


AC Single Phase Series Filters

Features & Applications

- Effectively suppress the electromagnetic interference on line to line and line to ground
- Highly efficient and cost-effective
- Suitable for switching power supply, UPS, vending machines, embroidery machines, oscilloscopes, industrial computers, controllers and many other devices
- Safety approval: 






SP110/SP111 Series
RoHS

Technical data

Rated Voltage	110/250VAC		Rated Current@40°C	0.5A~250A
Test Voltage	line-line	1760VDC	Climatic Category	25/085/21
	line-ground	2000VAC	Operating Frequency	50/60Hz

Tabulates

Part No.	Rated current @40°C	Leakage current 250VAC/50Hz @20°C	Dimension	Electrical schematics	Termination			Weight (g)
								
SP110-1	1A	<0.5mA	Fig.1	Fig.1	---	---	○	65
SP110-3	3A	<0.5mA	Fig.1	Fig.1	---	---	○	65
SP110-6	6A	<0.5mA	Fig.1	Fig.1	---	---	○	65
SP110-10	10A	<0.5mA	Fig.2	Fig.1	---	○	---	75
SP111-6	6A	<1.0mA	Fig.3/ Fig.4	Fig.2	M4	○	---	140
SP111-10	10A	<1.0mA	Fig.3/ Fig.4	Fig.2	M4	○	---	170
SP111-20	20A	<1.0mA	Fig.3/ Fig.4	Fig.2	M4	○	---	170
SP111-30	30A	<1.0mA	Fig.5	Fig.2	M6	---	---	320
SP111-50	50A	<2.0mA	Fig.6	Fig.2	M6	---	---	600
SP111-100	100A	<2.0mA	Fig.7	Fig.2	M8	---	---	1380
SP111-150	150A	<2.0mA	Fig.8	Fig.2	M10	---	---	1900
SP111-200	200A	<2.0mA	Fig.8	Fig.2	M10	---	---	1900

Electrical schematics

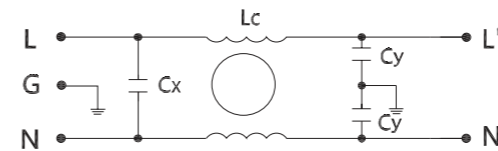


Fig.1

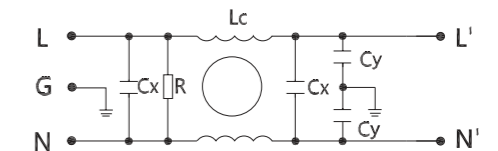
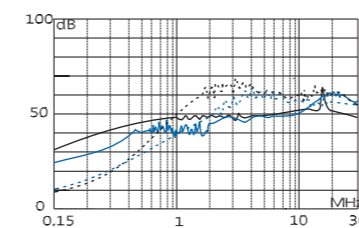


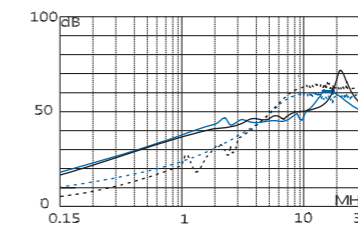
Fig.2

Insertion loss(dB)

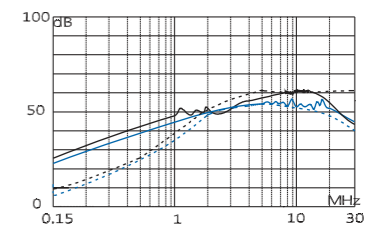
— common mode --- differential mode



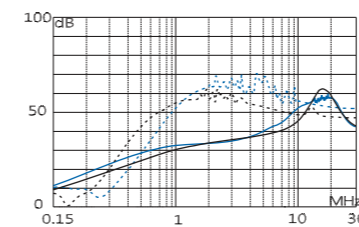
SP110-1 SP110-3



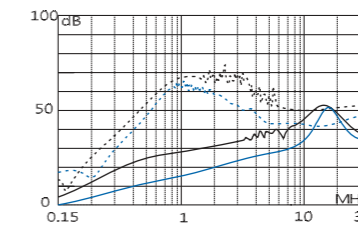
SP110-6 SP110-10



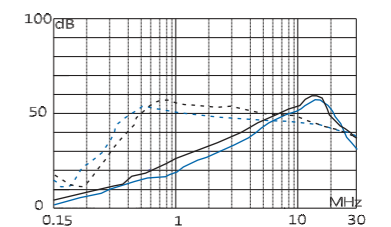
SP111-6 SP111-10



SP111-20 SP111-30



SP111-50 SP111-100



SP111-150 SP111-200

Outline drawing and dimensions(mm)

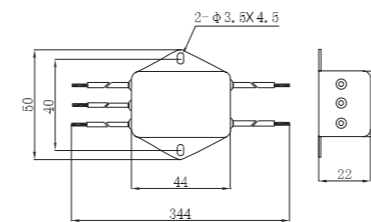


Fig.1

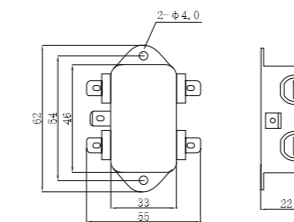


Fig.2

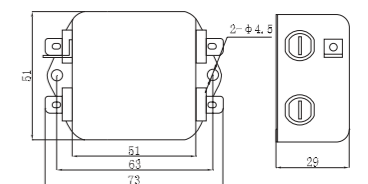


Fig.3

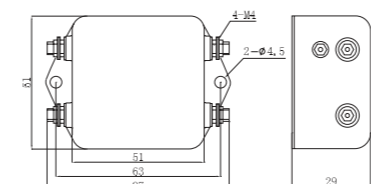


Fig.4

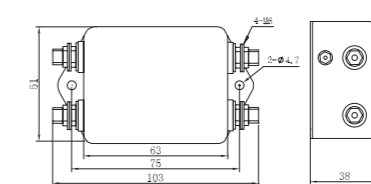


Fig.5

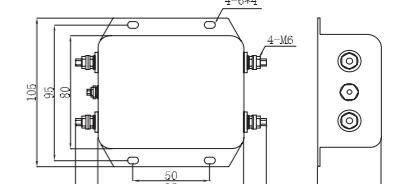


Fig.6

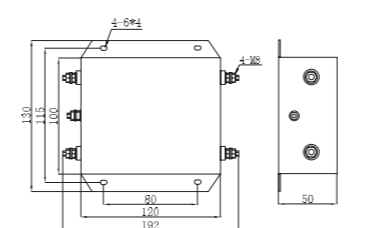


Fig.7

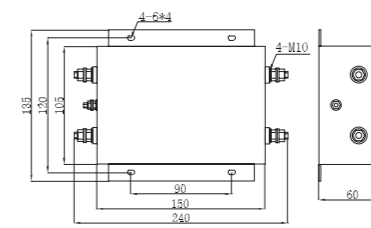



Fig.8

AC Single Phase Series Filters

Features & Applications

- High security and reliability, high performance filters
- Excellent performance of suppressing common mode and differential mode interference
- Highly cost-effective, various connection ways
- Suitable for switching power supply, UPS, ATM, bill counter, embroidery machine, fuel dispenser, engraving machine, controller, industrial computer, scientific analytical instruments and other power electronic equipments as well as inverter equipments
- Safety approval: 






SP120/SP121/SP1200 Series
RoHS

Technical data

Rated Voltage	110/250VAC		Rated Current@40°C	0.5A~250A
Test Voltage	line-line	1760VDC	Climatic Category	25/085/21
	line-ground	2000VAC	Operating Frequency	50/60Hz

Tabulates

Part No.	Rated current @40°C	Leakage current 250VAC/50Hz @20°C	Dimension	Electrical schematics	Termination			Weight (g)
								
SP120-1	1A	<0.5mA	Fig.1	Fig.1	---	---	○	65
SP120-3	3A	<0.5mA	Fig.2	Fig.1	---	---	○	95
SP120-6	6A	<0.5mA	Fig.2	Fig.1	---	---	○	95
SP120-10	10A	<1.0mA	Fig.3	Fig.1	---	○	---	75
SP121-6	6A	<1.0mA	Fig.3	Fig.2	M4	○	---	170
SP121-10	10A	<1.0mA	Fig.3	Fig.2	M4	○	---	170
SP121-20	20A	<1.0mA	Fig.4	Fig.2	M4	○	---	320
SP121-50	50A	<2.0mA	Fig.6	Fig.2	M6	---	---	1400
SP121-100	100A	<2.0mA	Fig.7	Fig.2	M8	---	---	2000
SP121-200	200A	<2.0mA	Fig.7	Fig.2	M10	---	---	3000
SP1200-1	1A	<0.5mA	Fig.1	Fig.3	---	---	○	65
SP1200-3	3A	<0.5mA	Fig.2	Fig.3	---	---	○	95
SP1200-6	6A	<1.0mA	Fig.3	Fig.3	M4	○	---	175
SP1200-10	10A	<1.0mA	Fig.3	Fig.3	M4	○	---	175
SP1200-20	20A	<1.0mA	Fig.5	Fig.3	M4	---	---	600
SP1200-50	50A	<2.0mA	Fig.6	Fig.3	M6	---	---	1600

Electrical schematics

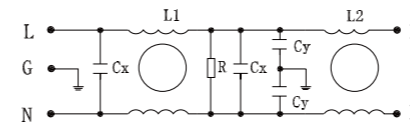


Fig.1

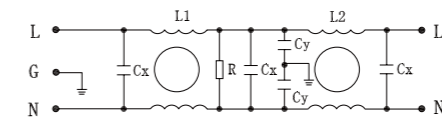


Fig.2

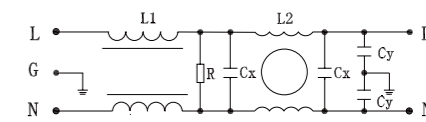
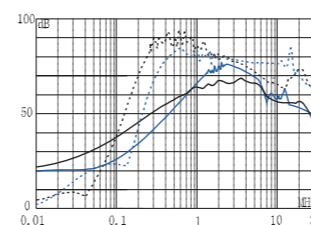


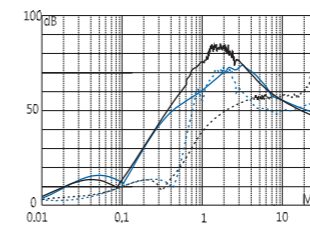
Fig.3

Insertion loss(dB)

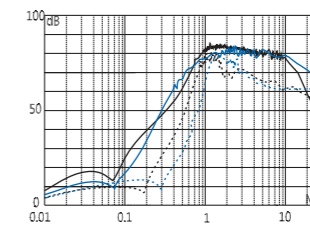
— common mode - - - differential mode



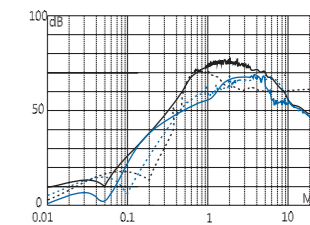
SP120-1 SP120-3



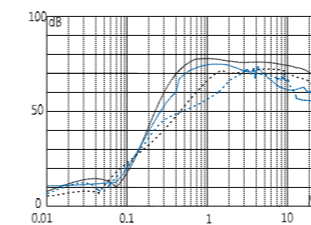
SP120-6 SP120-10



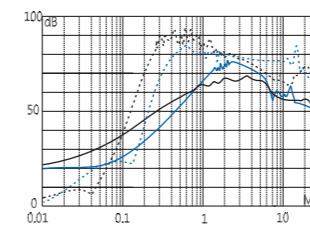
SP121-6 SP121-10



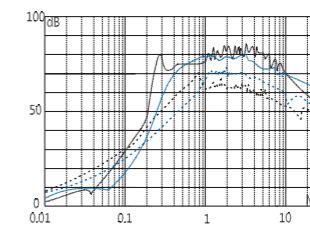
SP121-20 SP121-50



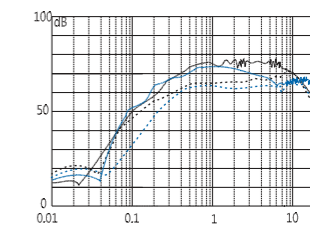
SP121-100 SP121-200



SP1200-1 SP1200-3



SP1200-6 SP1200-10



SP1200-20 SP1200-50

Outline drawing and dimensions(mm)

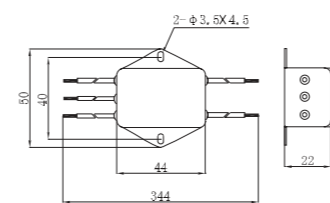


Fig.1

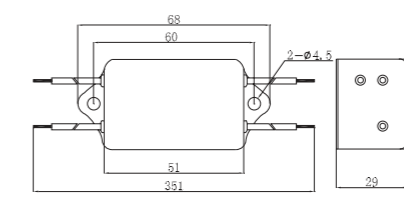


Fig.2

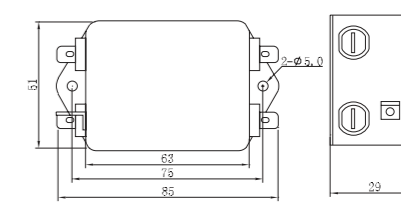


Fig.3

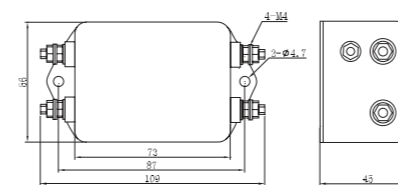


Fig.4

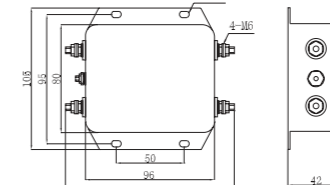


Fig.5

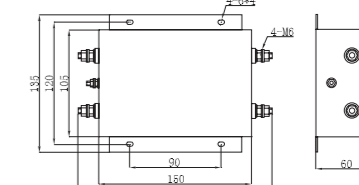


Fig.6

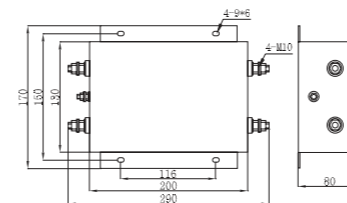



Fig.7

AC Single Phase Series Filters

Electrical schematics

Features & Applications

- High security and reliability, high performance filters
- Good performance of suppressing common mode and differential mode interference at frequency range 10KHz~30MHz
- Highly cost-effective, various connection ways
- Suitable for switching power supply, UPS, ATM, bill counter, embroidery machine, fuel dispenser, engraving machine, controller, industrial computer, scientific analytical instruments and other power electronic equipments as well as inverter equipments
- Safety approval: 






SP130 Series
ROHS

Technical data

Rated Voltage	110/250VAC		Rated Current@40°C	0.5A~630A
Test Voltage	line-line	1760VDC	Climatic Category	25/085/21
	line-ground	2000VAC	Operating Frequency	50/60Hz

Tabulates

Part No.	Rated current @40°C	Leakage current 250VAC/50Hz @20°C	Dimension	Electrical schematics	Termination			Weight (g)
								
SP130-1	1A	<1.5mA	Fig.1	Fig.1	---	---	○	65
SP130-3	3A	<1.5mA	Fig.2	Fig.1	---	○	---	145
SP130-6	6A	<1.5mA	Fig.3	Fig.1	M4	---	---	450
SP130-10	10A	<2.5mA	Fig.3	Fig.1	M4	---	---	550
SP130-20	20A	<2.5mA	Fig.3	Fig.1	M4	---	---	550
SP130-50	50A	<2.5mA	Fig.4	Fig.1	M6	---	---	3300

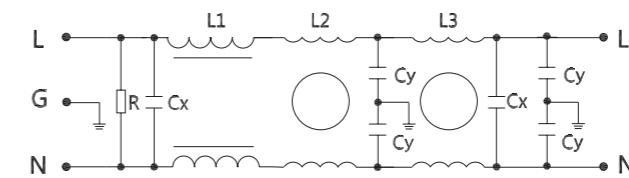
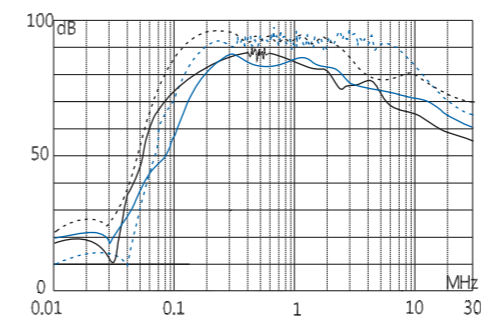


