case Dimensions
DL-150EBK6-PV DL-150EBK6-HPV	150A	<6mA	fig.1	fig.1
DL-180EBK6-PV DL-180EBK6-HPV	180A	<6mA	fig.1	fig.1
DL-250EBK6-PV DL-250EBK6-HPV	250A	<6mA	fig.1	fig.2
DL-320EBK6-PV DL-320EBK6-HPV	320A	<6mA	fig.1	fig.3
DL-400EBK6-PV DL-400EBK6-HPV	400A	<6mA	fig.1	fig.3
DL-600EBK6-PV DL-600EBK6-HPV	600A	<6mA	fig.1	fig.4
DL-800EBK6-PV DL-800EBK6-HPV	800A	<6mA	fig.1	fig.5
DL-1000EBK6-PV DL-1000EBK6-HPV	1000A	<6mA	fig.1	fig.6
DL-1600EBK6-PV DL-1600EBK6-HPV	1600A	<6mA	fig.2	fig.7

* Max. leakage under normal circumstances.为正常状况下的最大泄漏电流
Note: if two phases are interrupted, worst case leakage current could reach 7.7 times higher levels.
注意: 如在缺两相这种最坏的状况下, 其漏电流将比正常状况高7.7倍左右

电原理图 Typical Circuit Diagram

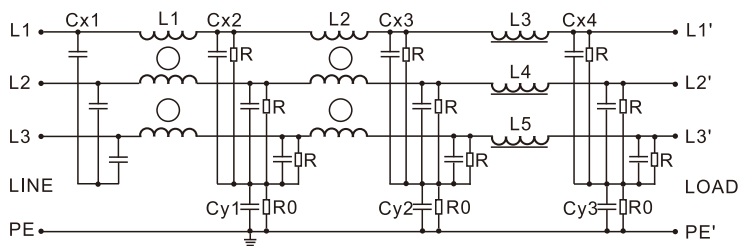


fig.1

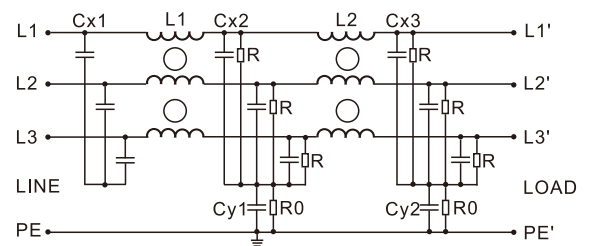


fig.2

Note: HPV versions without R0. 注意: HPV系列无R0

外形尺寸 Outline Drawing and Dimensions (mm)

