filtemc
济南菲奥特

AC Single Phase Filters

交流单相电源滤波器

FT120/FT121/FT1200 系列

产品介绍

- 额定电流：0.5～1600A 可选
- 可选医疗设备专用型（H 型）
- 引线、焊片、螺栓、端子台等多种引出方式可选
- 可提供定制型产品

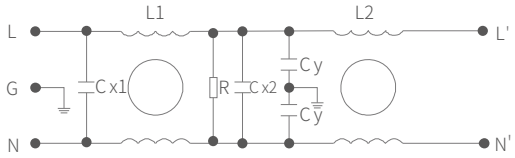
产品特点

- 高性能交流滤波器，拥有优异的共模、差模滤波效果，有效滤波范围为 10KHz~30MHz；
- FT120 与 FT121 系列采用两级共模滤波设计，整体滤波效果基本相同，仅根据电流不同有细微差异；
- FT1200 系列采用一级差模和一级共模组成的两级滤波设计，更强调对差模干扰信号的滤除；
- 380VAC（含）以上高工作电压产品可选；

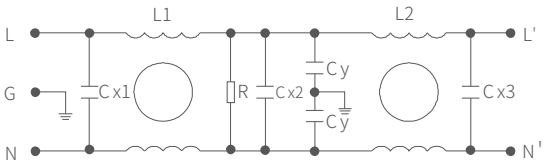
应用领域

- 电子电气设备
- 数据通讯设备
- 各种电源类产品等对滤波有更高要求的电子设备
- 消费电子
- 办公自动化设备

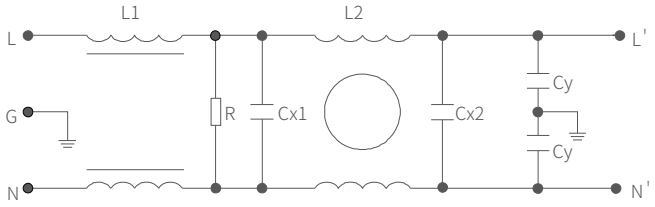
电路原理图



FT120



FT121



FT1200

技术参数

额定电压 VR	110/250VAC
工作频率 FR	50/60Hz
额定电流 IR	0.5~1600A@40°C
测试电压 Vtest	1760VDC，3S（线-线）；2000VAC，3S（线-地）
气候类别（IEC 60068-1）	25/085/21（-25°C/+85°C湿热试验 21 天）

产品列表

产品型号	额定电流[A]	泄露电流[mA] 250VAC/50Hz @20°C	连接方式				重量[g]
			-S	-L	-W	-T	
FT120-1	1	< 0.6	---	---	○	---	95

产品型号	额定电流[A]	泄露电流[mA] 250VAC/50Hz @20°C	连接方式				重量[g]
			-S	-L	-W	-T	
FT120-3	3	<0.6	---	---	○	---	95
FT120-6	6	<0.6	---	---	○	---	95
FT120-10	10	<0.6	---	○	---	---	170
FT120-20	20	<1.0	M4	---	---	○	310/260
FT120-30	30	<1.0	M6	---	---	○	350/330
FT120-40	40	<1.0	M6	---	---	○	620/450
FT120-50	50	<3.0	M6	---	---	○	900/1300
FT121-3	3	<0.6	---	---	○	---	170
FT121-6	6	<1.0	M4	○	---	---	170/140
FT121-10	10	<1.0	M4	○	---	---	170/140
FT121-20	20	<1.0	M4	---	---	○	320/280
FT121-30	30	<1.0	M6	---	---	○	360/350

产品型号	额定电流[A]	泄露电流[mA] 250VAC/50Hz @20°C	连接方式				重量[g]
			-S	-L	-W	-T	
FT121-40	40	< 1.0	M6	---	---	○	630/470
FT121-50	50	< 3.0	M6	---	---	○	900/1300
FT121-60	60	< 3.0	M6	---	---	○	1480/1500
FT121-80	80	< 3.0	M8	---	---	○	2850/3600
FT121-100	100	< 3.0	M8	---	---	○	3070/3770
FT121-150	150	< 5.0	M10	---	---	○	3850/4850
FT121-200	200	<5.0	M10	---	---	○	4240/6550
FT1200-1	1	< 0.6	---	---	○	---	65
FT1200-3	3	< 0.6	---	---	○	---	95
FT1200-6	6	<1.0	M4	○	---	---	175/150
FT1200-10	10	< 1.0	M4	○	---	---	175/150
FT1200-20	20	< 1.0	M4	---	---	○	600/500

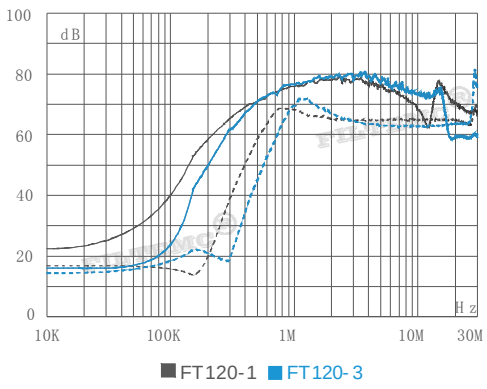
产品型号	额定电流[A]	泄露电流[mA] 250VAC/50Hz @20°C	连接方式 -S	-L	-W	-T	重量[g]
FT1200-30	30	< 1.0	M6	---	---	○	.630/550
FT1200-40	40	< 1.0	M6	---	---	○	750/650
FT1200-50	50	< 1.0	M6	---	---	○	1600/1450
FT1200-60	60	< 3.0	M6	---	---	○	1490/1510
FT1200-80	80	< 3.0	M8	---	---	○	2000/3500