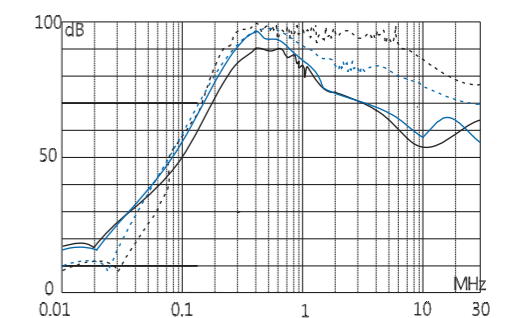
Fig.1

Insertion loss(dB)

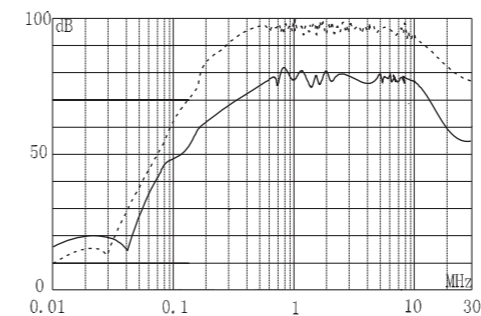
— common mode ---- differential mode



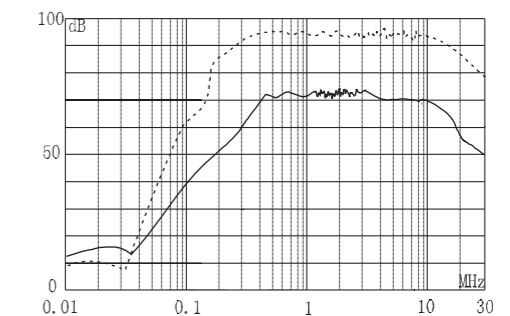
SP130-1 SP130-3



SP130-6 SP130-10



SP130-20



SP130-50

Outline drawing and dimensions(mm)

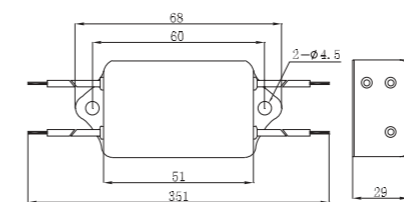


Fig.1

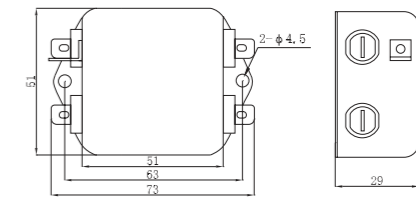


Fig.2

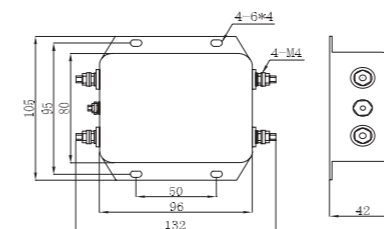


Fig.3

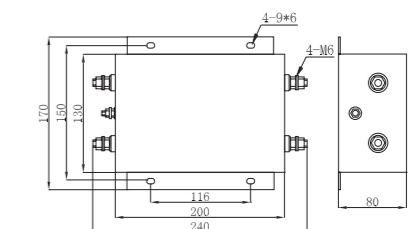



Fig.4

DC Series Filters

Features & Applications

- Specially designed for suppressing the noise on DC power line
- Compact structure, good attenuation effect
- Highly cost-effective, various connection ways
- Suitable for all kinds of DC electronic equipments, such as switching power supply, PBX and so on
- Safety approval: 






SP110D/SP111D Series

RoHS

Technical data

Rated Voltage	24VDC~250VDC	Rated Current@40°C	0.5A~250A
Operating Frequency	DC	Climatic Category	25/085/21

Tabulates

Part No.	Rated current @40°C	Dimension	Electrical schematics	Termination			Weight (g)
							
SP110D-1	1A	Fig.1	Fig.1	---	---	○	65
SP110D-3	3A	Fig.1	Fig.1	---	---	○	65
SP111D-6	6A	Fig.2	Fig.2	---	○	---	140
SP111D-10	10A	Fig.2	Fig.2	---	○	---	140
SP111D-50	50A	Fig.3	Fig.2	M6	---	---	600
SP111D-100	100A	Fig.4	Fig.2	M8	---	---	1380

Electrical schematics

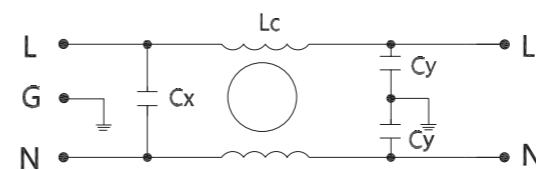


Fig.1

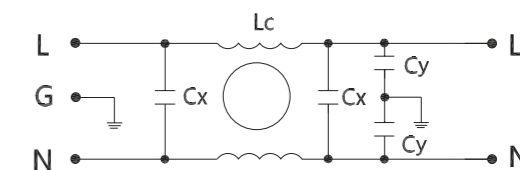
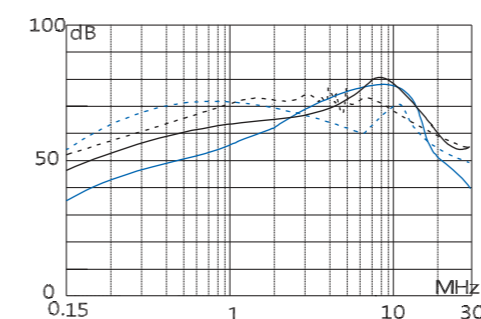


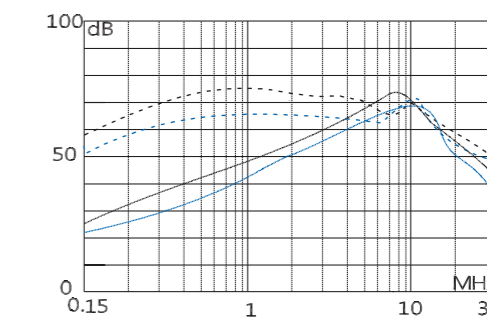
Fig.2

Insertion loss(dB)

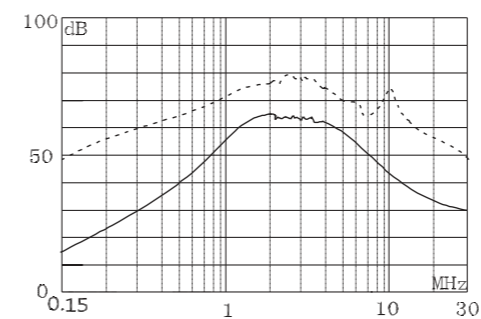


SP110D-1 SP110D-3

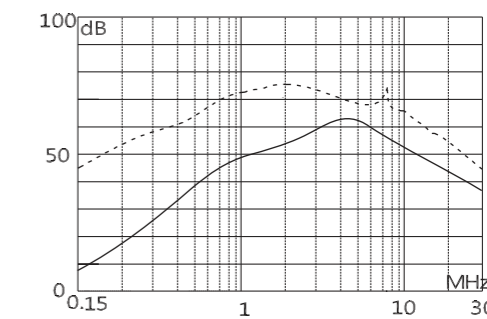
— common mode ---- differential mode



SP111D-6 SP111D-10



SP111D-50



SP111D-100

Outline drawing and dimensions(mm)

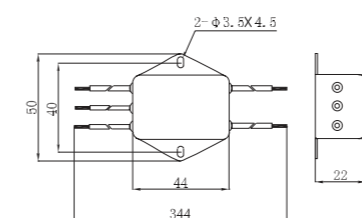


Fig.1

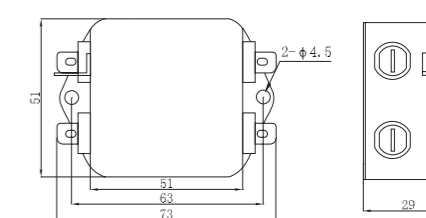


Fig.2

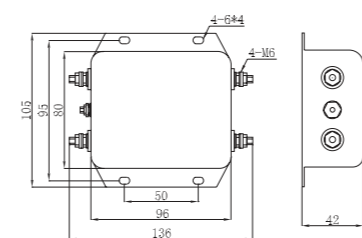


Fig.3

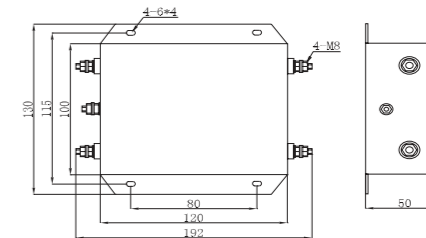



Fig.4

DC Series Filters

Features & Applications

- Specially designed for suppressing the noise on DC power line
- Excellent low and high frequency attenuation effect
- Highly cost-effective, various connection ways
- Suitable for all kinds of DC electronic equipments, such as switching power supply, PBX and so on
- Safety approval: 






SP121D/SP1200D Series

RoHS

Technical data

Rated Voltage	24VDC~250VDC	Rated Current@40°C	0.5A~250A
Operating Frequency	DC	Climatic Category	25/085/21

Tabulates

Part No.	Rated current @40°C	Dimension	Electrical schematics	Termination			Weight (g)
							
SP121D-20	20A	Fig.3	Fig.1	M4	○	---	320
SP121D-30	30A	Fig.3	Fig.1	M4	○	---	320
SP121D-50	50A	Fig.4	Fig.1	M6	---	---	1400
SP121D-80	80A	Fig.5	Fig.1	M8	---	---	2000
SP1200D-1	1A	Fig.1	Fig.2	---	---	○	95
SP1200D-3	3A	Fig.1	Fig.2	---	---	○	95
SP1200D-6	6A	Fig.1/Fig.2	Fig.2	---	○	○	175
SP1200D-10	10A	Fig.2	Fig.2	---	○	---	175

Electrical schematics

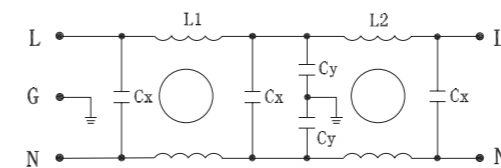


Fig.1

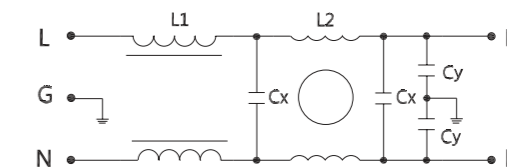
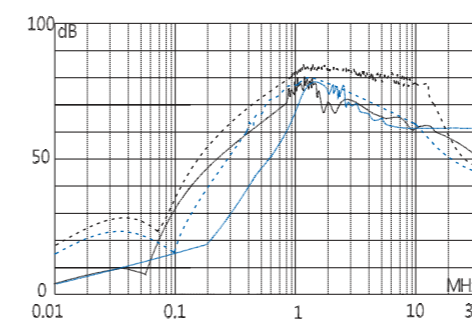


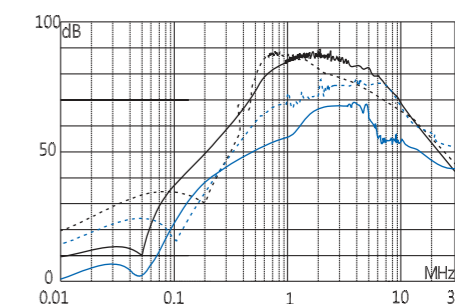
Fig.2

Insertion loss(dB)

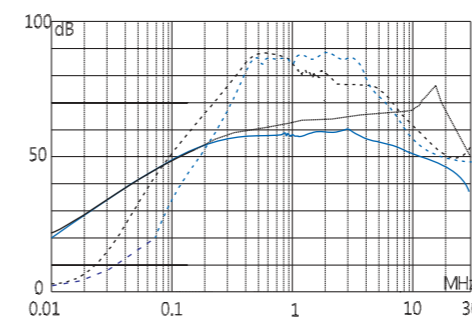
— common mode --- differential mode



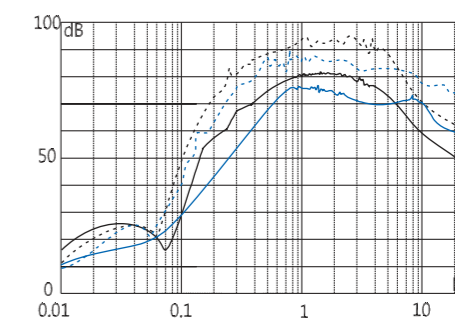
SP121D-20 SP121D-30



SP121D-50 SP121D-80



SP1200D-1 SP1200D-3



SP1200D-6 SP1200D-10

Outline drawing and dimensions(mm)

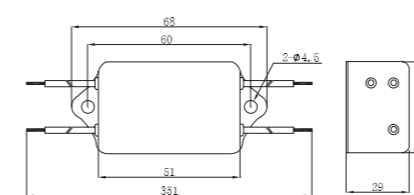


Fig.1

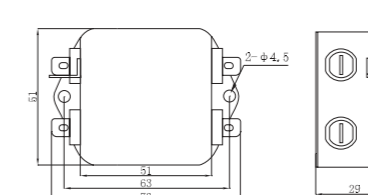


Fig.2

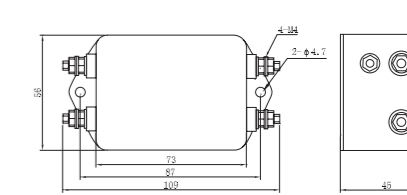


Fig.3

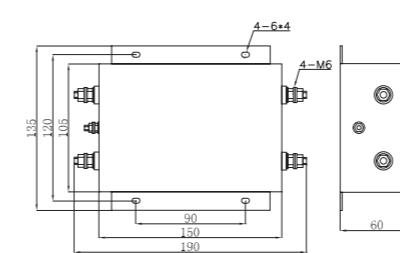


Fig.4

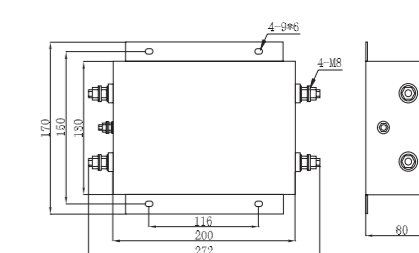



Fig.5

AC 3-Phase 3-Line Series Filters

Features & Applications

- Low leakage current, small size
- Widely used in many kinds of electronic equipments with connection way “ Δ ”, such as printer, packing machine, textile equipment, industrial air conditioner, UPS, X-ray, CT and so on
- Safety approval: 




SP310 Series

ROHS

Technical data

Rated Voltage	250/440VAC		Rated Current@40°C	1A~250A
Test Voltage	line-line	2250VDC	Climatic Category	25/085/21
	line-ground	2700VDC	Operating Frequency	50/60Hz

Tabulates

Part No.	Rated current @40°C	Leakage current 250VAC/50Hz @20°C	Dimension	Termination	Weight (g)
					
SP310-6	6A	<2.0mA	Fig.1	M4	380
SP310-10	10A	<2.0mA	Fig.1	M4	510
SP310-20	20A	<2.0mA	Fig.1	M4	600
SP310-30	30A	<2.0mA	Fig.2	M6	640
SP310-40	40A	<2.0mA	Fig.2	M6	640
SP310-50	50A	<3.0mA	Fig.3	M6	1000
SP310-80	80A	<7.0mA	Fig.4	M8	3000
SP310-100	100A	<7.0mA	Fig.4	M8	3000
SP310-150	150A	<7.0mA	Fig.4	M10	3200
SP310-200	200A	<7.0mA	Fig.4	M10	3200