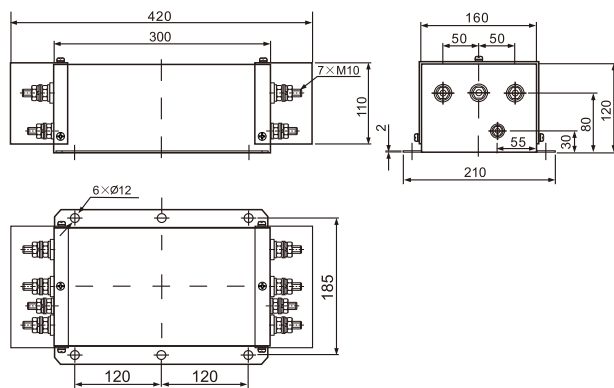


fig.1

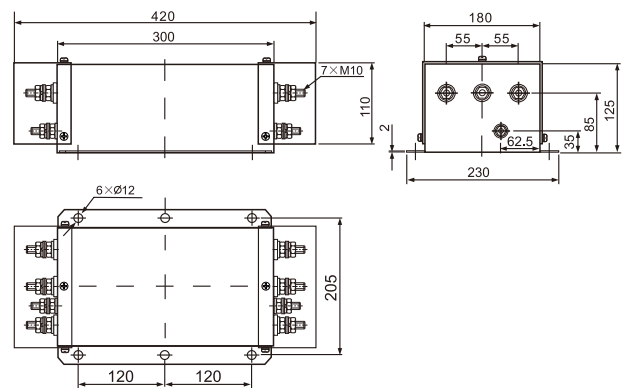


fig.2

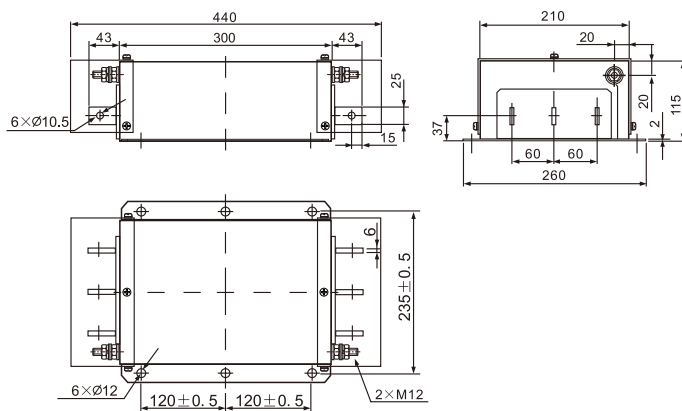


fig.3

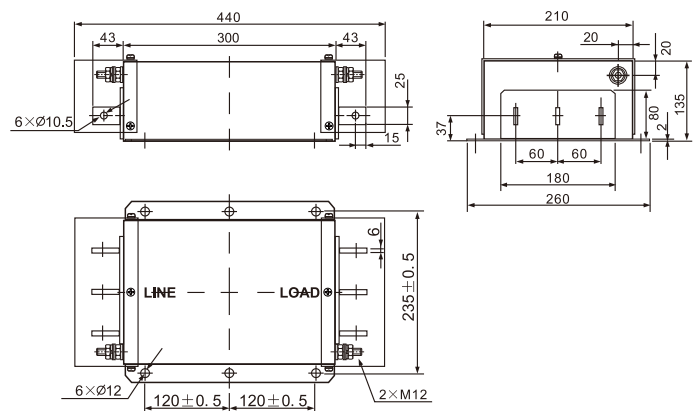


fig.4

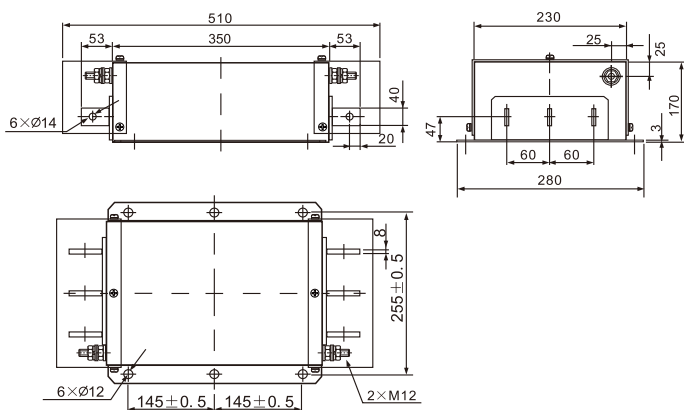


fig.5

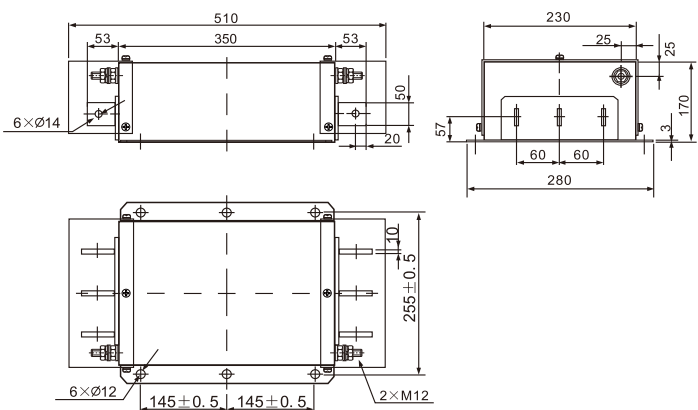


fig.6

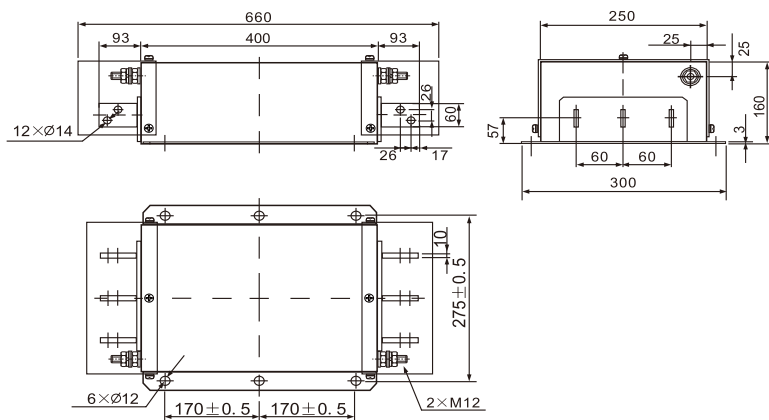
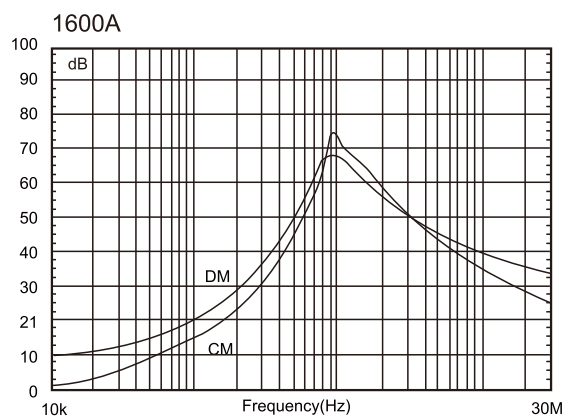
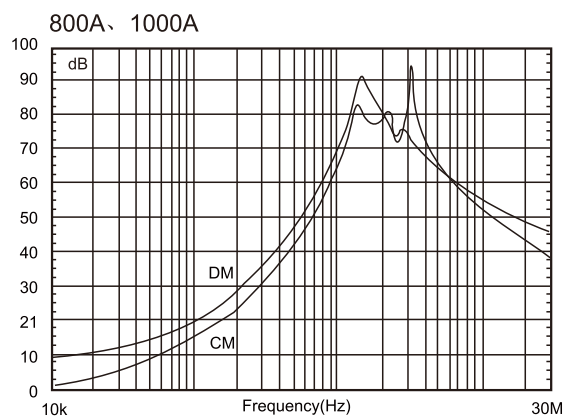
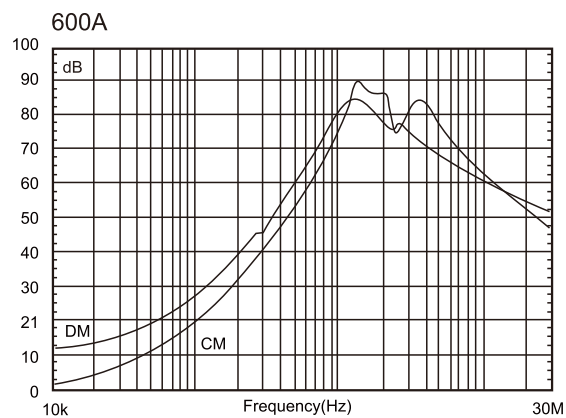
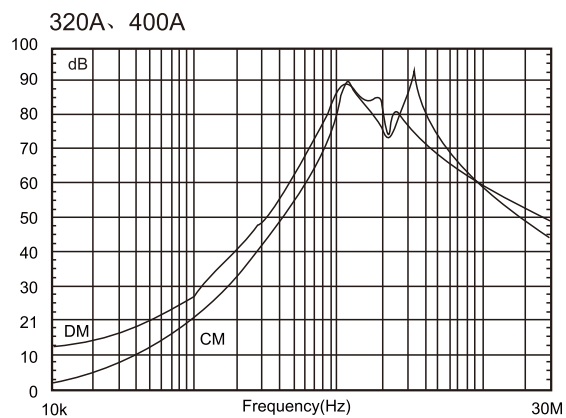
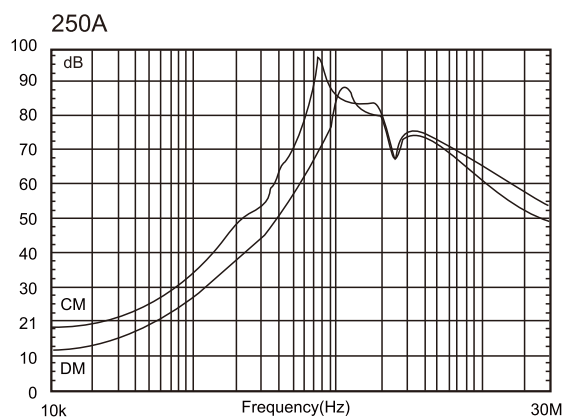
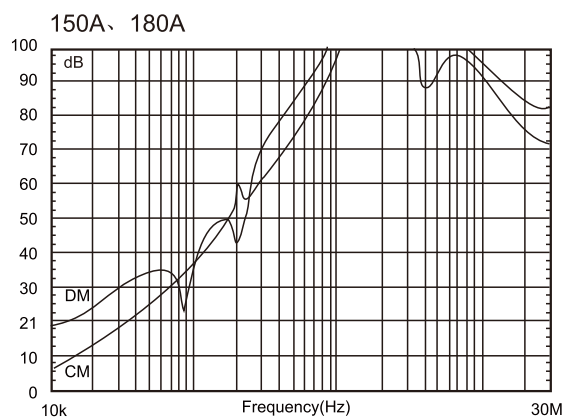