插入损耗(dB)

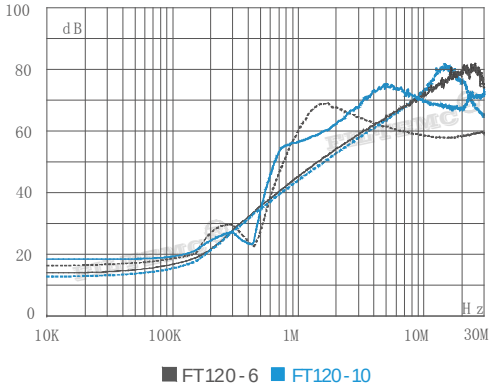
——— 共模

- - - - 差模

*说明：插入损耗依据UL1283 标准，在空载、50Ω-50Ω系统下测得，最终效果请依据在实际工作状态下的数据为准



■FT120-1 ■FT120-3



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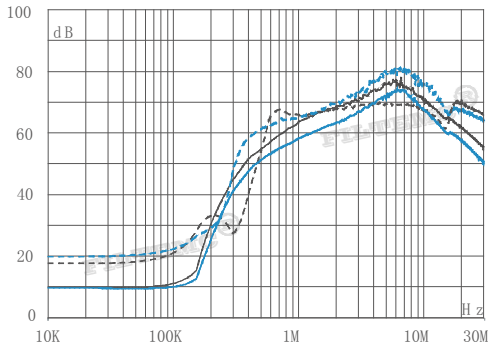

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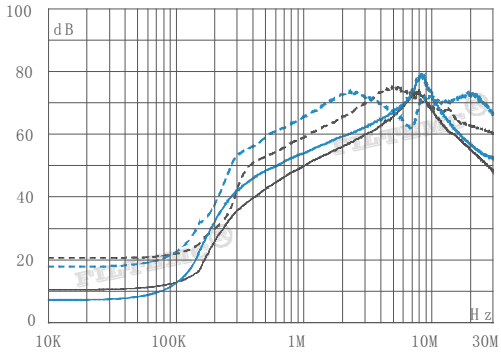

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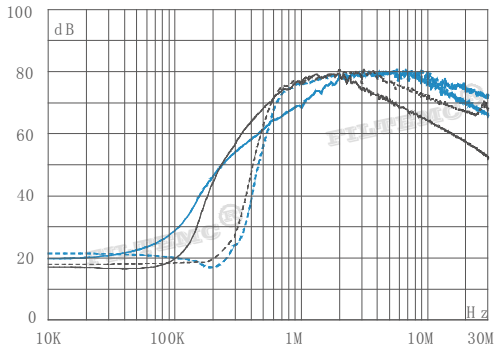

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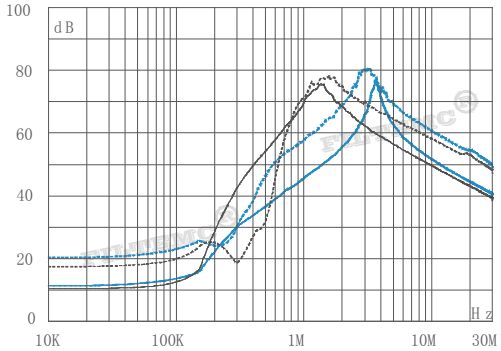

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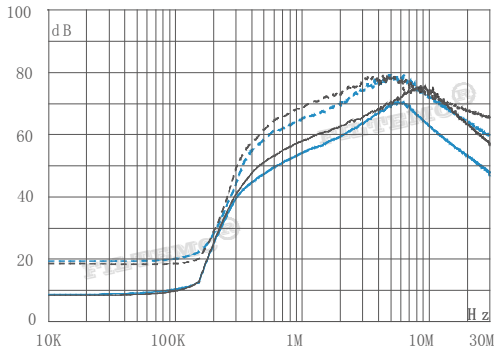
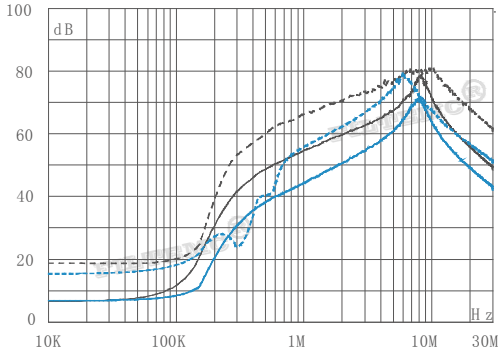
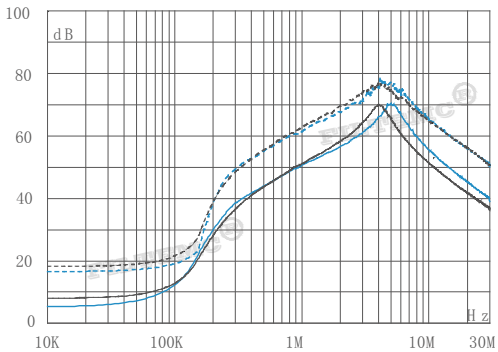