Electrical schematics

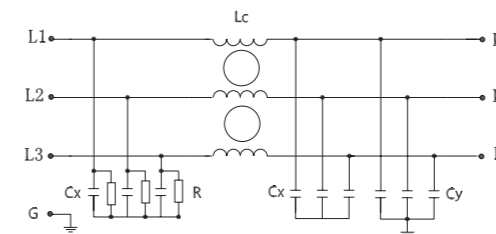
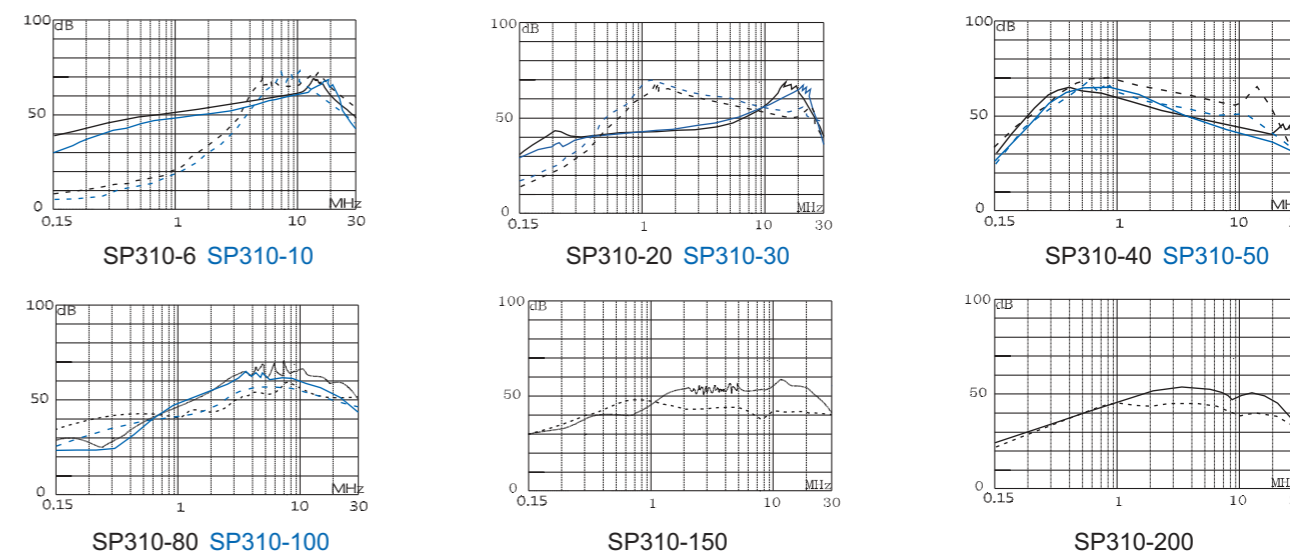


Fig.1

Insertion loss(dB)

— common mode ---- differential mode



Outline drawing and dimensions(mm)

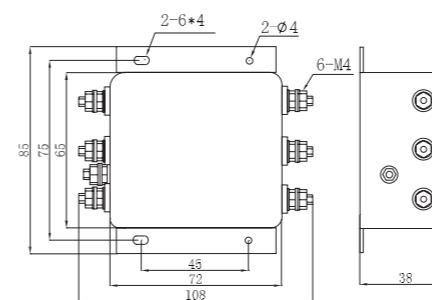


Fig.1

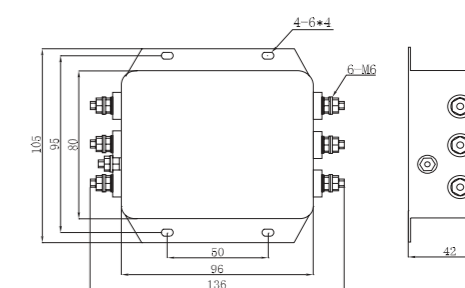


Fig.2

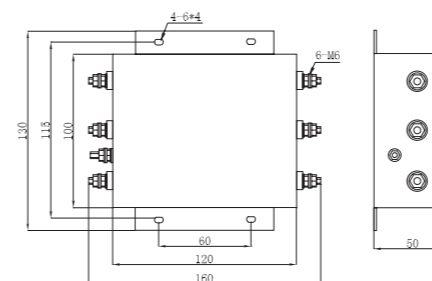


Fig.3

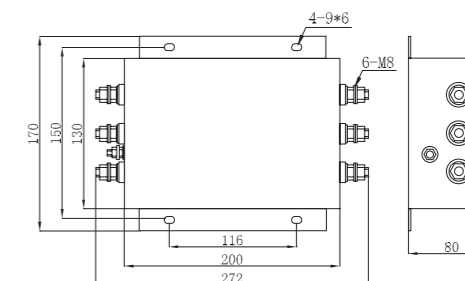



Fig.4

AC 3-Phase 3-Line Series Filters

Features & Applications

- Low leakage current, good performance of suppressing common mode and differential mode interference
- Widely used in many kinds of electronic equipments with connection way “△”, such as printers, packing machine, textile equipment, industrial air conditioner, UPS, X-ray, CT and so on
- Safety approval: 




SP320/SP3200 Series

RoHS

Technical data

Rated Voltage	250/440VAC		Rated Current@40°C	1A~1200A
Test Voltage	line-line	2250VDC	Climatic Category	25/085/21
	line-ground	2700VDC	Operating Frequency	50/60Hz

Tabulates

Part No.	Rated current @40°C	Leakage current 250VAC/50Hz @20°C	Dimension	Electrical schematics	Termination	Weight (g)
						
SP320-10	10A	<4.0mA	Fig.1	Fig.1	M4	1000
SP320-20	20A	<4.0mA	Fig.1	Fig.1	M4	1000
SP320-50	50A	<7.0mA	Fig.2	Fig.1	M6	1600
SP320-100	100A	<7.0mA	Fig.3	Fig.1	M8	3700
SP320-150	150A	<7.0mA	Fig.4	Fig.1	M10	7000
SP320-200	200A	<7.0mA	Fig.4	Fig.1	M10	7000
SP3200-6	6A	<4.0mA	Fig.5	Fig.2	M4	650
SP3200-10	10A	<4.0mA	Fig.5	Fig.2	M4	650
SP3200-20	20A	<10.0mA	Fig.1	Fig.2	M4	1000
SP3200-50	50A	<15.0mA	Fig.3	Fig.2	M6	3200

Electrical schematics

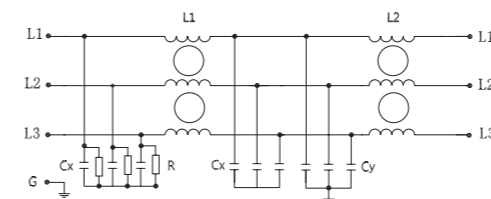


Fig.1

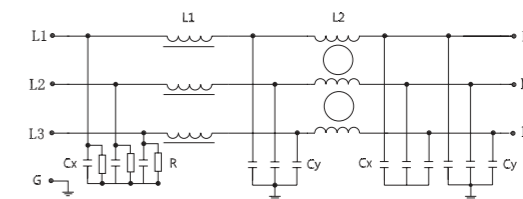
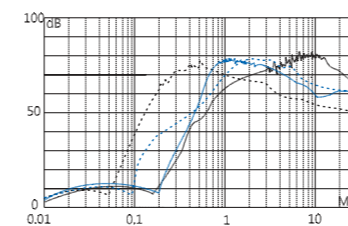


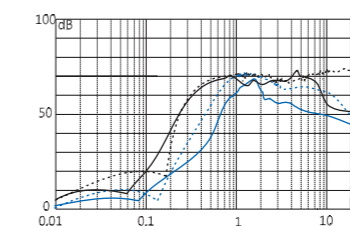
Fig.2

Insertion loss(dB)

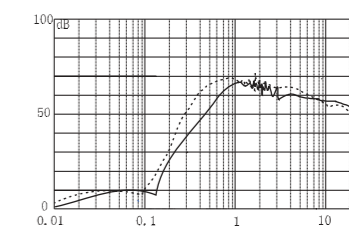
— common mode - - - - differential mode



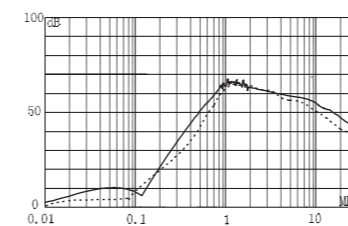
SP320-10 SP320-20



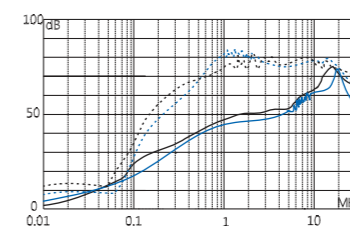
SP320-50 SP320-100



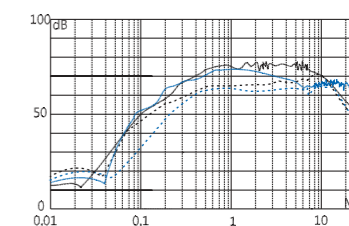
SP320-150



SP320-200



SP3200-6 SP3200-10



SP3200-20 SP3200-50

Outline drawing and dimensions(mm)

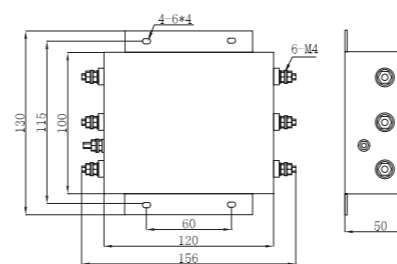


Fig.1

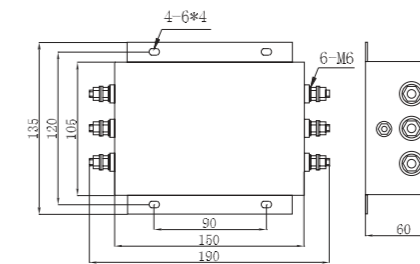


Fig.2

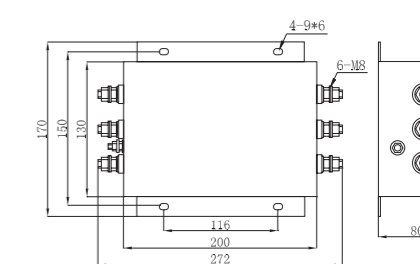


Fig.3

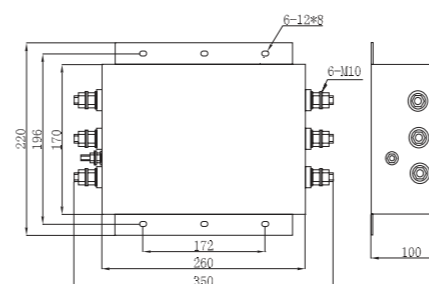


Fig.4

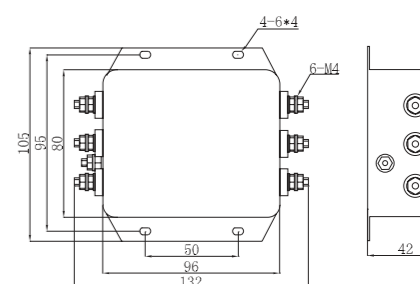



Fig.5

AC 3-Phase 3-Line Series Filters

Electrical schematics

Features & Applications

- Excellent low frequency attenuation effect, good performance of suppressing common mode and differential mode interference
- Terminal block connector, easy to connect the wire, high security and reliability
- Suitable for machine tool device, industrial power supply, inverter power supply, inverter equipment and so on
- Safety approval: 




T3 Terminal Block Series
ROHS

Technical data

Rated Voltage	250/440VAC		Rated Current@40°C	6A~200A
Test Voltage	line-line	2250VDC	Climatic Category	25/085/21
	line-ground	2700VAC	Operating Frequency	50/60Hz

Tabulates

Part No.	Rated current @40°C	Leakage current 250VAC/50Hz @20°C	Dimension	Termination	Weight (g)
					
SP330-6-T3	6A	<7.0mA	Fig.1	○	1600
SP330-10-T3	10A	<7.0mA	Fig.1	○	1600
SP330-25-T3	25A	<7.0mA	Fig.2	○	3200
SP330-30-T3	30A	<7.0mA	Fig.2	○	3200
SP330-60-T3	60A	<7.0mA	Fig.3	○	3200
SP330-80-T3	80A	<7.0mA	Fig.4	○	6700

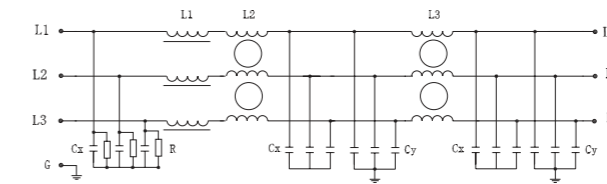
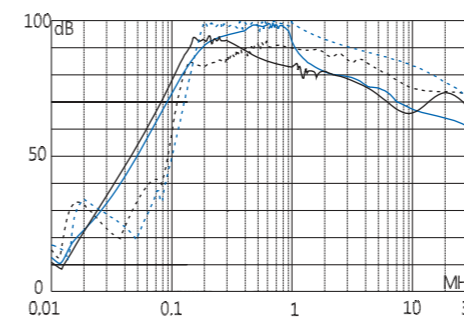


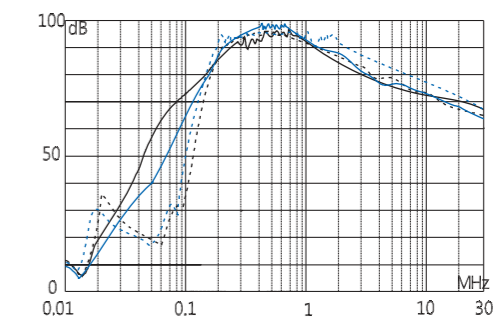
Fig.1

Insertion loss(dB)

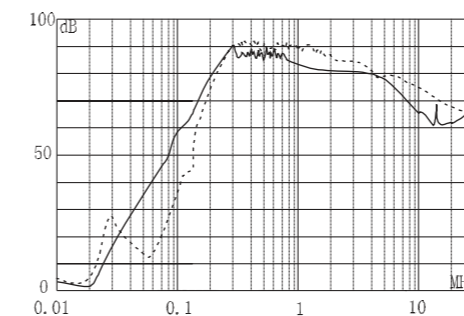
— common mode ---- differential mode



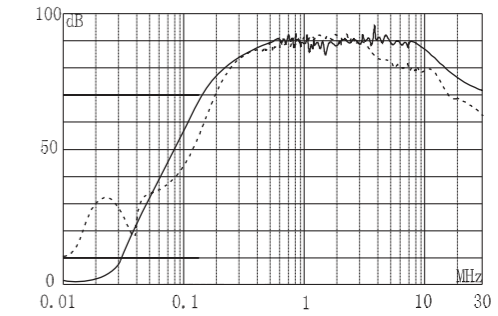
SP330-6-T3 SP330-10-T3



SP330-25-T3 SP330-30-T3



SP330-60-T3



SP330-80-T3

Outline drawing and dimensions(mm)

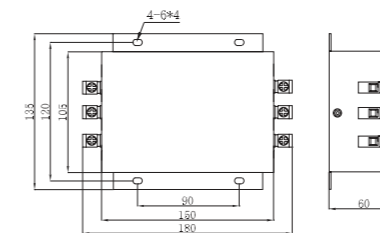


Fig.1

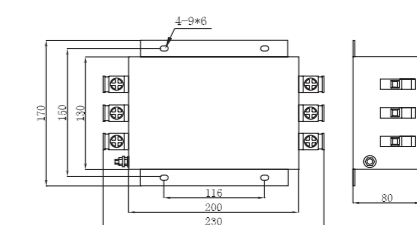


Fig.2

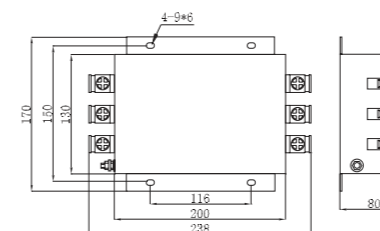


Fig.3

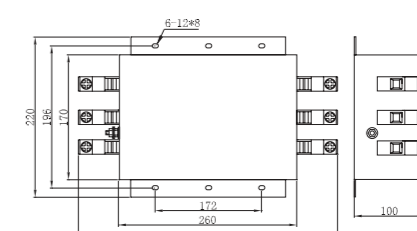



Fig.4

AC 3-Phase 4-Line Series Filters

Features & Applications

- Low leakage current, small size
- Three-phase with neutral line
- Widely used in machine tool device, inverter power supply, inverter equipment, industrial equipment, medical appliance and so on
- Safety approval: 