fig.7

插入损耗 Insertion Loss in dB

(Measured in 50 Ω system):

特点 Features

- 三相电源滤波器，电流 5 至 160A。
3-Phase EMI Power Line Filters 5 to 160A current ratings.
- 新型端子台，接线简便，并附有安全外罩。
Typical Terminal Block Easy To Connection, With Safety Protection.
- 漏电流低，具有高的共模和差模干扰抑制性能。
Low leakage Current, High Attenuation For Both Common and Differential Mode.



应用 Applications

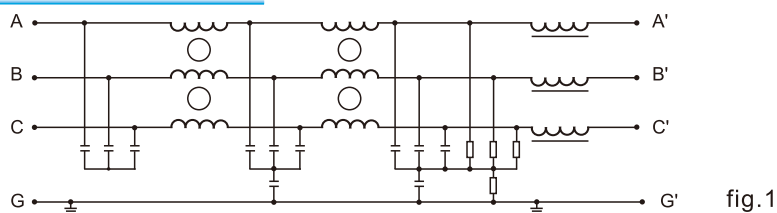
- 适用于强干扰设备，如变频调速系统，良好的性价比。
Suited for heavy interference equipments such as inverter speed controlled systems, high ratio of performance to cost make.

技术参数 Technical Data

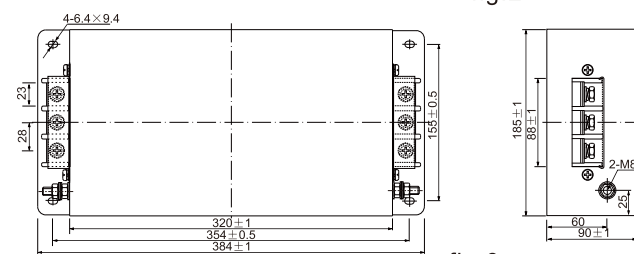
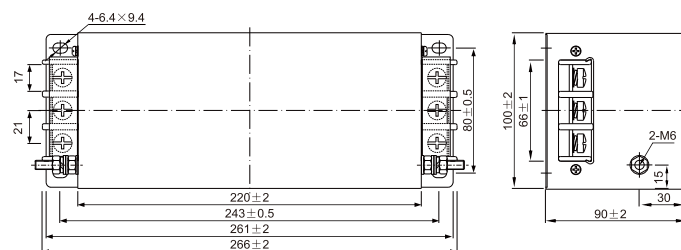
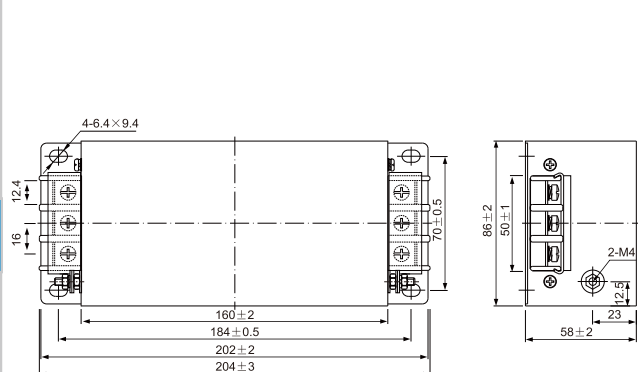
额定电压 Rated Voltage	275/480 VAC
工作频率 Operating Frequency	DC to 60Hz
耐压试验(一分钟) Test Voltage (1 Min)	1500 VDC (line/line) 2250 VDC (line/ground)
气候类别 Climatic Category	40/085/21