■ FT121-30 ■ FT121-40



■ FT121-50 ■ FT121-60



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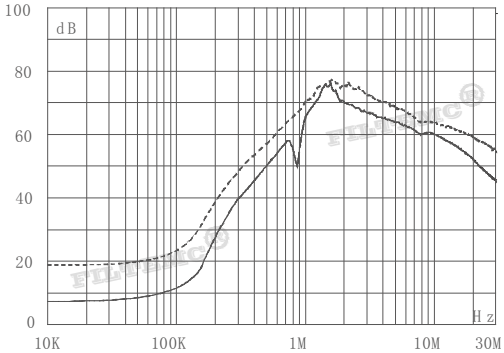

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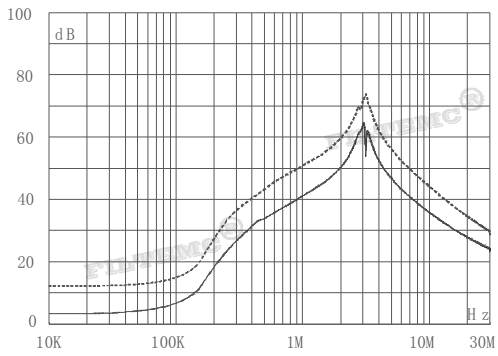

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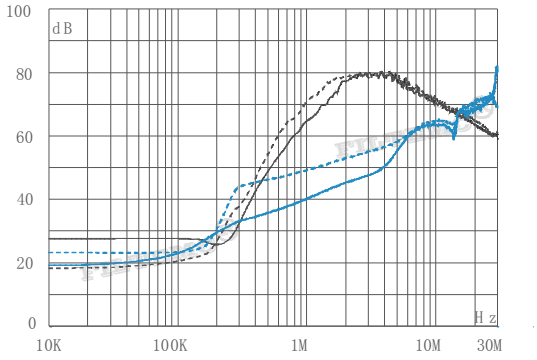

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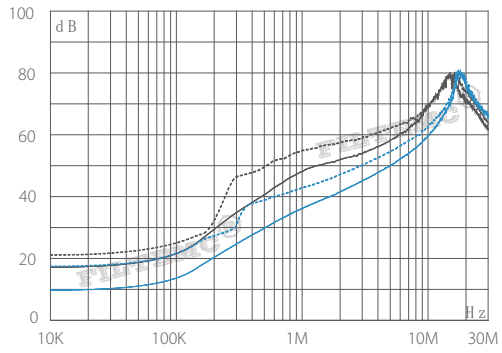
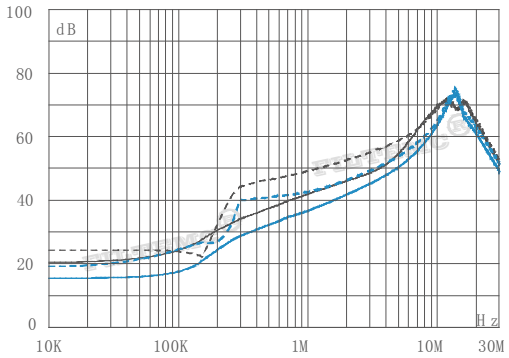
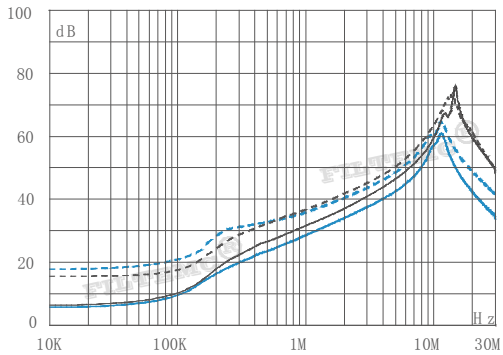