SP410 Series
ROHS

Technical data

Rated Voltage	250/440VAC		Rated Current@40°C	1A~250A
Test Voltage	line-line	2250VDC	Climatic Category	25/085/21
	line-neutral	1760VDC		
	line-ground	2700VDC	Operating Frequency	50/60Hz

Tabulates

Part No.	Rated current @40°C	Leakage current 250VAC/50Hz @20°C	Dimension	Termination		Weight (g)
						
SP410-6	6A	<2.0mA	Fig.1	M4		400
SP410-10	10A	<2.0mA	Fig.1	M4		400
SP410-20	20A	<2.0mA	Fig.2	M4	---	600
SP410-30	30A	<4.5mA	Fig.2	M6	---	600
SP410-40	40A	<4.5mA	Fig.3	M6	---	1000
SP410-50	50A	<4.5mA	Fig.4	M6	---	1500
SP410-80	80A	<8.0mA	Fig.5	M8	---	3100
SP410-100	100A	<8.0mA	Fig.5	M8	---	3100
SP410-150	150A	<8.0mA	Fig.5	M10	---	4000
SP410-200	200A	<20.0mA	Fig.5	M10	---	4000

Electrical schematics

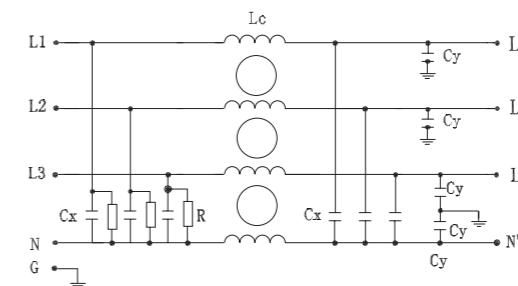
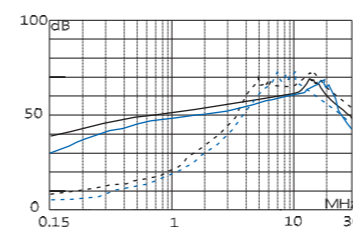


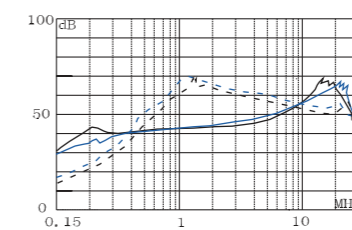
Fig.1

Insertion loss(dB)

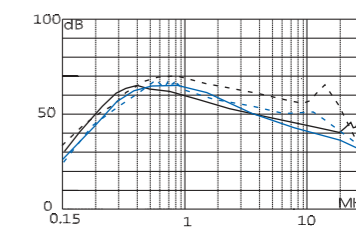
— common mode --- differential mode



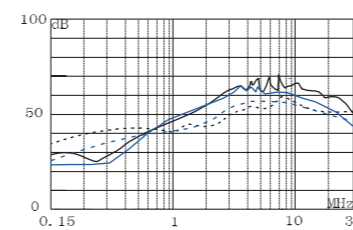
SP410-6 SP410-10



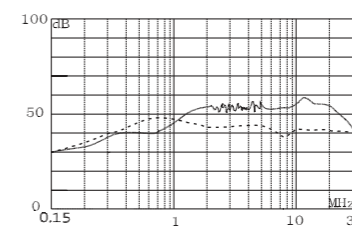
SP410-20 SP410-30



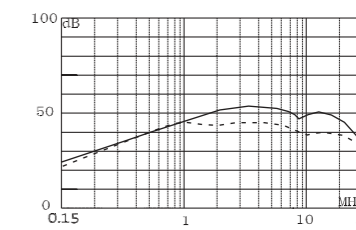
SP410-40 SP410-50



SP410-80 SP410-100



SP410-150



SP410-200

Outline drawing and dimensions(mm)

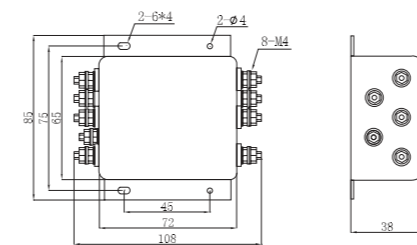


Fig.1

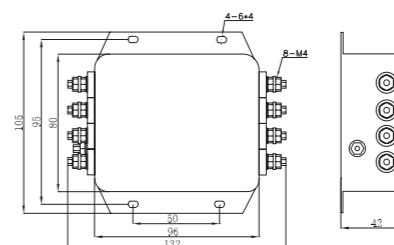


Fig.2

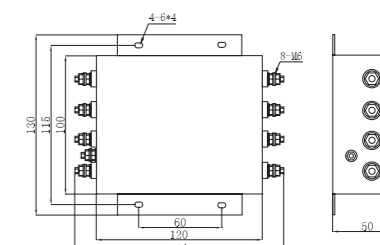


Fig.3

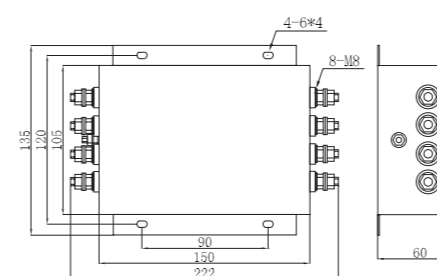


Fig.4

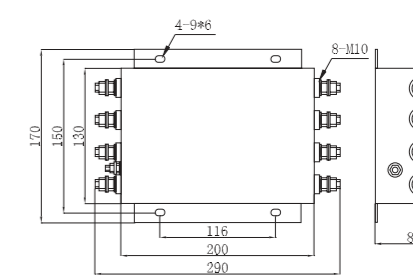



Fig.5

AC 3-Phase 4-Line Series Filters

Features & Applications

- Low leakage current, good performance of suppressing common mode and differential mode interference
- Three-phase with neutral line
- Widely used in machine tool device, inverter power supply, inverter equipment, industrial equipment, medical appliance and so on
- Safety approval: 




SP420/SP4200 Series

RoHS

Technical data

Rated Voltage	250/440VAC		Rated Current@40°C	1A~400A
Test Voltage	line-line	2250VDC	Climatic Category	25/085/21
	line-neutral	1760VDC		
	line-ground	2700VDC	Operating Frequency	50/60Hz

Tabulates

Part No.	Rated current @40°C	Leakage current 250VAC/50Hz @20°C	Dimension	Electrical schematics	Termination	Weight (g)
						
SP420-10	10A	<2.0mA	Fig.1	Fig.1	M4	1000
SP420-20	20A	<2.0mA	Fig.1	Fig.1	M4	1000
SP420-50	50A	<4.0mA	Fig.2	Fig.1	M6	3000
SP420-100	100A	<8.0mA	Fig.2	Fig.1	M8	4000
SP420-150	150A	<12.0mA	Fig.3	Fig.1	M10	5600
SP420-200	200A	<12.0mA	Fig.3	Fig.1	M10	5600
SP4200-6	6A	<2.0mA	Fig.4	Fig.2	M4	600
SP4200-10	10A	<2.0mA	Fig.4	Fig.2	M4	600
SP4200-20	20A	<4.0mA	Fig.1	Fig.2	M4	1000
SP4200-50	50A	<4.0mA	Fig.2	Fig.2	M6	3000

Electrical schematics

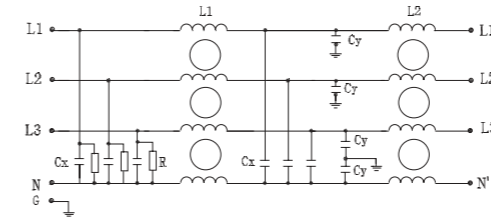


Fig.1

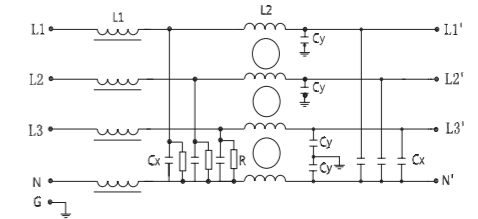
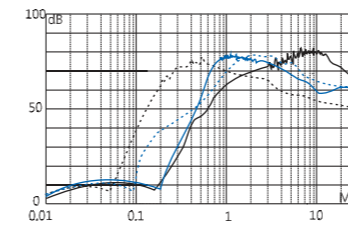


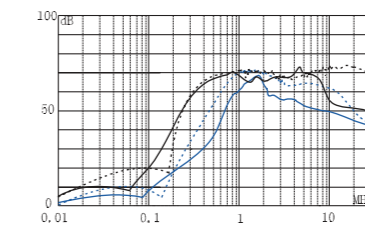
Fig.2

Insertion loss(dB)

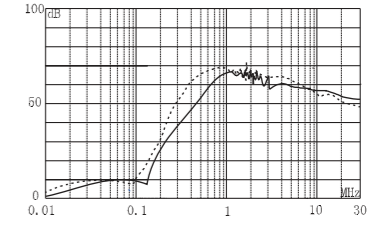
— common mode - - - - differential mode



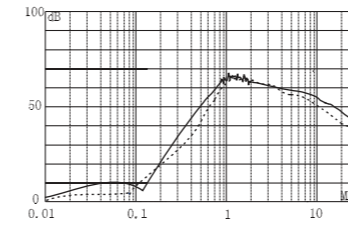
SP420-10 SP420-20



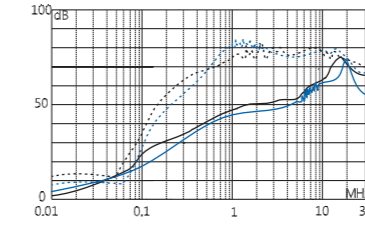
SP420-50 SP420-100



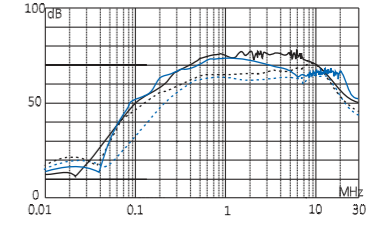
SP420-150



SP420-200



SP4200-6 SP4200-10



SP4200-20 SP4200-50

Outline drawing and dimensions(mm)

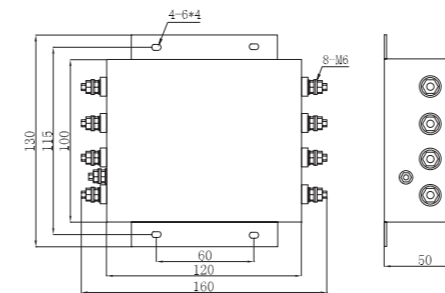


Fig.1

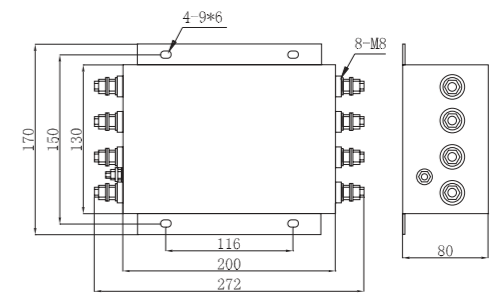


Fig.2

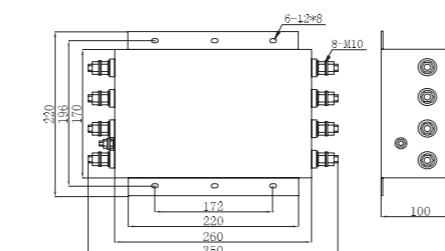


Fig.3

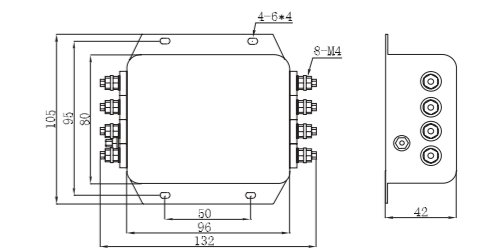



Fig.4

AC 3-Phase 4-Line Series Filters

Features & Applications

- Effectively suppress the interference at wide band ranging from 10KHz to 30MHz
- Three-phase with neutral line
- Widely used in machine tool device, inverter power supply, inverter equipment, industrial equipment, medical appliance and so on
- Safety approval: 




SP430 Series
RoHS

Technical data

Rated Voltage	250/440VAC		Rated Current@40°C	1A~400A
Test Voltage	line-line	2250VDC	Climatic Category	25/085/21
	line-neutral	1760VDC		
	line-ground	2700VDC	Operating Frequency	50/60Hz

Tabulates

Part No.	Rated current @40°C	Leakage current 250VAC/50Hz @20°C	Dimension	Termination	Weight (g)
					
SP430-6	6A	<8.0mA	Fig.1	M4	1000
SP430-10	10A	<8.0mA	Fig.1	M4	1000
SP430-25	25A	<8.0mA	Fig.2	M6	3100
SP430-30	30A	<8.0mA	Fig.2	M6	3100
SP430-40	40A	<8.0mA	Fig.2	M6	3100
SP430-50	50A	<8.0mA	Fig.2	M6	3100
SP430-60	60A	<8.0mA	Fig.2	M6	3100
SP430-80	80A	<16.0mA	Fig.3	M8	6900
SP430-100	100A	<16.0mA	Fig.3	M8	6900
SP430-120	120A	<16.0mA	Fig.4	M8	11000
SP430-150	150A	<16.0mA	Fig.4	M10	11000
SP430-200	200A	<24.0mA	Fig.4	M10	11000

Electrical schematics

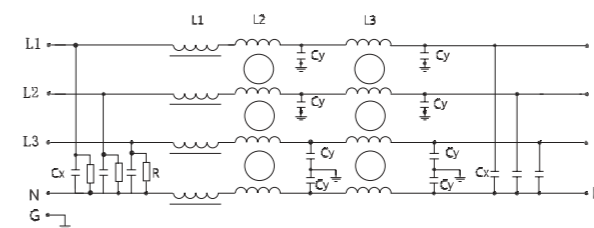
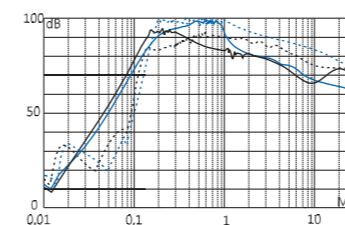


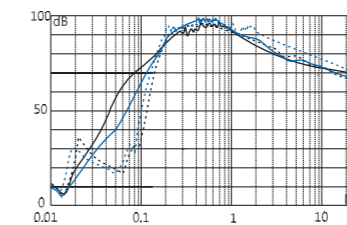
Fig.1

Insertion loss(dB)

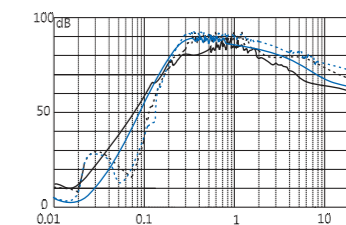
— common mode ——— differential mode



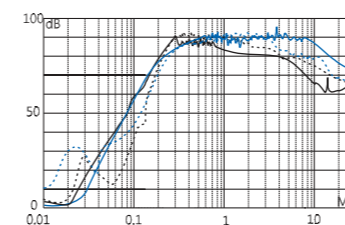
SP430-6 SP430-10



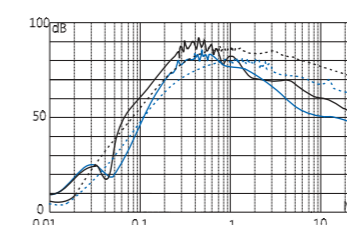
SP430-25 SP430-30



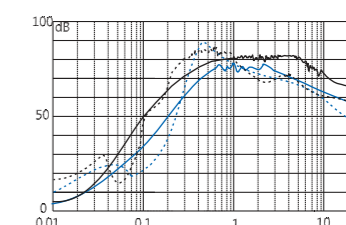
SP430-40 SP430-50



SP430-60 SP430-80



SP430-100 SP430-120



SP430-150 SP430-200

Outline drawing and dimensions(mm)