型 号 Model	端子方式 Terminal		额 定 电 流 Rated Current (A)	接地电容量 Ground Capacitance (nF)	放电电阻 Discharge Resistance (MΩ)		外形尺寸 Dimension fig.
	入 Input	出 Output			R1-3	R0	
5EBK5/40			5A	200	1.5	0.68	1
10EBK5/40			10A	200	1.5	0.68	1
16EBK5/40			16A	200	1.5	0.68	1
25EBK5/40			25A	200	1.5	0.68	2
35EBK5/40			35A	200	1.5	0.68	2
50EBK5/40			50A	320	1.5	0.68	2
65EBK5/40			65A	320	1.5	0.68	2
80EBK5/40			80A	320	1.5	0.68	3
100EBK5/40			100A	320	1.5	0.68	3
130EBK5/40			130A	690	1.5	0.68	3
160EBK5/40			160A	690	1.5	0.68	3

电原理图 Typical Circuit Diagram

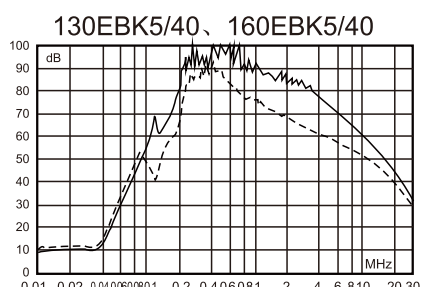
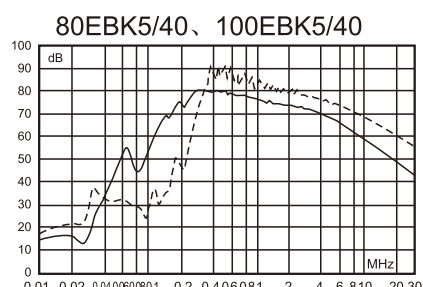
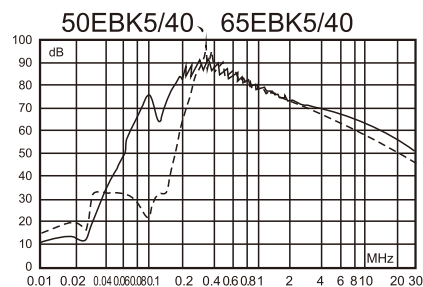
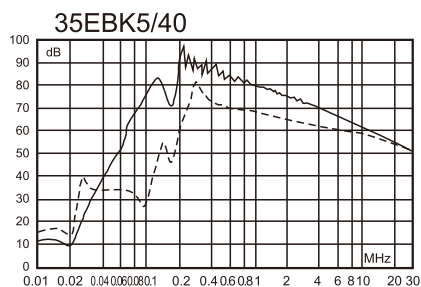
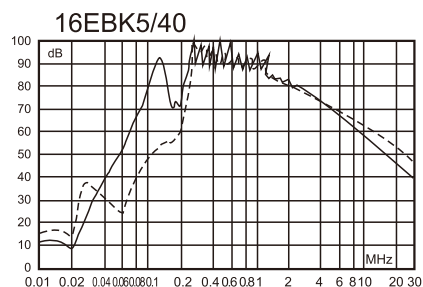
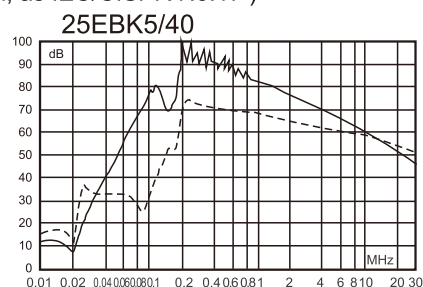
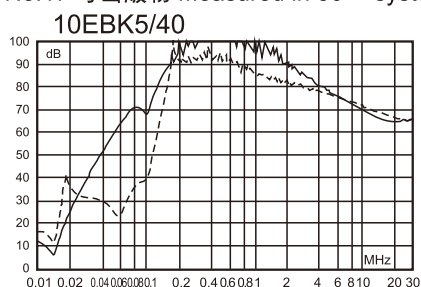
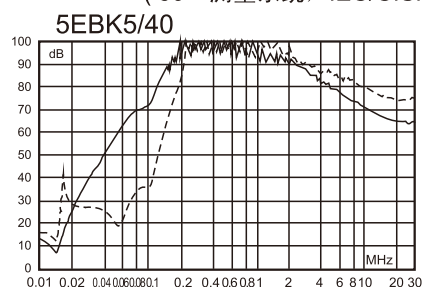


外形尺寸 Outline Drawing and Dimensions (mm)



插入损耗 Insertion Loss in dB

(50 Ω 测量系统, IEC/CISPR No.17 号出版物 Measured in 50 Ω system, as IEC/CISPR No.17)