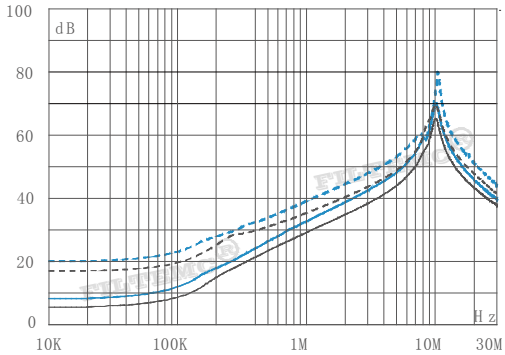
■ FT1200-6 ■ FT1200-10



■ FT1200-20 ■ FT1200- 30

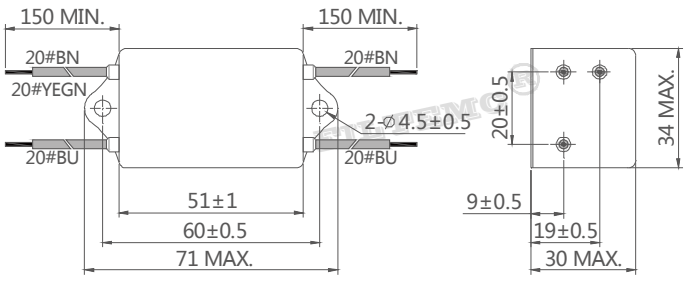


■ FT1200-40 ■ FT1200- 50

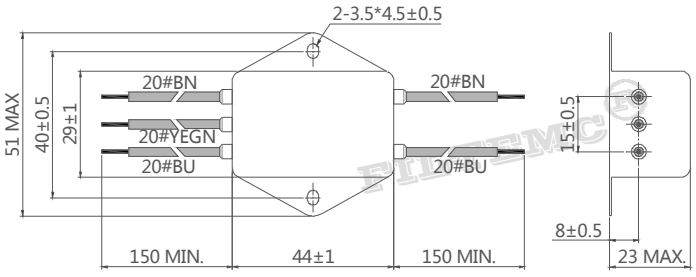


■ FT1200-60 ■ FT1200- 80

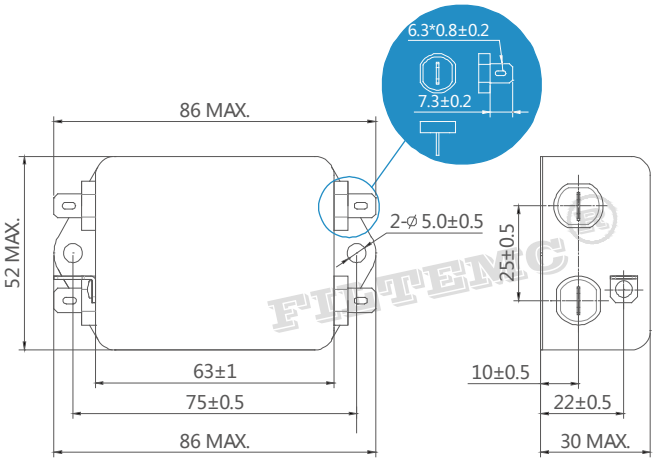
外形尺寸(mm)



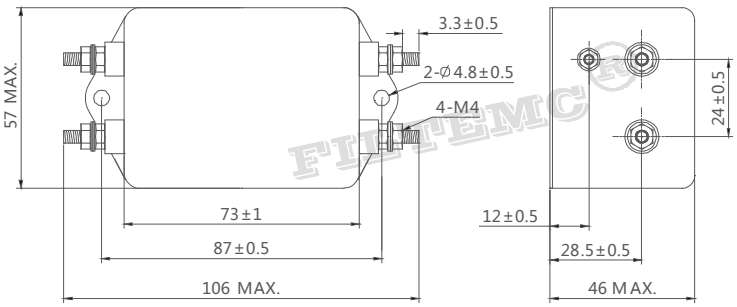
FT120-1/3/6 FT1200 -3 FT121-3



FT1200-1



FT120-10 FT121-6/10 FT1200 -6/10



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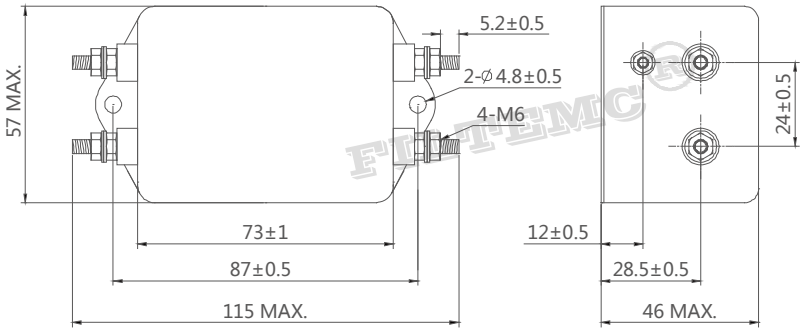
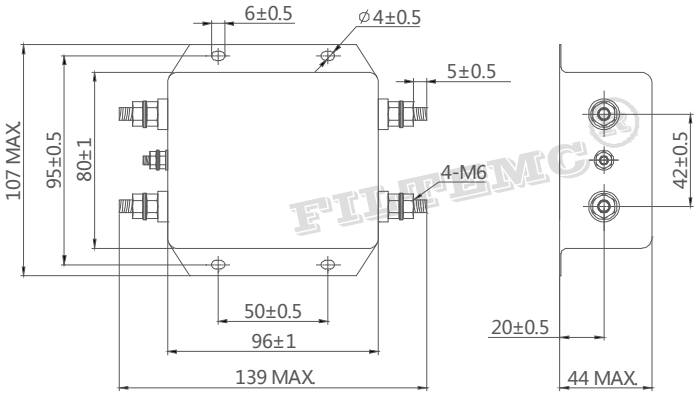
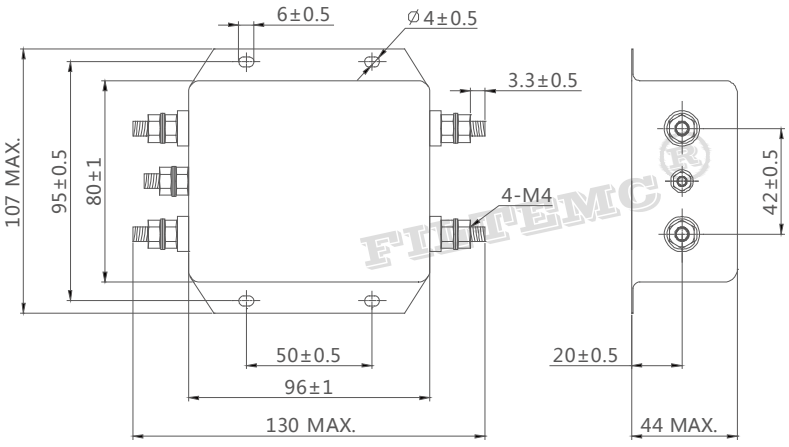