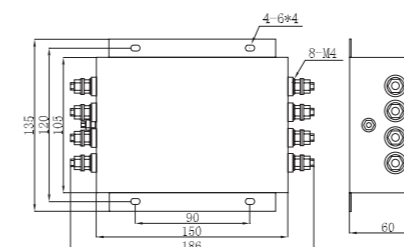


Fig.1

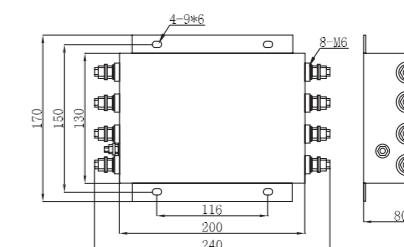


Fig.2

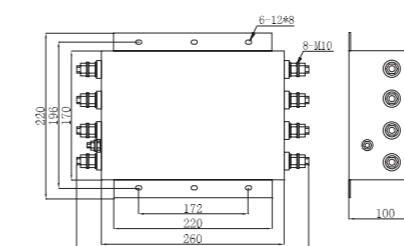


Fig.3

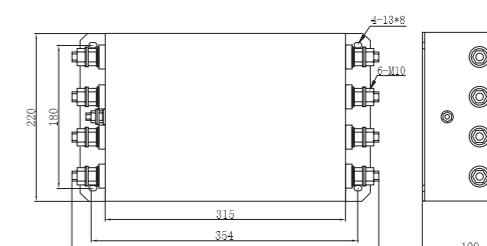



Fig.4

Inverter Series Filters


Features & Applications

- Specially designed based on the frequency-domain characterization of interference generated by inverter input towards electric network and other digital equipments
- Good performance of suppressing common mode and differential mode interference, effectively suppress the conducted interference from inverter
- Various connection ways, protective covers and terminal block terminals optional
- Suitable for working place with strict requirement of environment
- Safety approval: 

Technical data

Rated Voltage	250/440VAC		Rated Current@40°C	6A~1200A
Test Voltage	line-line	2250VDC	Climatic Category	25/085/21
	line-ground	2700VDC	Operating Frequency	50/60Hz

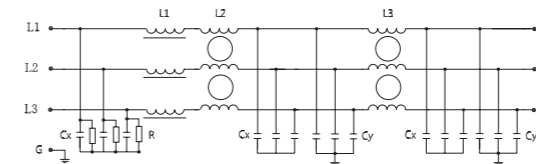
Tabulates

Part No.	Rated current @40°C	Leakage current 250VAC/50Hz @20°C	Inverter capacity (KVA)	Dimension	Termination		Weight (g)
							
SP330-6	6A	<7.5mA	1.5	Fig.1	M4	---	1450
SP330-10	10A	<7.5mA	3.0	Fig.1	M4	---	1450
SP330-15	15A	<7.5mA	5.5	Fig.1	M4	---	1500
SP330-20	20A	<7.5mA	7.5	Fig.1	M4	---	1500
SP330-25	25A	<7.5mA	11.0	Fig.2	M6	---	3100
SP330-30	30A	<7.5mA	15.0	Fig.2	M6	---	3100
SP330-40	40A	<13.0mA	18.5	Fig.2	M6	---	3300
SP330-50	50A	<13.0mA	22.0	Fig.2	M6	---	3600
SP330-65	65A	<13.0mA	30.0	Fig.2	M6	---	3600
SP330-80	80A	<40.0mA	37.0	Fig.3	M8	---	6600
SP330-100	100A	<40.0mA	45.0	Fig.3	M8	---	6630
SP330-120	120A	<40.0mA	55.0	Fig.3	M8	---	6650
SP330-150	150A	<50.0mA	75.0	Fig.3	M10	---	6950
SP330-200	200A	<50.0mA	95.0	Fig.4	M10	---	11000
SP330-300	300A	<45.0mA	110/132	Fig.5	---	○	14000
SP330-400	400A	<45.0mA	160	Fig.5	---	○	14000
SP330-500	500A	<60.0mA	200	Fig.3	---	○	18000
SP330-630	630A	<60.0mA	315	Fig.6	---	○	18000
SP330-800	800A	<90.0mA	375	Fig.6	---	○	21700
SP330-1000	1000A	<90.0mA	450	Fig.6	---	○	21700



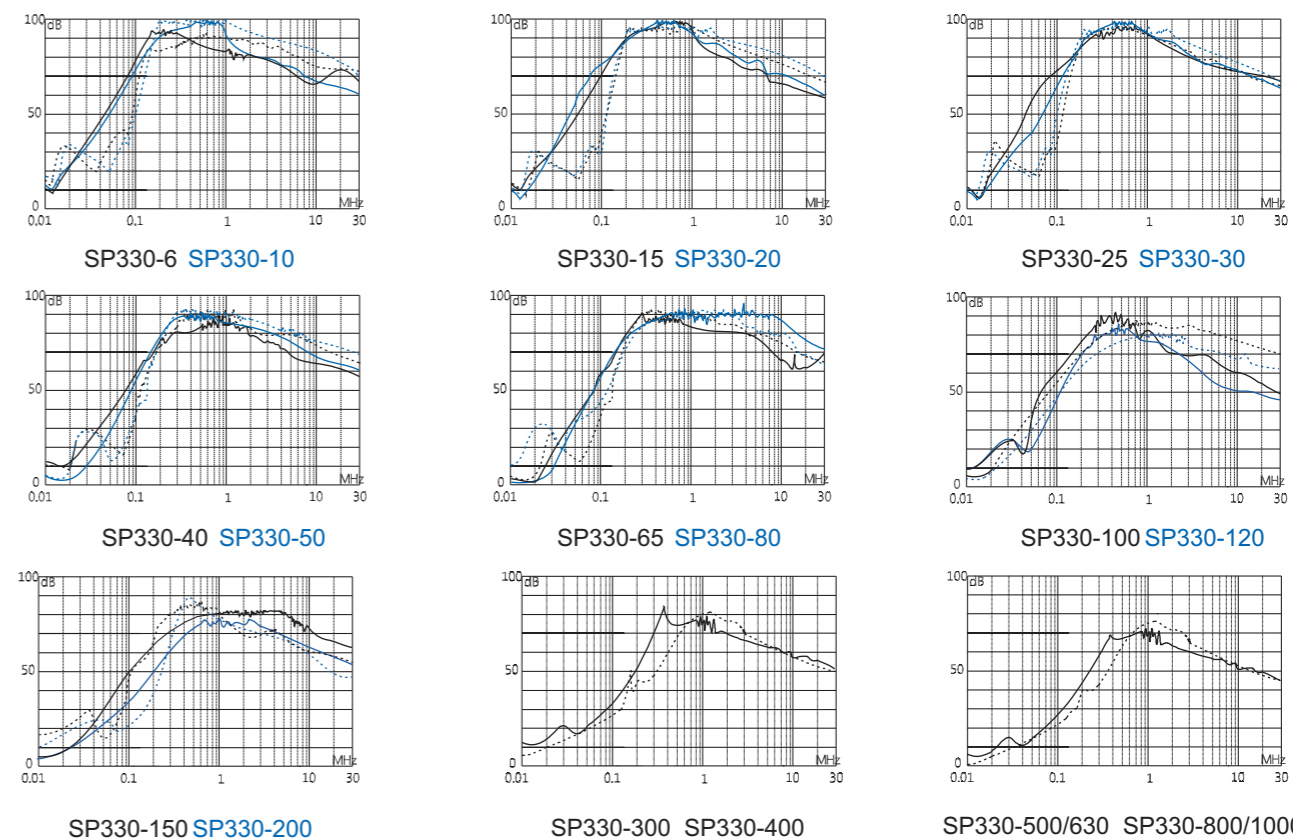
SP330 Series
ROHS

Electrical schematics

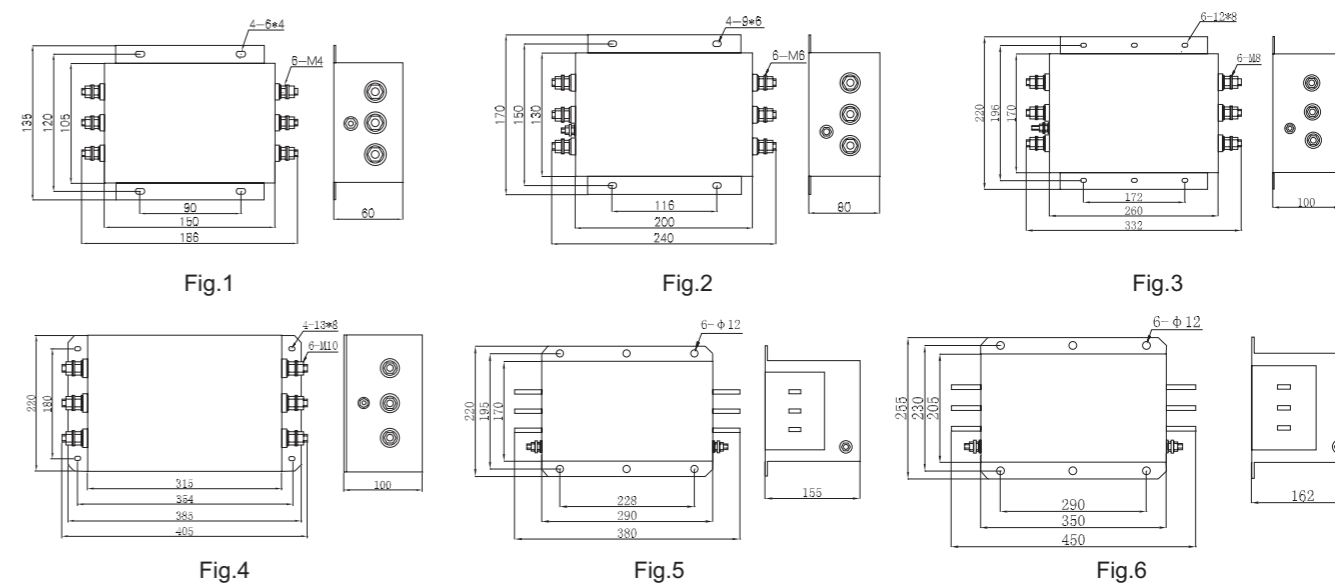


Insertion loss(dB)

— common mode ---- differential mode




Outline drawing and dimensions(mm)



Inverter Series Filters

Working principle graph

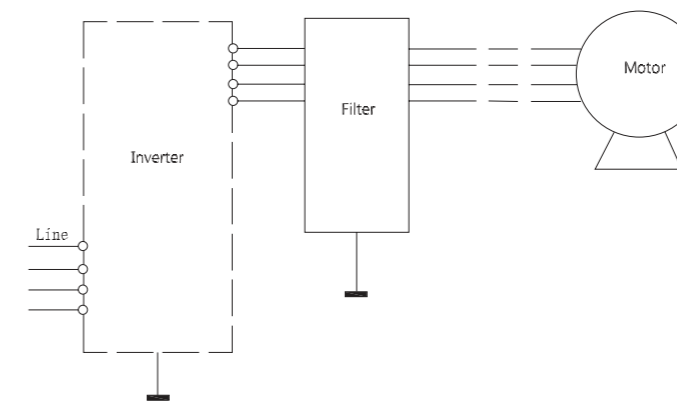
Features & Applications

- Specially designed based on the frequency-domain characterization of interference generated by inverter output to load
- Effectively reduce the interference generated by inverter output
- Various connection ways, protective covers and terminal block terminals optional
- Safety approval: 



SP330T Series

RoHS





Technical data

Rated Voltage	250/440VAC		Rated Current@40°C	6A~1200A
Test Voltage	line-line	2250VDC	Climatic Category	25/085/21
	line-ground	2700VDC	Operating Frequency	50/60Hz

Outline drawing and dimensions(mm)

Tabulates

Part No.	Rated current @40°C	Inverter capacity (KVA)	Dimension	Termination		Weight (g)
						
SP330T-6	6A	1.5	Fig.1	M4	---	1200
SP330T-10	10A	3.0	Fig.1	M4	---	1200
SP330T-15	15A	5.5	Fig.1	M4	---	1300
SP330T-20	20A	7.5	Fig.2	M4	---	1700
SP330T-25	25A	11.0	Fig.2	M6	---	1800
SP330T-30	30A	15.0	Fig.2	M6	---	1800
SP330T-40	40A	18.5	Fig.2	M6	---	1800
SP330T-50	50A	22.0	Fig.3	M6	---	3200
SP330T-65	65A	30.0	Fig.3	M6	---	3200
SP330T-80	80A	37.0	Fig.3	M8	---	3500
SP330T-100	100A	45.0	Fig.3	M8	---	3500
SP330T-120	120A	55.0	Fig.4	M8	---	6500
SP330T-150	150A	75.0	Fig.4	M10	---	6700
SP330T-200	200A	95.0	Fig.5	M10	---	11000
SP330T-300	300A	110/132	Fig.6	---	○	13500
SP330T-400	400A	160	Fig.6	---	○	13500
SP330T-500	500A	200	Fig.7	---	○	21000
SP330T-630	630A	315	Fig.7	---	○	21000
SP330T-800	800A	375	Fig.7	---	○	21000
SP330T-1000	1000A	450	Fig.7	---	○	21000

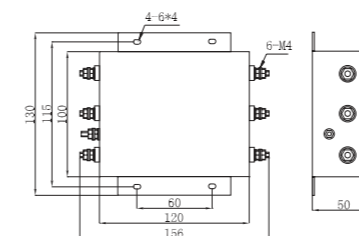


Fig.1

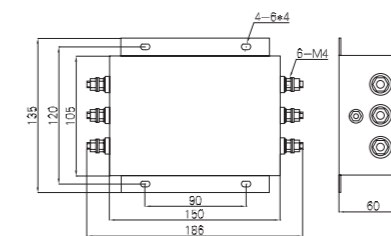


Fig.2

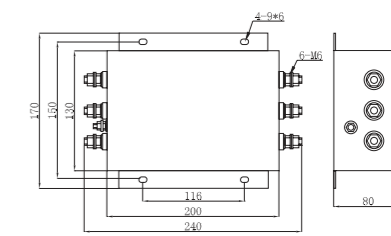


Fig.3

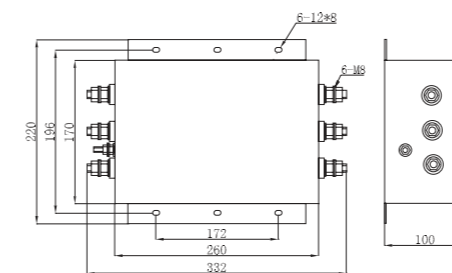


Fig.4

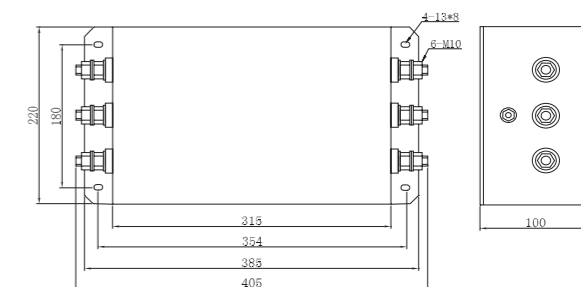


Fig.5

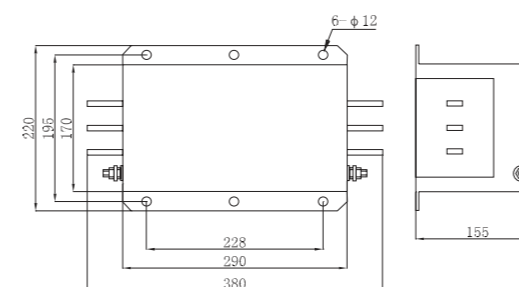


Fig.6

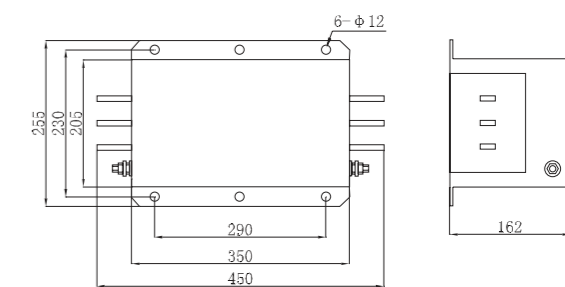



Fig.7

IEC Socket Series Filters

Features & Applications

- Specially designed for IEC standard connector
- Small size, compact structure, easy to install and cost-effective
- Medical appliances optional
- Safety approval: 