—— 共模(Common Mode)
 - - - - 差模(Differential Mode)

特点 Features

- dv/dt抑制
dv/dt limitation
- 过电压限制
Over-voltage restriction
- 减少变频器电磁干扰
Reduction of electromagnetic interference levels from
inverters



应用 Applications

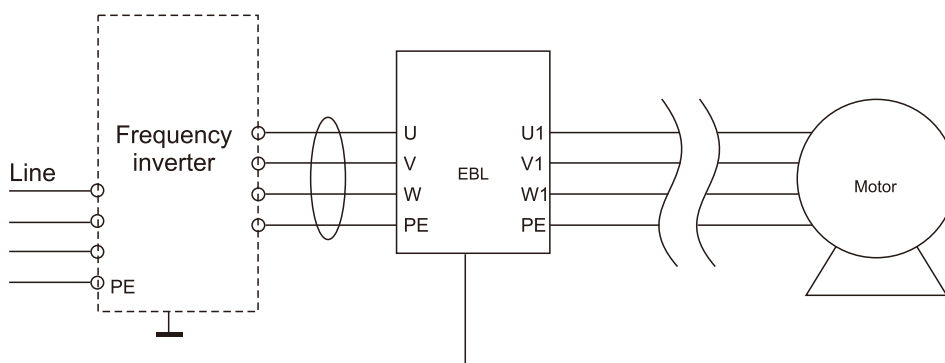
- 适用于变频器、UPS等交直流设备的输出滤波。
Output filter for frequency converter, UPS AC and DC inverter equipments.
- 减小变频器及马达线圈损耗。
Reduce the wear of converter and motor choke .

技术参数 Technical Data

额定电压 Rated Voltage	275/480 VAC
工作频率 Operating Frequency	0-120Hz
开关频率 Switching Frequency	≤60KHz
额定电流 Rated Current	10A-600A
耐压试验(一分钟) Test Voltage(1 min)	1500 VDC (line/line) 2250 VDC (line/ground)
气候类别 Climatic Category	40/085/21

型号 Model	端子方式 Terminal		额定电流 Rated Current (A)	接地电容量 Ground Capacitance (nF)	放电电阻 Discharge Resistance (MΩ)	电路图 Circuit Diagram fig.	外形尺寸 Dimension fig.
	入 Input	出 Output					
5EBL1/5EBL5			5				1
10EBL1/10EBL5			10				1
15EBL1/16EBL5			15/16				1
20EBL1			20				1
25EBL1/25EBL5			25				1/2
35EBL1/35EBL5			35				1/2
50EBL1/50EBL5			50				2
65EBL1/65EBL5			65				2
80EBL1/80EBL5			80				3
100EBL1/100EBL5			100				3
150EBL1/160EBL5			150 /160				3
200EBL1/200EBL5			200				5/3
300EBL3			300				4
400EBL3			400				4
600EBL3			600				4

接线图 Connection Diagram



外形尺寸 Outline Drawing and Dimensions (mm)