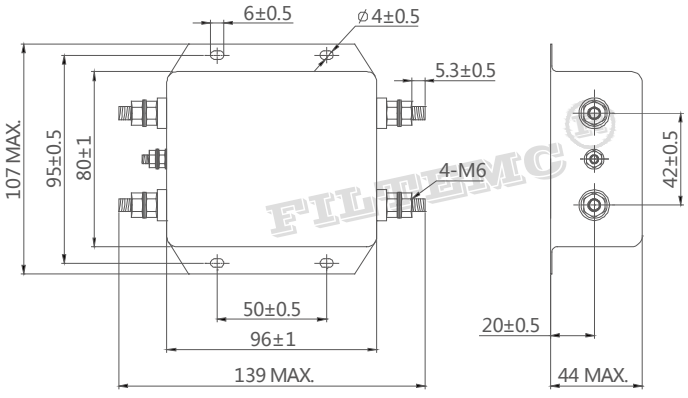
FT120-30 FT121-30



FT120-40 FT121-40 FT1200-40



FT1200-20



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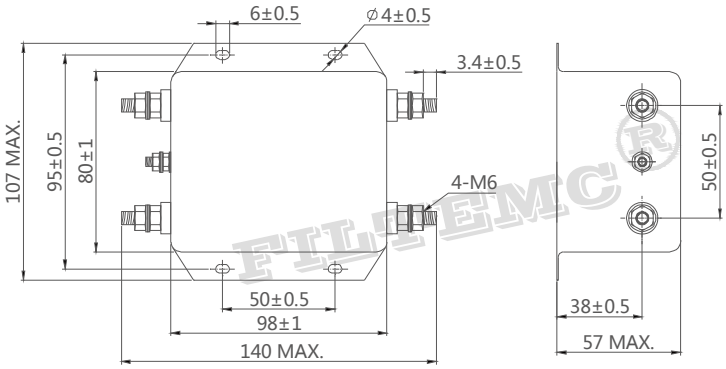
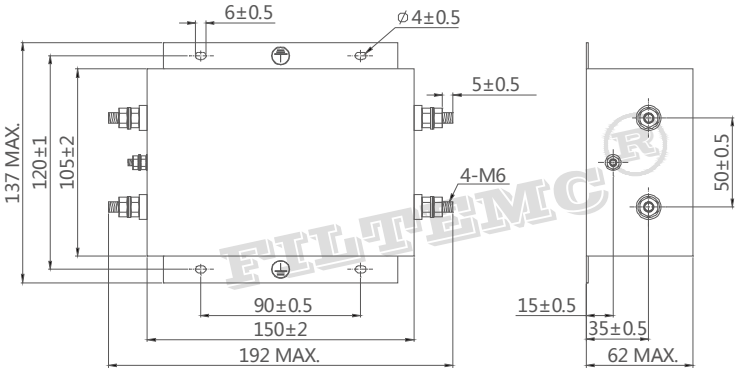
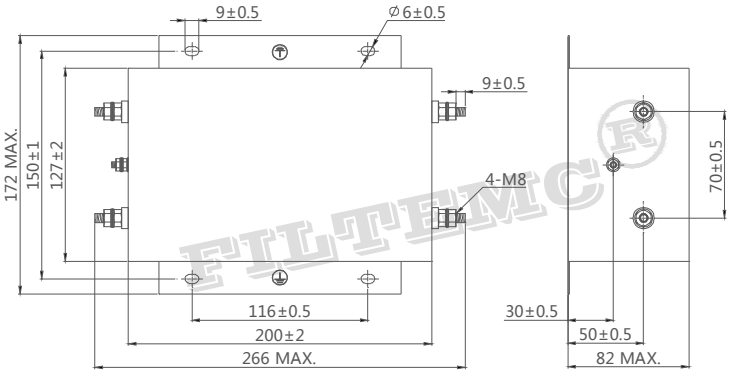