SP110I Series

RoHS

Technical data

Rated Voltage	110/250VAC		Rated Current@40°C	0.5A~16A
Test Voltage	line-line	1500VDC	Climatic Category	25/085/21
	line-ground	1500VAC	Operating Frequency	50/60Hz

Tabulates

Part No.	Rated current @40°C	Leakage current 250VAC/50Hz @20°C	Dimension	Electrical schematics	Termination			Weight (g)
								
SP110I-1	1A	<0.5mA	Fig.1	Fig.1	○	---	---	45
SP110I-3	3A	<0.5mA	Fig.1	Fig.1	○	---	---	45
SP110I-6	6A	<0.5mA	Fig.1	Fig.1	○	---	---	46
SP110I-10	10A	<0.5mA	Fig.1	Fig.1	○	---	---	47
SP110I-15	15A	<3.0mA	Fig.2	Fig.1	---	○	---	355
SP110I-16	16A	<3.5mA	Fig.3	Fig.1	---	---	○	355

Electrical schematics

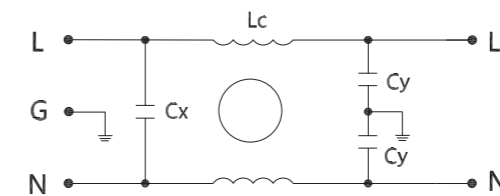
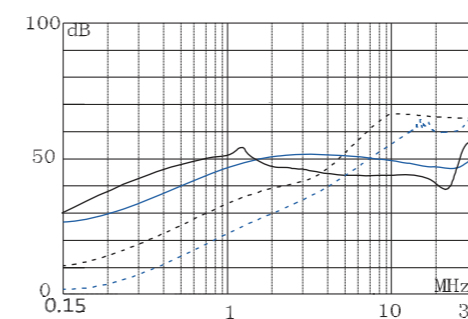


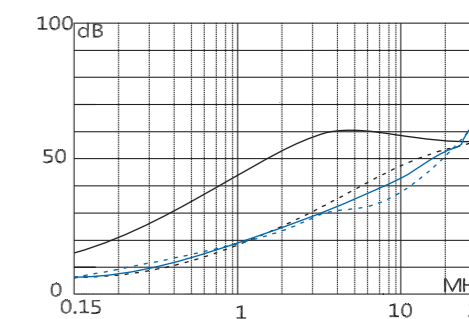
Fig.1

Insertion loss(dB)

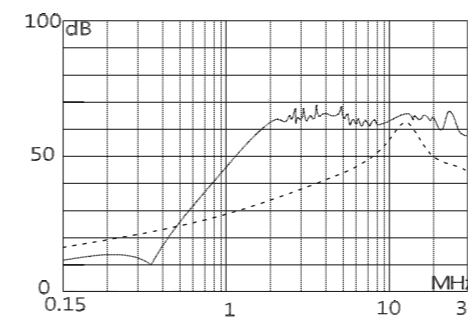
— common mode ---- differential mode



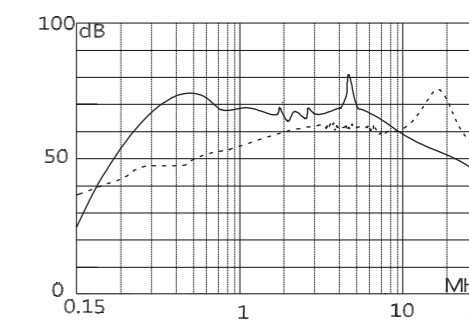
SP110I-1 SP110I-3



SP110I-6 SP110I-10



SP110I-15



SP110I-16

Outline drawing and dimensions(mm)

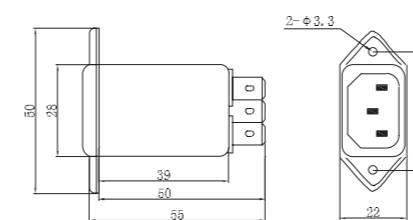


Fig.1

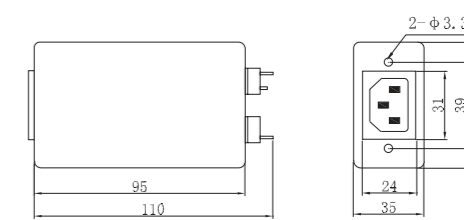


Fig.2

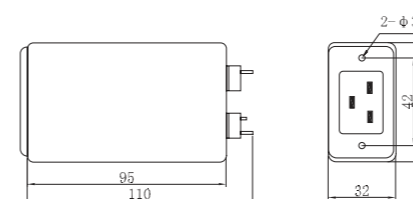



Fig.3

IEC Socket Series Filters

Features & Applications

- Specially designed for IEC standard connector
- One or two fuses can be installed
- Safe and reliable, easy to install and cost-effective
- Medical appliances optional
- Safety approval: 




SP110-A/C Series
RoHS

Technical data

Rated Voltage	110/250VAC		Rated Current@40°C	0.5A~10A
Test Voltage	line-line	1500VDC	Climatic Category	25/085/21
	line-ground	1500VAC	Operating Frequency	50/60Hz

Tabulates

Part No.	Rated current @40°C	Leakage current 250VAC/50Hz @20°C	Dimension	Electrical schematics	Termination	Weight (g)
						
SP110-1-A	1A	<0.5mA	Fig.1	Fig.1	○	50
SP110-3-A	3A	<0.5mA	Fig.1	Fig.1	○	50
SP110-6-A	6A	<0.5mA	Fig.1	Fig.1	○	52
SP110-10-A	10A	<0.5mA	Fig.1	Fig.1	○	55
SP110-1-C	1A	<0.5mA	Fig.2	Fig.2	○	50
SP110-3-C	3A	<0.5mA	Fig.2	Fig.2	○	50
SP110-6-C	6A	<0.5mA	Fig.2	Fig.2	○	53
SP110-10-C	10A	<0.5mA	Fig.2	Fig.2	○	56

Electrical schematics

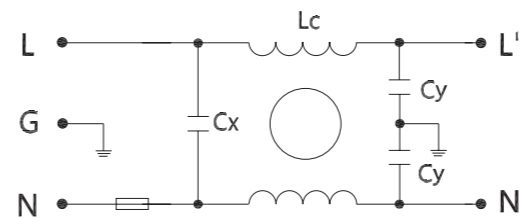


Fig.1

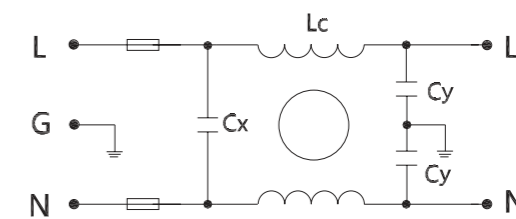
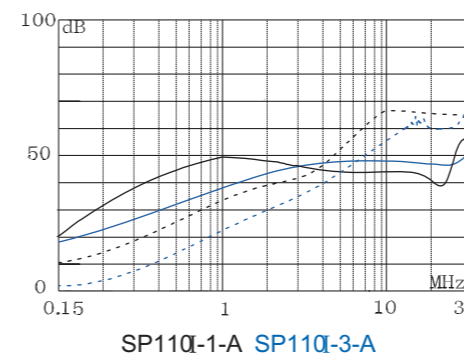


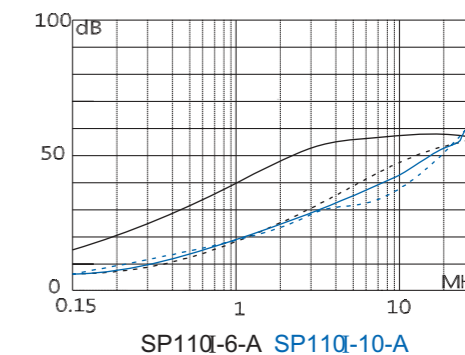
Fig.2

Insertion loss(dB)

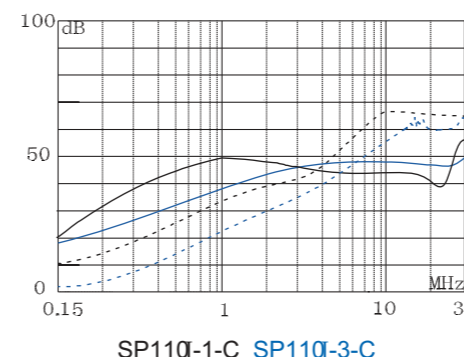
— common mode - - - - differential mode



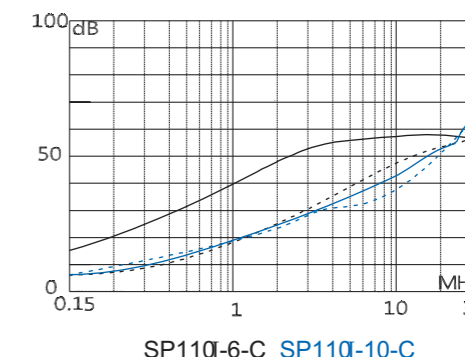
SP110-1-A SP110-3-A



SP110-6-A SP110-10-A



SP110-1-C SP110-3-C



SP110-6-C SP110-10-C

Outline drawing and dimensions(mm)

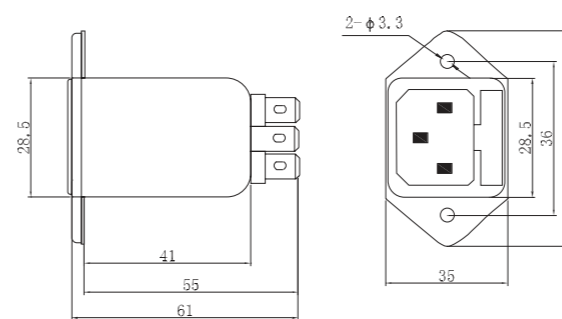


Fig.1

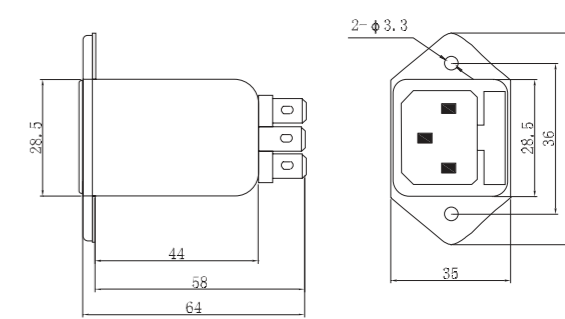



Fig.2

IEC Socket Series Filters

Electrical schematics

Features & Applications

- Specially designed for IEC standard connector
- With one fuse and swith control
- Safe and reliable, easy to install and cost-effective
- Medical appliances optional
- Safety approval: 



SP110-B Series
RoHS

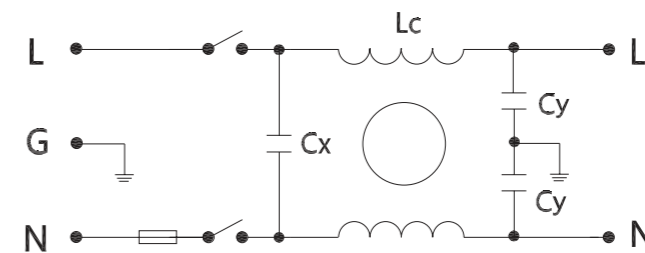


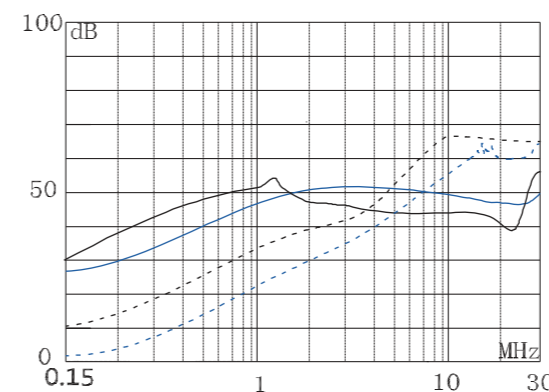
Fig.1

Technical data

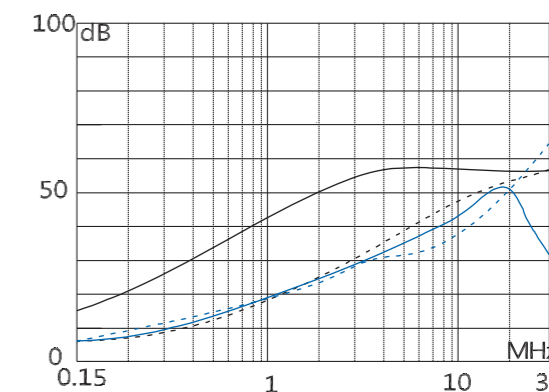
Rated Voltage	110/250VAC		Rated Current@40°C	0.5A~10A
Test Voltage	line-line	1500VDC	Climatic Category	25/085/21
	line-ground	1500VAC	Operating Frequency	50/60Hz

Insertion loss(dB)

— common mode - - - - differential mode




SP110-1-B SP110-3-B



SP110-6-B SP110-10-B

Tabulates

Outline drawing and dimensions(mm)

Part No.	Rated current @40°C	Leakage current 250VAC/50Hz @20°C	Dimension	Electrical schematics	Termination	Weight (g)
						
SP110-1-B	1A	<0.5mA	Fig.1	Fig.1	○	60
SP110-3-B	3A	<0.5mA	Fig.1	Fig.1	○	60
SP110-6-B	6A	<0.5mA	Fig.1	Fig.1	○	62
SP110-10-B	10A	<0.5mA	Fig.1	Fig.1	○	65

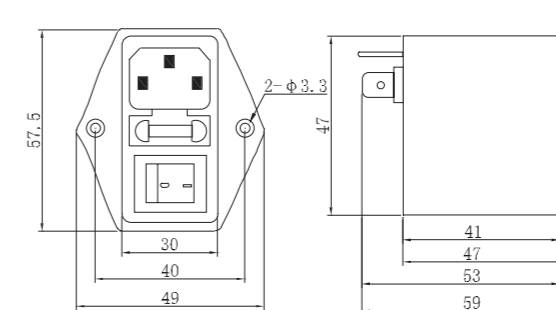



Fig.1

PCB Series Filters

Features & Applications

- Effectively suppress the noise interference on line to line and line to ground
- Plastic or metal cover, specially designed for PCB
- Small size, compact structure, easy to install and cost-effective
- Suitable for exchange machine, alarm, controller, LCD, satellite TV system and other ultra-small devices
- Safety approval: 



AC PCB Series Filters

ROHS

Technical data

Rated Voltage	110/250VAC		Rated Current@40°C	0.5A~6A
Test Voltage	line-line	1500VDC	Climatic Category	25/085/21
	line-ground	1500VAC	Operating Frequency	50/60Hz

Tabulates

Part No.	Rated current @40°C	Leakage current 250VAC/50Hz @20°C	Dimension	Electrical schematics	Termination	Weight (g)
SP110P-0.5	0.5A	<0.5mA	Fig.1	Fig.1		35
SP110P-1	1A	<0.5mA	Fig.1	Fig.1		35
SP110P-3	3A	<0.5mA	Fig.1	Fig.1		35
SP110P-6	6A	<0.5mA	Fig.1	Fig.1		35
SP120P-1	1A	<0.5mA	Fig.2	Fig.2		40
SP120P-3	3A	<0.5mA	Fig.2	Fig.2		40
SP1200P-1	1A	<0.5mA	Fig.3	Fig.3		75
SP1200P-3	3A	<0.5mA	Fig.3	Fig.3		75

Electrical schematics

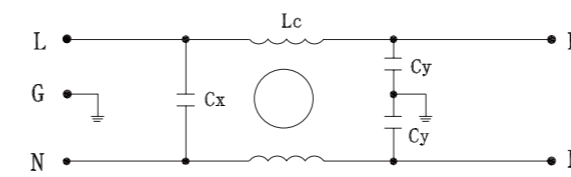


Fig.1

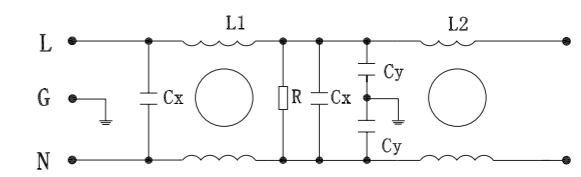


Fig.2

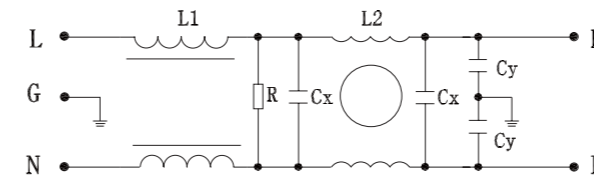
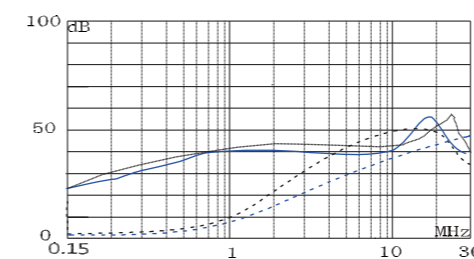