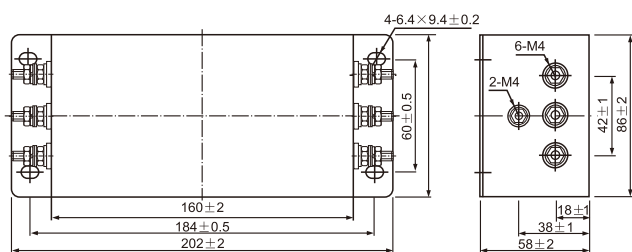


fig.1

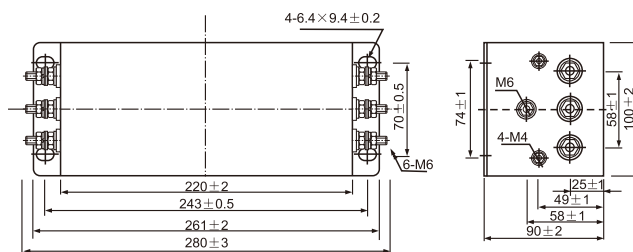


fig.2

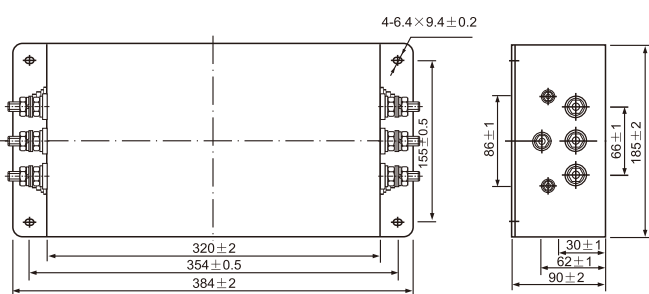


fig.3

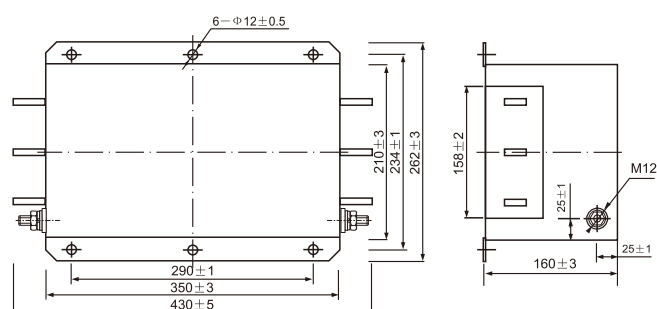


fig.4

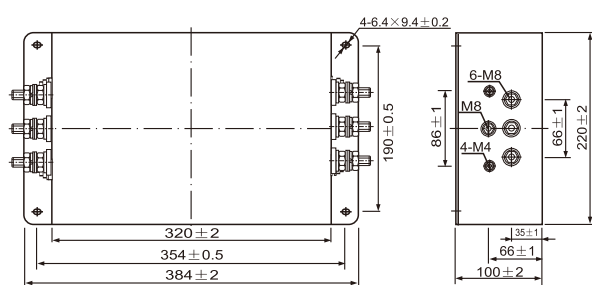


fig.5

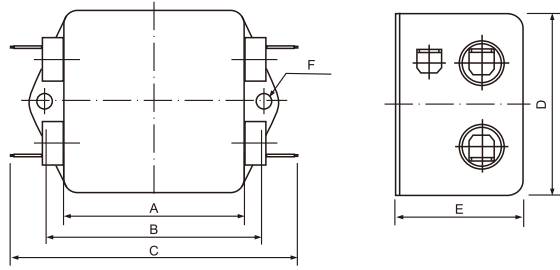


fig.A...

图号	A	B	C	D	E	F
A1	44	55	74	30	20.5	3.8×5.2
A2	52	63	82	52	37	Φ4.5
A3	63.5	74.5	93.5	50.5	27.5	Φ4.5
A4	63.5	74.5	93.5	50.5	36	Φ4.5
A5	63.5	74.5	93.5	50.5	46	Φ4.5
A6	73	87	103	57	45	4.5×6.5

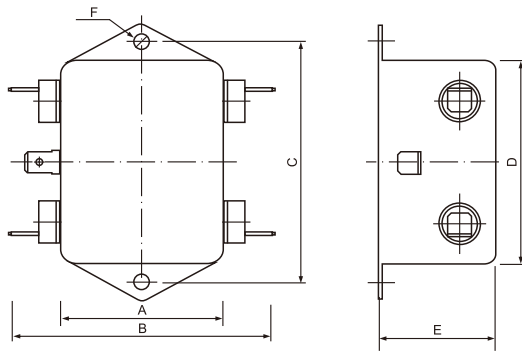


fig.B...

图号	A	B	C	D	E	F
B1	32	62	54	46	22	Φ3.8
B2	50.5	80.5	74.5	63.5	36	Φ4.5

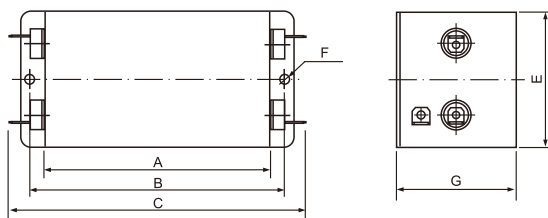


fig.C...

图号	A	B	C	D	E	F
C1	95	107	125	57	50	Φ4.5
C2	120	132	150	57	50	Φ4.5

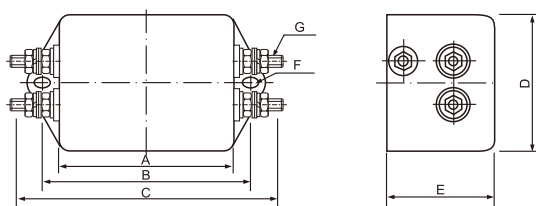


fig.D...

图号	A	B	C	D	E	F	G
D1	63.5	74.5	99.5	50.5	36	Φ4.5	M4
D2	73	87	109	57	45	4.5×6.5	M4
D3	90	105	126	80	45	4.5×6.5	M4
D4	94	103	136	57.5	45.5	4.5×6.0	M5

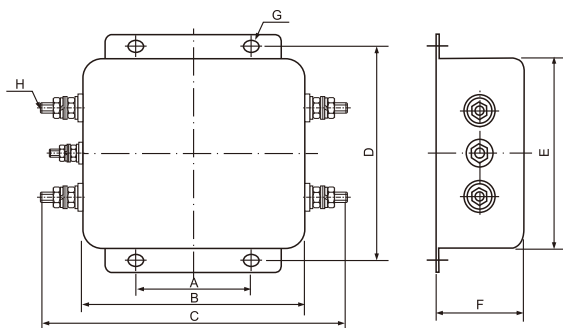


fig.E...

图号	A	B	C	D	E	F	G	H
E1	50.8	98.5	138	95.3	84	38.5	4.5×6.5	M4
E2	50.8	98.5	160	95.3	84	38.5	4.5×6.5	M6
E3	50	96	156	95	80	42	4.5×6.5	M8
E4	80	120	180	115	100	50	4.5×6.5	M6
E5	80	120	180	115	100	50	4.5×6.5	M8

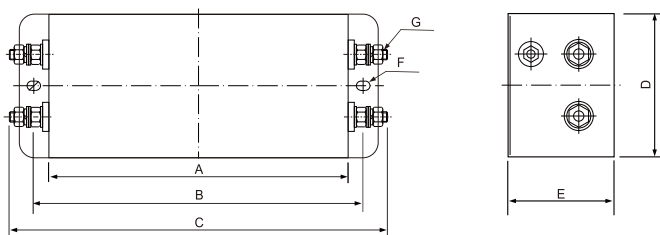


fig. F...