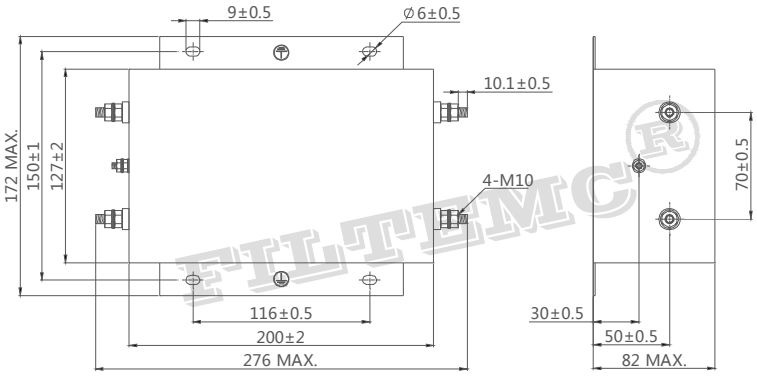
FT120-50



FT121-50/60 FT1200-50/60



FT121-80/100 FT1200-80



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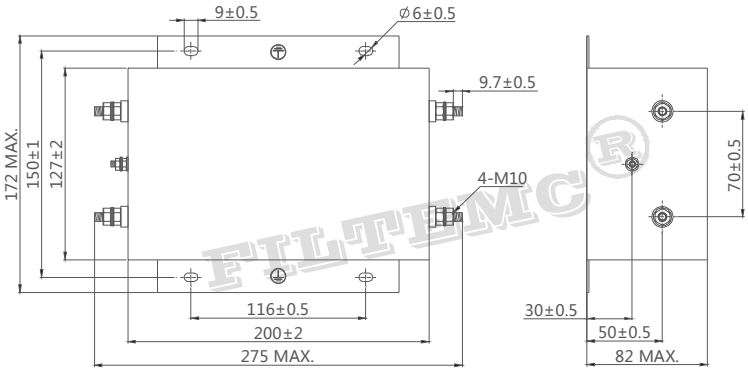
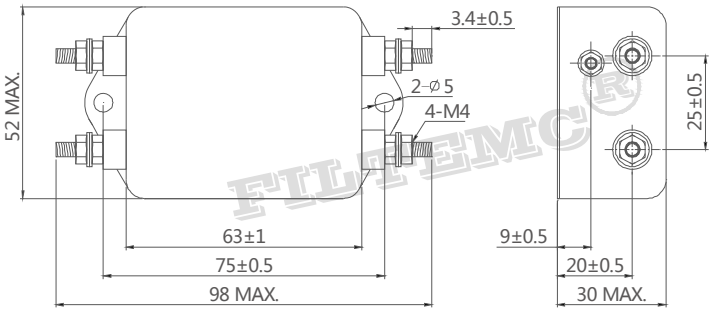
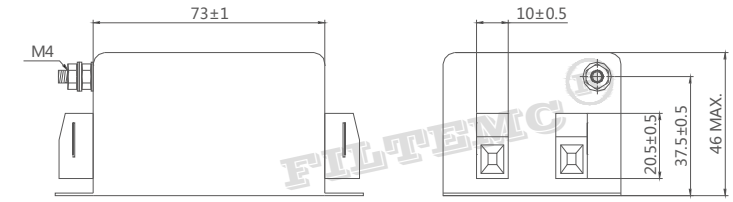