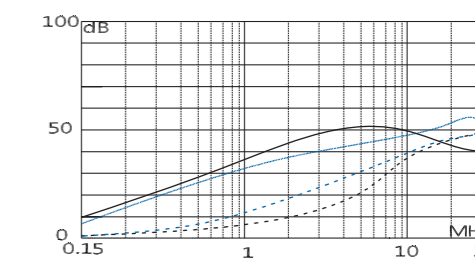
Fig.3

Insertion loss(dB)

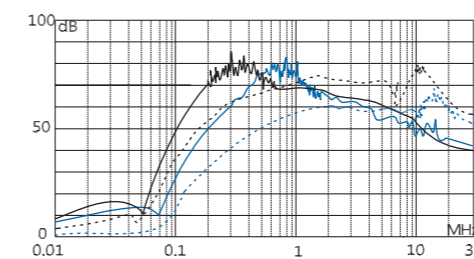


SP110P-0.5 SP110P-1

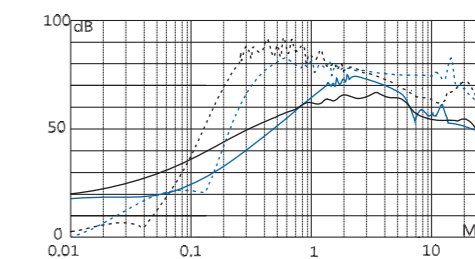
— common mode ---- differential mode



SP110P-3 SP110P-6



SP120P-1 SP120P-3



SP1200P-1 SP1200P-3

Outline drawing and dimensions(mm)

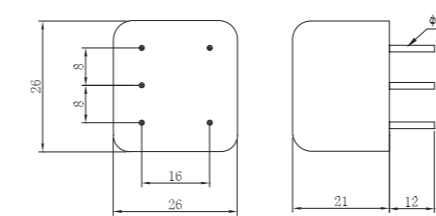


Fig.1

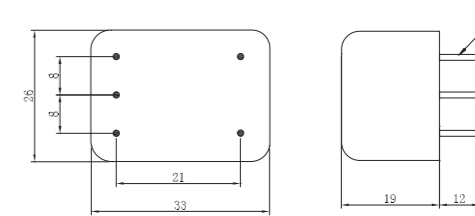


Fig.2

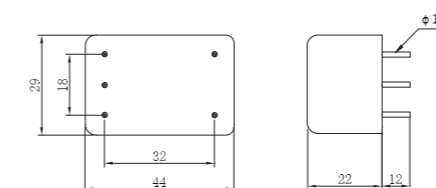



Fig.3

PCB Series Filters

Features & Applications

- DC filters with good performance of suppressing noise interference on line to line and line to ground
- Plastic or metal cover, specially designed for PCB
- Small size, compact structure, easy to install and cost-effective
- Suitable for DC miniature electronic equipments
- Safety approval: 



DC PCB Series Filters
RoHS

Technical data

Rated Voltage	24VDC~250VDC	Rated Current@40°C	0.5A~6A
Operating Frequency	DC	Climatic Category	25/085/21

Tabulates

Part No.	Rated current @40°C	Dimension	Electrical schematics	Termination	Weight (g)
SP110PD-0.5	0.5A	Fig.1	Fig.1		35
SP110PD-1	1A	Fig.1	Fig.1		35
SP110PD-3	3A	Fig.1	Fig.1		35
SP110PD-6	6A	Fig.1	Fig.1		35
SP120PD-1	1A	Fig.2	Fig.2		40
SP120PD-3	3A	Fig.2	Fig.2		40
SP1200PD-1	1A	Fig.3	Fig.3		75
SP1200PD-3	3A	Fig.3	Fig.3		75

Electrical schematics

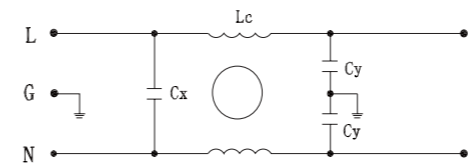


Fig.1

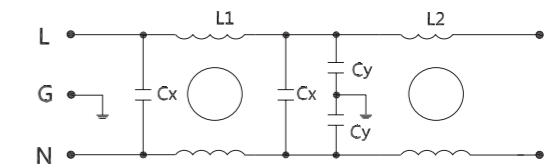


Fig.2

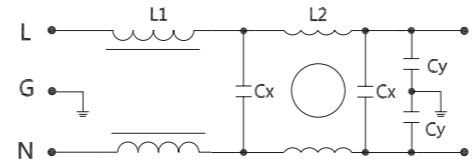
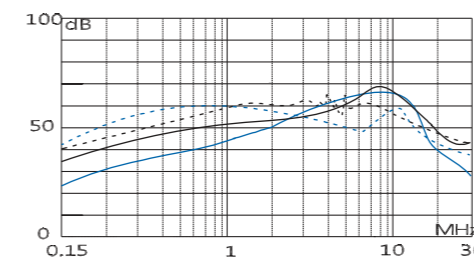


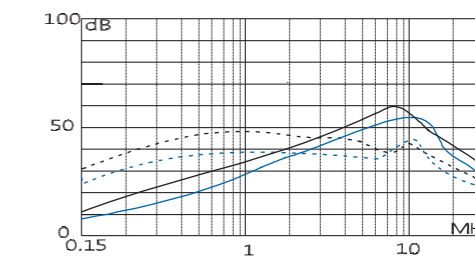
Fig.3

Insertion loss(dB)

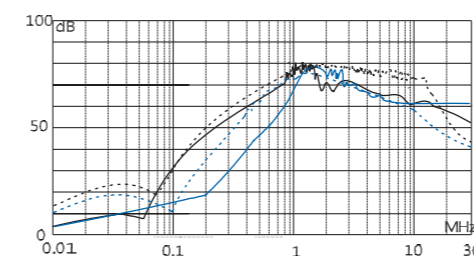
— common mode ---- differential mode



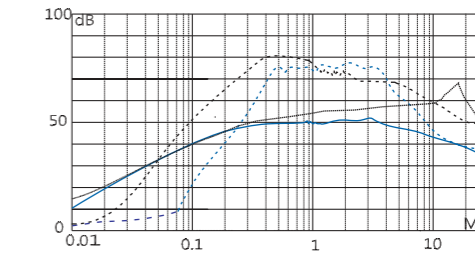
SP110PD-0.5 SP110PD-1



SP110PD-3 SP110PD-6



SP120PD-1 SP120PD-3



SP1200PD-1 SP1200PD-3

Outline drawing and dimensions(mm)

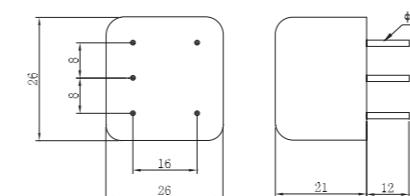


Fig.1

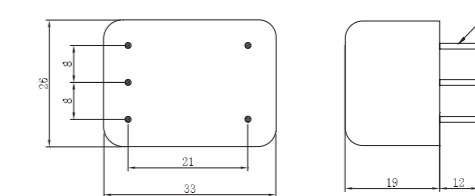


Fig.2

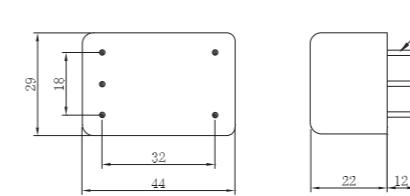

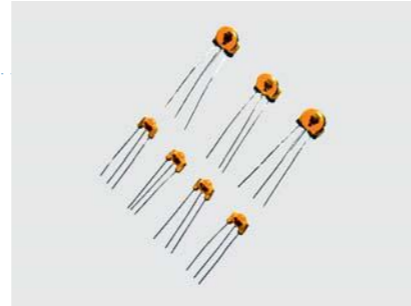


Fig.3

PCB Series Filters

Features & Applications

- Integrated LCR DC filters with three output terminals
- Effectively suppress the interference at wide band ranging from 100KHz to 1GHz
- Maximum operating current: 6A
- Suitable for all kinds of digital circuits, chip controlling, etc., and can effectively prohibit malfunction and system crash
- Safety approval: 



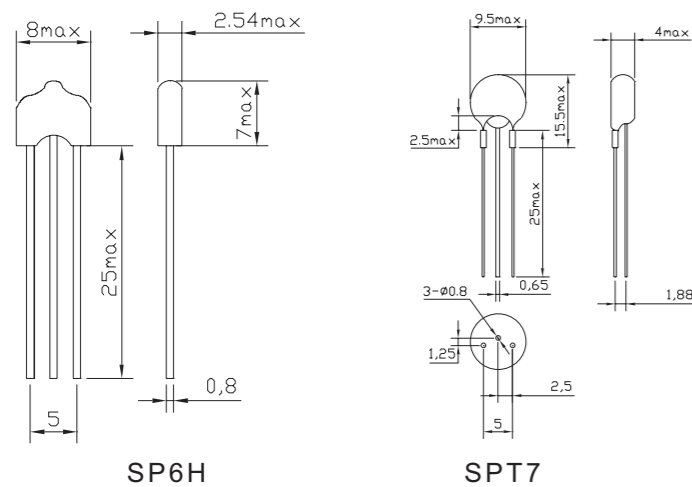
Microminiature PCB 3-Terminal Series DC Filters

RoHS

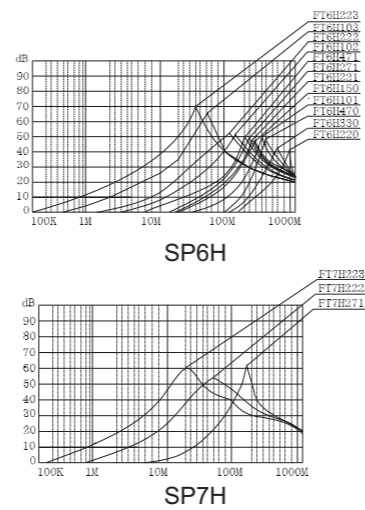
Tabulates

Part No.	Capacity (PF)	Rated Voltage	Temperature Characteristics
SP6H220	22PF±20%	100VDC	±10%
SP6H470	47PF±20%	100VDC	±10%
SP6H101	100PF±20%	100VDC	±10%
SP6H221	220PF±20%	100VDC	±10%
SP6H271	270PF±20%	100VDC	±10%
SP6H471	470PF±20%	100VDC	±10%
SP6H102	1000PF±20%	100VDC	±10%
SP6H222	2200PF+80%/-20%	100VDC	+20%/-55%
SP6H103	10000PF±30%	100VDC	+30%/-85%
SP6H223	22000PF+80%/-20%	16VDC	+30%/-80%
SP7H223	22000PF+50%/-20%	50VDC	±10%
SP7H222	2200PF±20%	250VDC	±10%
SP7H271	270PF±20%	250VDC	±10%

Outline drawing and dimensions(mm)




Insertion loss(dB)



Household Appliance Series Filters

Features & Applications

- Low leakage current, good attenuation effect, high security and reliability
- Plastic cover, easy to install
- Specially designed for household appliances, highly cost-effective
- Safety approval: 









SP116/SP117/SP118 Series

RoHS

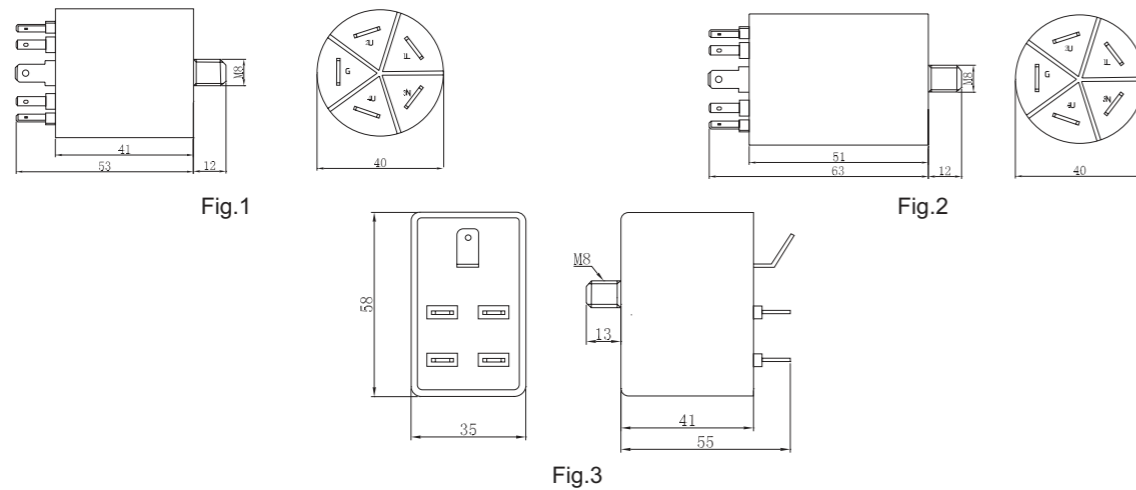
Technical data

Rated Voltage	110/250VAC		Rated Current@40°C	6A~16A
Test Voltage	line-line	1500VDC	Climatic Category	25/085/21
	line-ground	1500VAC	Operating Frequency	50/60Hz

Tabulates


Part No.	Rated current@40°C	Leakage current 250VAC/50Hz	Dimension	Termination	Weight (g)
SP116-6	6A	<0.5mA	Fig.1		100
SP116-10	10A	<0.5mA	Fig.1		100
SP117-10	10A	<1.0mA	Fig.2		130
SP117-16	16A	<1.0mA	Fig.2		130
SP118-10	10A	<0.5mA	Fig.3		145
SP118-16	16A	<0.5mA	Fig.3		145

Outline drawing and dimensions(mm)



Medical Appliance Series Filters

Features & Applications

- Specially designed for medical appliances
- Effectively solve the interference of all kinds of medical appliances
- Extremely low leakage current
- Small size, compact structure, easy to install
- Safety approval: 







SP110PH/SP110H/SP110H/SP411F Series

RoHS

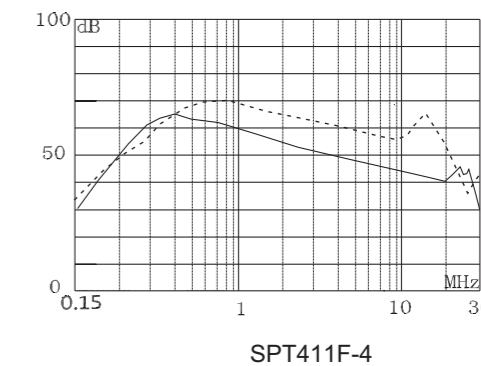
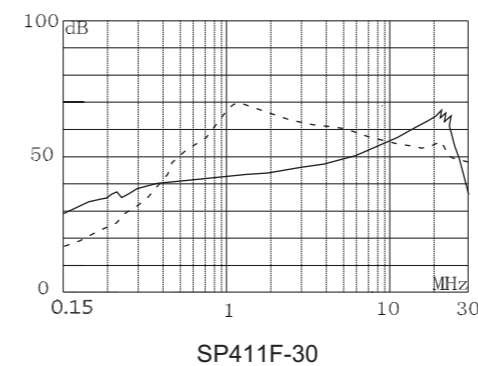
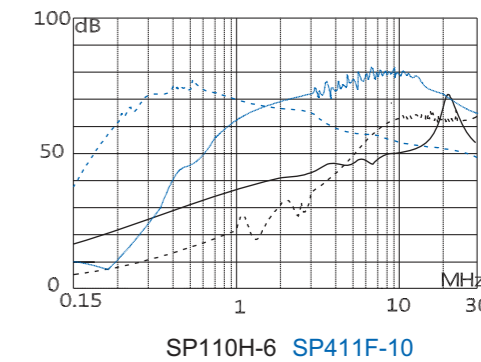
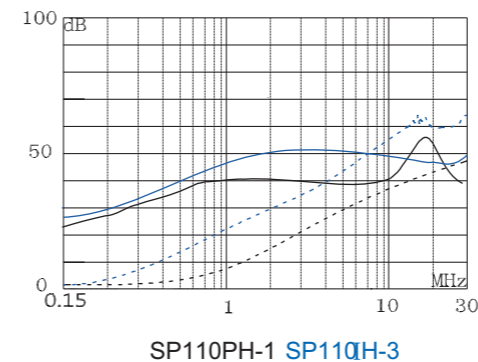
Technical data