图号	A	B	C	D	E	F	G
F1	85	97	123	67	50	Φ4.5	M4
F2	135	142.5	196	51	38	Φ4.5	M6
F3	144	158.5	188	69	51	4.5×6.5	M5
F4	144	158.5	188	69	51	4.5×6.5	M5
F5	144	158.5	210	69	51	4.2×6.0	M6

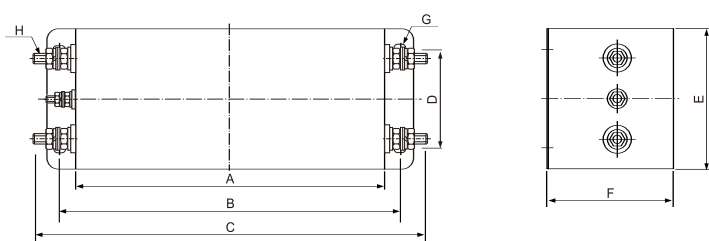


fig. G...

图号	A	B	C	D	E	F	G	H
G1	100	115	162	60	70	60	4.5×6.5	M6
G2	130	144	192	58	70	60	4.5×7.0	M6
G3	160	184	202	60	86	58	6.4×9.4	M4
G4	160	184	235	112	140	80	6.4×9.4	M10
G5	220	243	282	70	100	90	6.4×9.4	M6
G6	220	243	282	96	125	90	6.4×9.4	M8
G7	160	184	235	112	140	80	6.4×9.4	M8

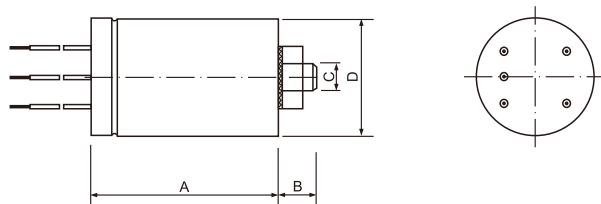


fig. I...

图号	A	B	C	D
I1	54	11	M8	Φ34
I2	80	12	M8	Φ50
I3	73	10	M8	Φ42
I4	58	12	M8	Φ38

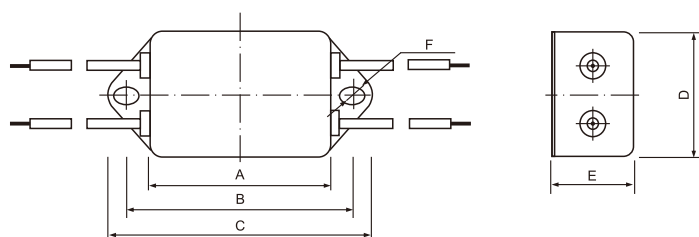


fig. Ax...

图号	A	B	C	D	E	F
AX1	32	42	48	24	20	3.5×4.5
AX2	44	55	64	30	20	3.8×5.2
AX3	46	54	62	32	22	3.8×5.2
AX4	63.5	74.5	85	50.5	36	Φ4.5

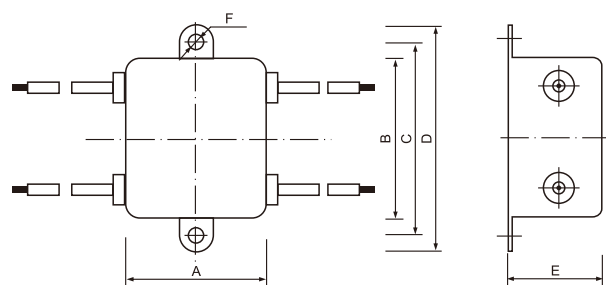


fig. Bx...

图号	A	B	C	D	E	F
BX1	44	30	39	49	20	3.5×5.5
BX2	32	46	54	62	22	Φ3.8
BX3	44	50	60	70.5	28.5	Φ4.8

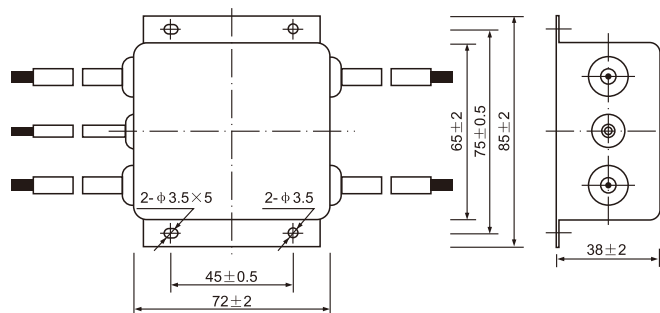


fig. Ex1...

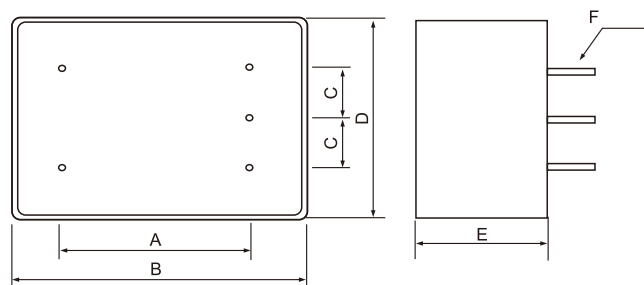


fig. H...