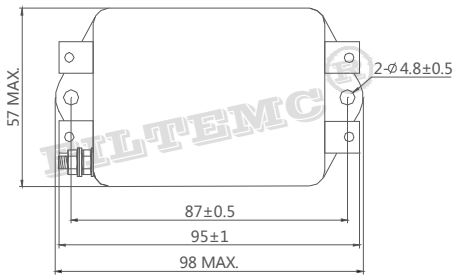
FT121-200



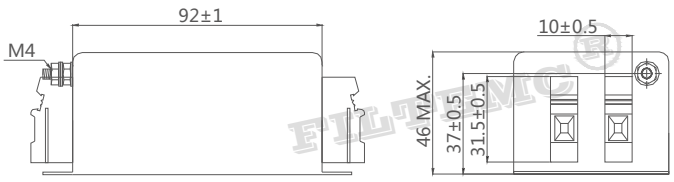
FT1200-6/10

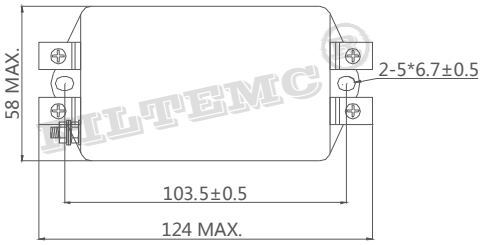
外形尺寸（mm）端子台系列



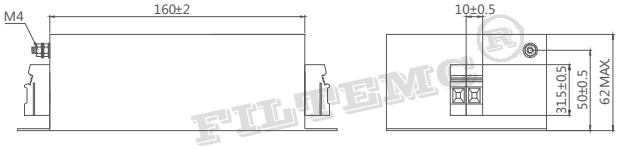


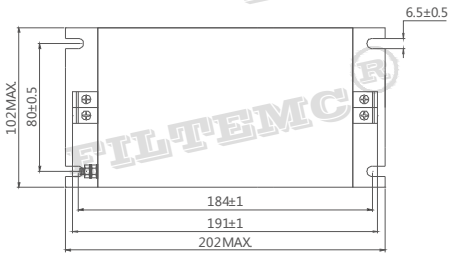
FT120-20/30-T2 FT121-20/30-T2



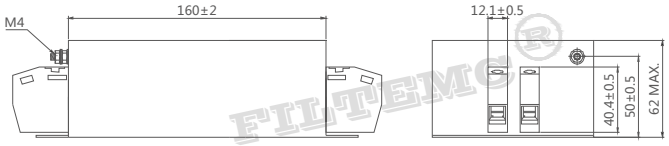


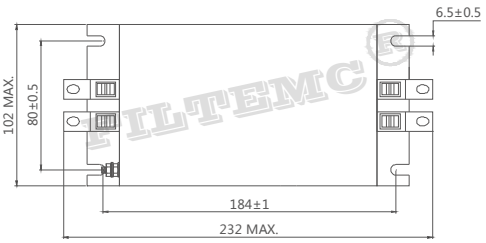
FT120-40-T2 FT121-40-T2



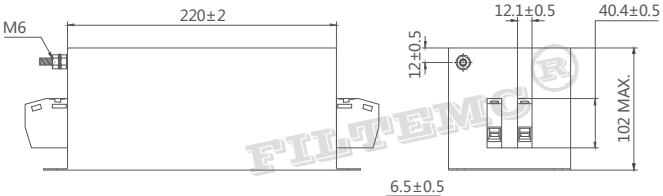


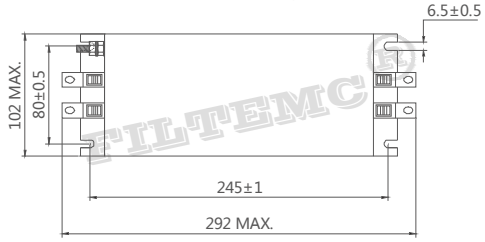
FT120-50-T2 FT121-50-T2 FT1200-50-T2





FT121-60-T2 FT1200-60-T2





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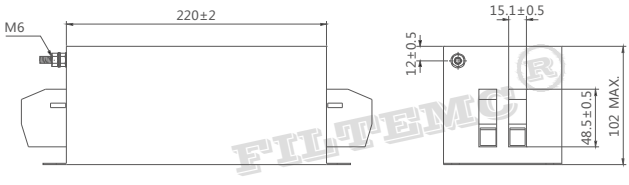

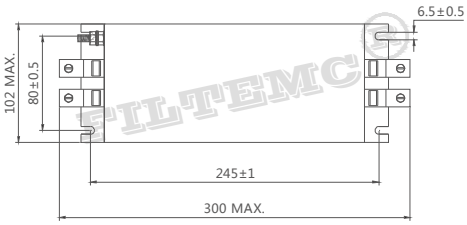

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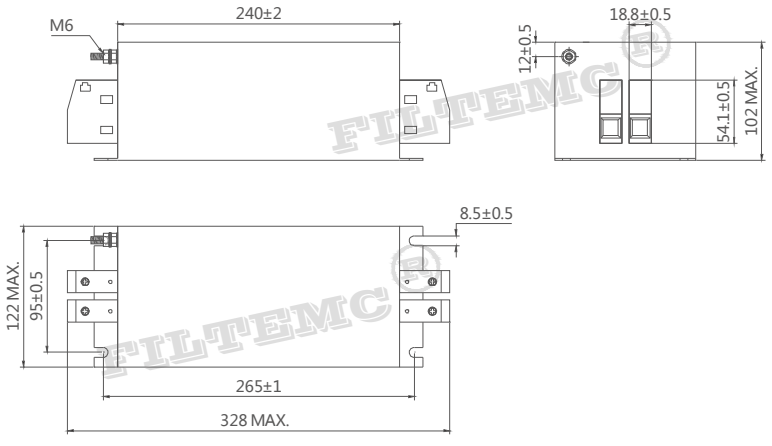

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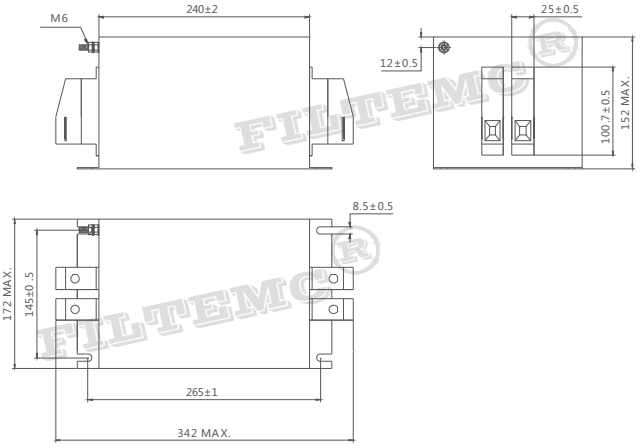

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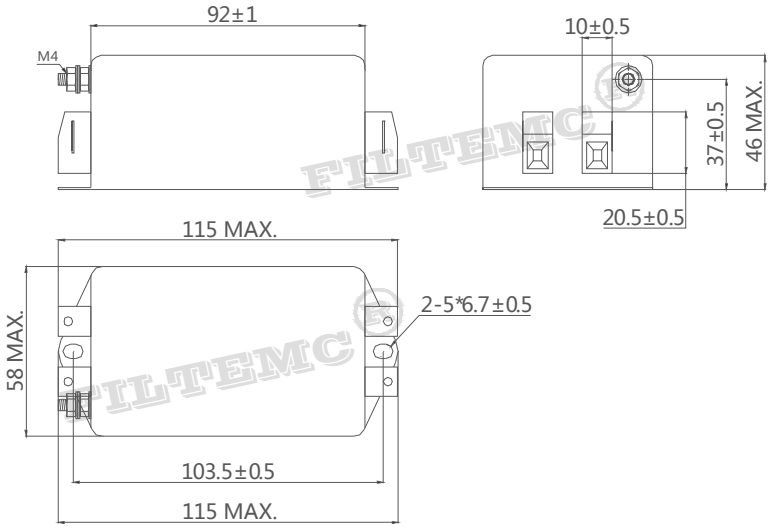
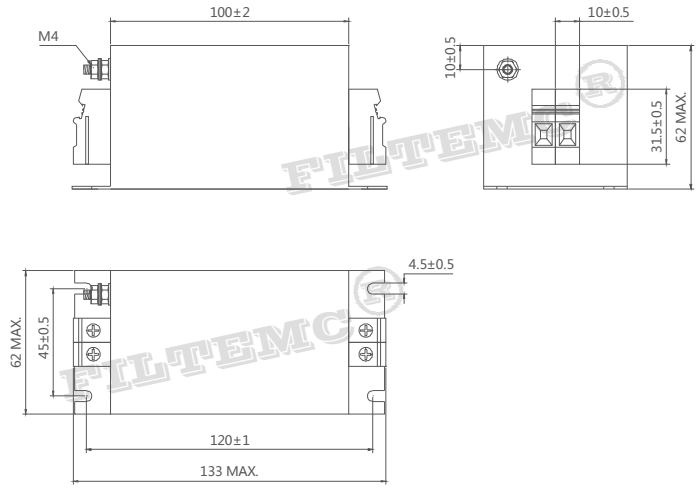


FT1200-20/30-T2



FT1200-40-T2

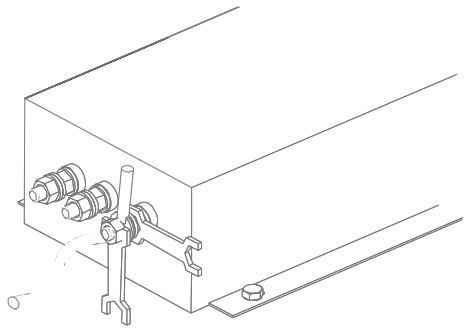
滤波器使用指南

1、滤波器存储及运行环境：

电源滤波器不得暴晒或淋雨，应存放在空气流通、周围介质温度为-30°C-+65°C、空气最大相对湿度不超过90% (空气温度为20°C±5°C时）、无腐蚀性液体、气体的仓库中。

2、滤波器的安装：

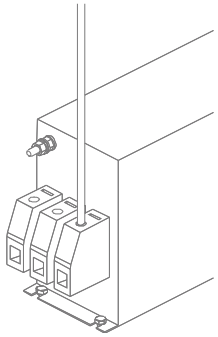
- 滤波器安装位置应选在电源入口处，缩短输入线在机箱内长度，减少辐射干扰。
- 滤波器输入线和输出线，既不能进行交叉，也不能用线扎进行捆扎。
- 滤波外壳必须大面积接地；连接到其他设备上时，接地线应尽量短。
- 若滤波器输出端子是螺栓，用户在接线时需用两把扳手来拧紧螺母，以免因螺栓转动而导致内部线路的变动致使滤波器出现打火、短路、击穿及滤波器效果的下降。紧固螺钉时应先用扳手1固定住根部螺母，再用扳手2拧紧螺母（如图一）否则可能导致滤波器端子损坏。其它各相连接方法相同。



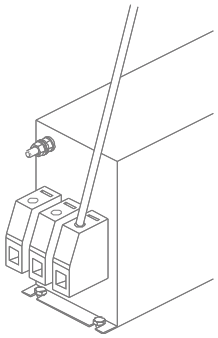
（图一）

- 端子台滤波器产品安装时必须注意拧螺钉的工具尽可能与外壳垂直（如图二），切勿倾斜（图三), 以免对端子台造成损坏。

（图二）



（图三）



3、提醒和警告：

请仔细阅读所有安全警告说明，然后再安装滤波器并投入运行：

- 用户在搬运滤波器时切勿以滤波器输出端子为支撑点，以免端子出现扭曲、松动、断落而影响滤波器的正常使用。
- 安装滤波器时保护接地应先连接，最后被断开； 滤波器产品有漏电流，请确保良好接地后使用；大于50 A的滤波器时，建议确保滤波器接地端子良好接地，而不仅仅是通过滤波器外壳接地。
- 触电危险：电源滤波器带有能存储电压的元器件，断电后5秒甚至更长时间之内在滤波器端子上仍可能存在有危险电压。
- 滤波器工作条件应符合产品商标标注的技术标准；超压或过载都会导致滤波器的损坏，建议采取适当过电流保护措施。
- 环境温度升高时会出现电流降额，如不遵守电流降额要求可能会导致滤波器过热；长时间使用会导致滤波器寿命缩短或损坏。

服务与支持

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技术部QQ：507982518

销售部电话：0531-58622889
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