图号	A	B	C	D	E	F
H1	16	25	8	25	15	5×Φ1
H2	16	25	8	25	20	5×Φ1
H3	30	44	7.5	30	20	5×Φ1
H4	35.5	49	11.5	35	27	5×Φ1
H5	27	64	12.5	51	36	5×Φ2
H6	32	44	9.5	30	20	5×Φ1
H7	19.8	25.5	9.9	25.5	10.5	5×Φ1
H8	32	45	9.5	28	14	5×Φ1
H9	20	37	10	37	20	5×Φ1
H10	60	73	20	56	28	5×Φ1.5
H11	60	80	20	56	32	5×Φ1.5
H12	52	17.5	17.5	59	28	5×Φ2.0
H13	52	17.5	17.5	64	28	5×Φ2.0

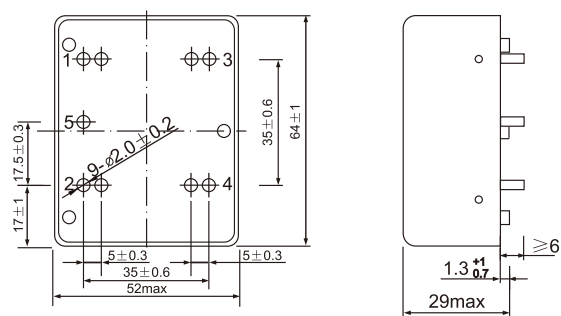


fig. H14...

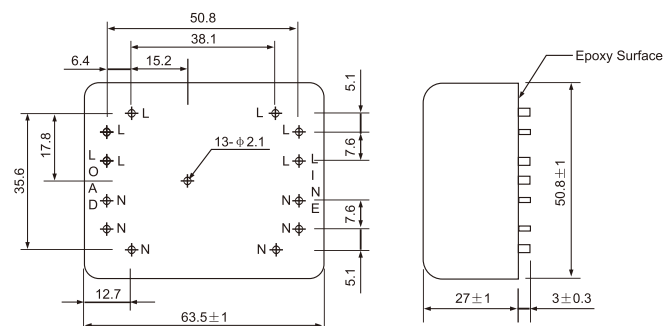


fig. H15...

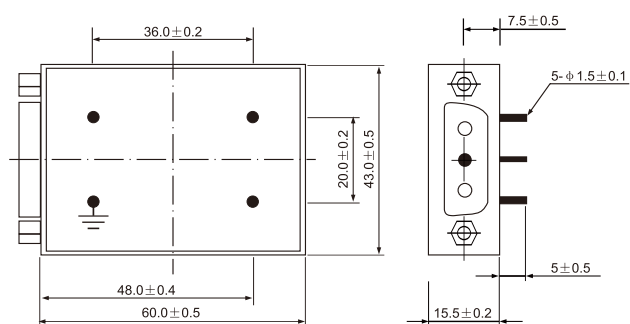


fig. H16...

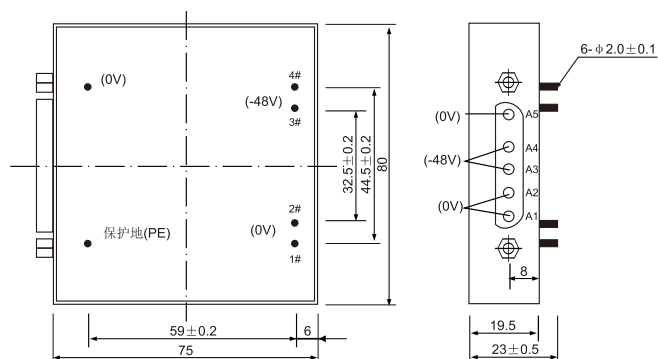


fig. H17...

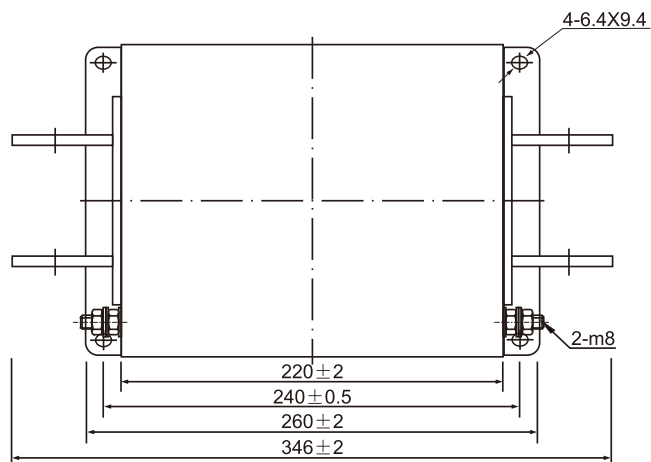


fig. J1...

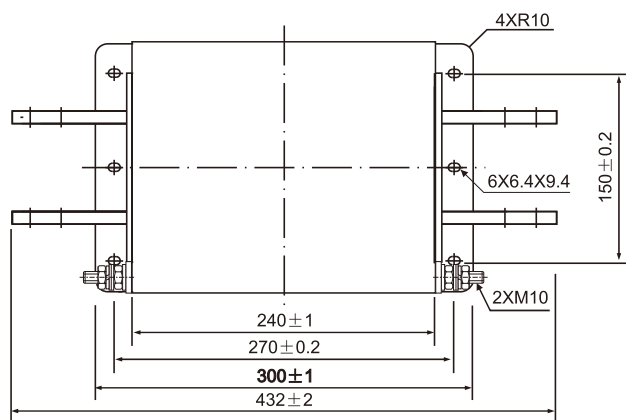
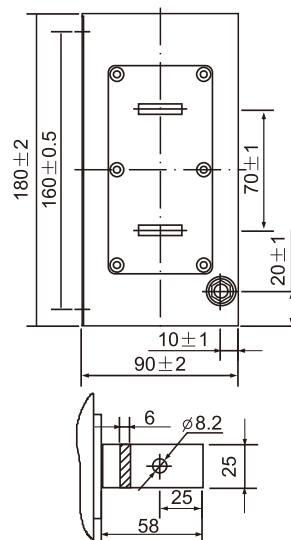


fig. J2...