Item	Product Name	AC Single Phase Medical Appliance Filters	AC 3-Phase 4-Line Medical Appliance Filters
Rated Voltage		110/250VAC	250/440VAC
Test Voltage	line-line	1760VDC	2250VDC
	line-neutral	/	1760VDC
	line-ground	2000VAC	2700VDC
Rated Current @40°C		0.5A~200A	0.5A~200A
Climatic Category		25/085/21	25/085/21
Operating Frequency		50/60Hz	50/60Hz

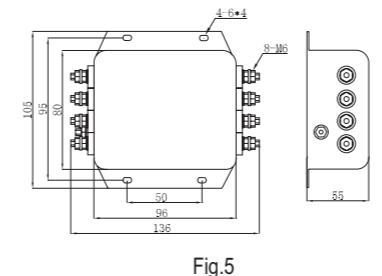
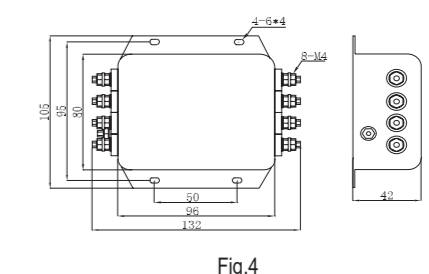
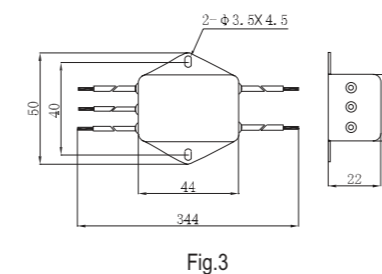
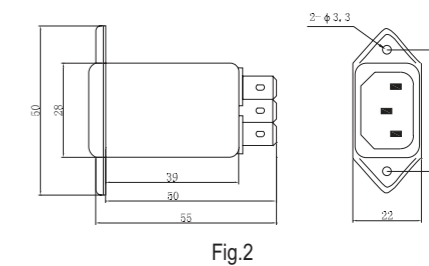
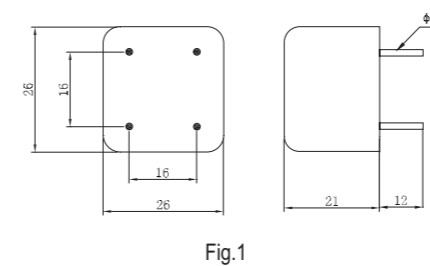
Tabulates

Part No.	Rated current @40°C	Dimension	Termination				Weight (g)
							
SP110PH-1	1A	Fig.1	○	---	---	---	35
SP110H-3	3A	Fig.2	---	○	---	---	45
SP110H-6	6A	Fig.3	---	---	○	---	65
SP411F-10	10A	Fig.4	---	---	---	M4	600
SP411F-30	30A	Fig.5	---	---	---	M6	700
SP411F-40	40A	Fig.5	---	---	---	M6	800

Insertion loss(dB)
— common mode --- differential mode




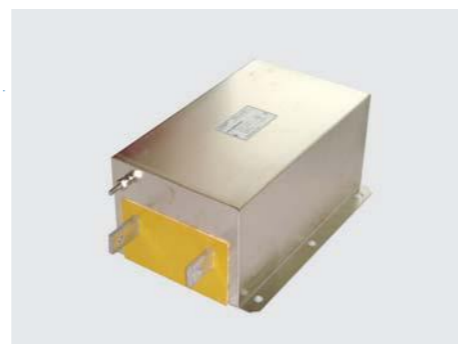
Outline drawing and dimensions(mm)



PV Inverter Series Filters

Features & Applications

- Effectively solve the electromagnetic interference problems between solar panel and inverter
- Reduce the electromagnetic interference between solar panel and inverter to each other
- Prevent the radiation emission of solar panel
- Significantly improve the service life of solar panel
- Reduce the electromagnetic interference of inverter towards solar panel
- Help PV system to comply with related EMC standards
- Safety approval: 





SP130FD Series

RoHS

Technical data

Rated Voltage	1000VDC	Rated Current@40°C	1A~1200A
		Climatic Category	25/085/21

Tabulates

Part No.	Rated current @40°C	Dimension	Termination		Weight (g)
					
SP130FD-65	65A	Fig.1	M6	---	3300
SP130FD-150	150A	Fig.1	M10	---	3600
SP130FD-630	630A	Fig.2	---	○	18000
SP130FD-1200	1200A	Fig.2	---	○	21700

Outline drawing and dimensions(mm)

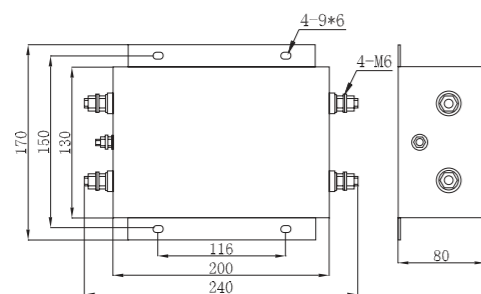


Fig.1

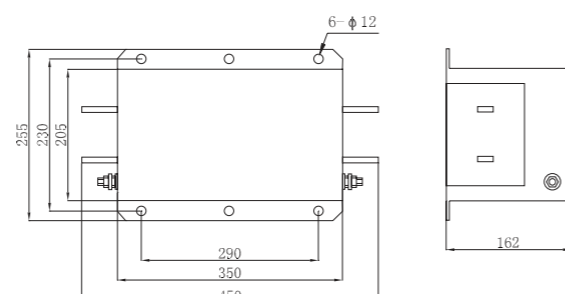



Fig.2

PV Inverter Series Filters

Features & Applications

- AC three-phase filters used in all grid-tied inverter systems to protect environment from electromagnetic pollution
- Prevention of the electromagnetic interference of inverter towards controller and solar panel
- Prevention of the electromagnetic interference of inverter towards grid-tied equipments
- Effectively get rid of the electromagnetic pollution of the output current of inverter, guarantee the quality of grid current
- Effectively get rid of the radiated interference of solar panel towards inverter and controller
- Greatly improve system reliability and efficiency
- Safety approval: 





SP330FW Series

RoHS

Technical data

Rated Voltage	250/440VAC	Rated Current@40°C	1A~1200A
		Climatic Category	25/085/21

Tabulates

Part No.	Rated current @40°C	Leakage current 250VAC/50Hz @20°C	Dimension	Termination		Weight (g)
						
SP330FW-80	80A	<50mA	Fig.1	M8	---	6600
SP330FW-150	150A	<50mA	Fig.1	M10	---	7000
SP330FW-400	400A	<50mA	Fig.2	---	○	14000
SP330FW-630	630A	<50mA	Fig.3	---	○	21000
SP330FW-1000	1000A	<80mA	Fig.3	---	○	22000

Outline drawing and dimensions(mm)

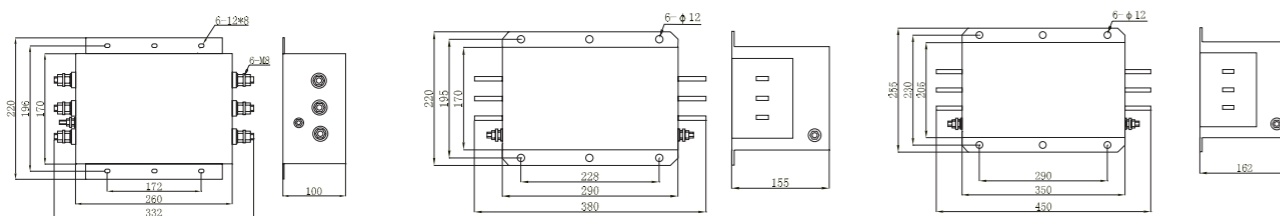



Fig.1

Fig.2

Fig.3

AC High-Voltage Series Filters

Features & Applications

- Specially designed AC high-voltage filters, good performance of suppressing common mode and differential mode interference
- Excellent attenuation effect, suitable for switching power supply, fuel dispenser, UPS as well as other automation equipments and so on
- Safety approval: 





SP110F/SP121F Series

ROHS

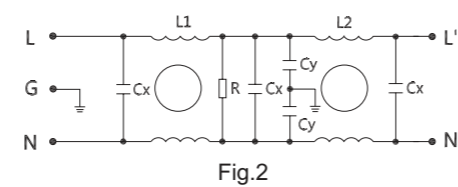
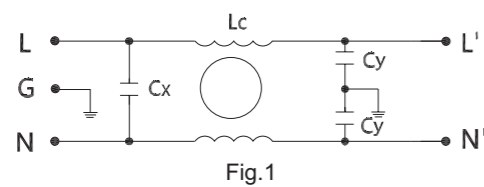
Technical data

Rated Voltage	380VAC		Rated Current@40°C	1A~250A
Test Voltage	line-line	1760VDC	Climatic Category	25/085/21
	line-ground	2000VAC	Operating Frequency	50/60Hz

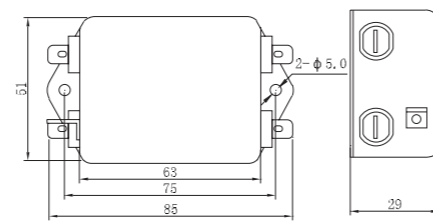
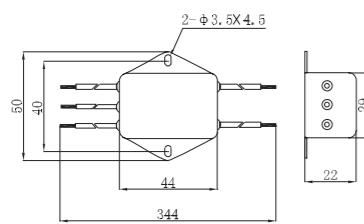
Tabulates

Part No.	Rated current @40°C	Leakage current 250VAC/50Hz @20°C	Dimension	Electrical schematics	Termination		Weight (g)
							
SP110F-3	3A	<0.5mA	Fig.1	Fig.1	---	○	65
SP110F-6	6A	<0.5mA	Fig.1	Fig.1	---	○	65
SP121F-3	3A	<0.5mA	Fig.2	Fig.2	○	---	170
SP121F-6	6A	<0.5mA	Fig.2	Fig.2	○	---	170

Electrical schematics




Outline drawing and dimensions(mm)



AC High-Voltage Series Filters

Features & Applications

- Specially designed AC high-voltage filters, good performance of suppressing common mode and differential mode interference
- Excellent attenuation effect, suitable for switching power supply, fuel dispenser, UPS as well as other automation equipments and so on
- Safety approval: 




SP320F/SP330F Series

RoHS

Technical data

Rated Voltage	660VAC		Rated Current@40°C	1A~1200A
Test Voltage	line-line	2250VDC	Climatic Category	25/085/21
	line-ground	2700VDC	Operating Frequency	50/60Hz

Tabulates

Part No.	Rated current @40°C	Leakage current 250VAC/50Hz @20°C	Dimension	Electrical schematics	Termination	Weight (g)
						
SP320F-20	20A	<4.0mA	Fig.1	Fig.1	M4	1000
SP320F-50	50A	<7.0mA	Fig.2	Fig.1	M6	1600
SP330F-80	80A	<13.0mA	Fig.3	Fig.2	M8	6600
SP330F-200	200A	<13.0mA	Fig.4	Fig.2	M10	11000

Outline drawing and dimensions(mm)

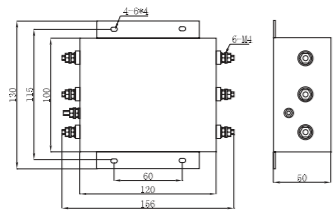


Fig.1

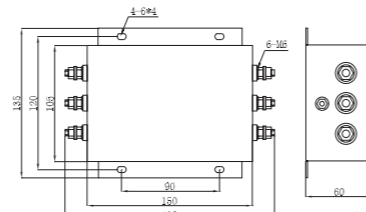


Fig.2

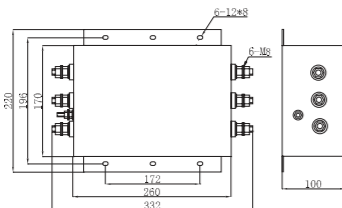


Fig.3

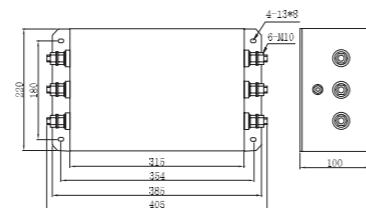



Fig.4

Pulse Group Suppression Series Filters

Features & Applications

- Pulse group suppression filter is designed according to the principle that absorption and reflection are complementary to each other and advanced design methods plus our rich experience in EMC for many years. It has good performance of suppressing fast and transient group pulse interference.
- Suitable for all kinds of civilian and military measure and control equipments which satisfy IEC-61000-4-4 or GB/T17626.4-1998 standard, such as household appliance, watt-hour meter, alarm equipment, electric testing instrument, fuel dispenser etc.
- Safety approval: 





SPES1 Series

RoHS

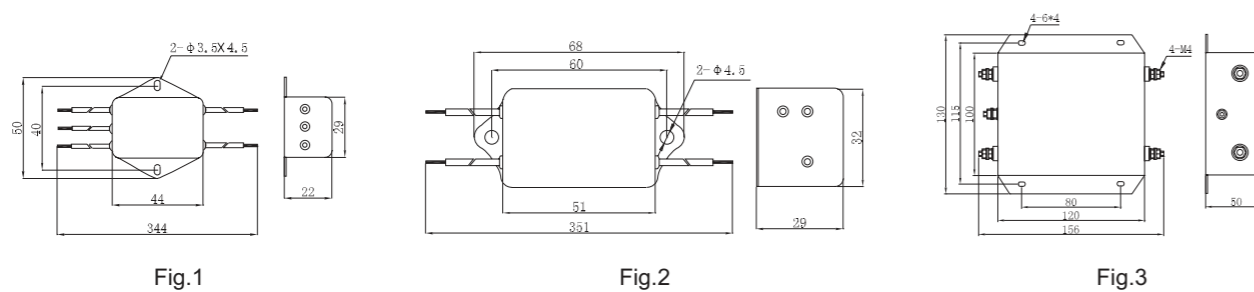
Technical data

Rated Voltage	110/250VAC		Rated Current@40°C	0.5A~200A
Test Voltage	line-line	1760VDC	Climatic Category	25/085/21
	line-ground	2000VAC	Operating Frequency	50/60Hz

Tabulates

Part No.	Rated current @40°C	Pulse suppression voltage	Dimension	Termination		Weight (g)
						
SPES1-1	1A	1KV~4KV	Fig.1	—	○	65
SPES1-6	6A	1KV~4KV	Fig.2	—	○	120
SPES1-10	10A	1KV~4KV	Fig.3	M4	—	1200

Outline drawing and dimensions(mm)



EMI Suppression Components

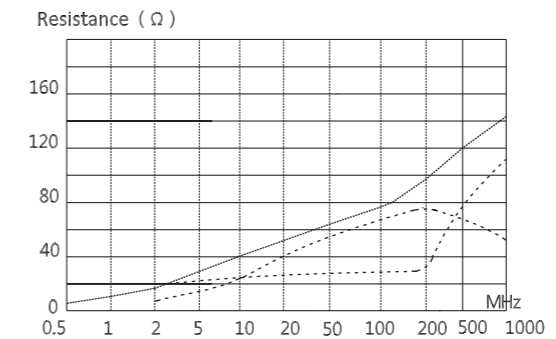
Frequency characteristic curve

Features & Applications

- Effectively absorb high-frequency clutter, very high resistivity and magnetic conductivity
- Equivalent to inductor and resistor in series connection
- Variable dimensions
- Easy to install
- Suitable for all kinds of signal cables and power cables



RoHS

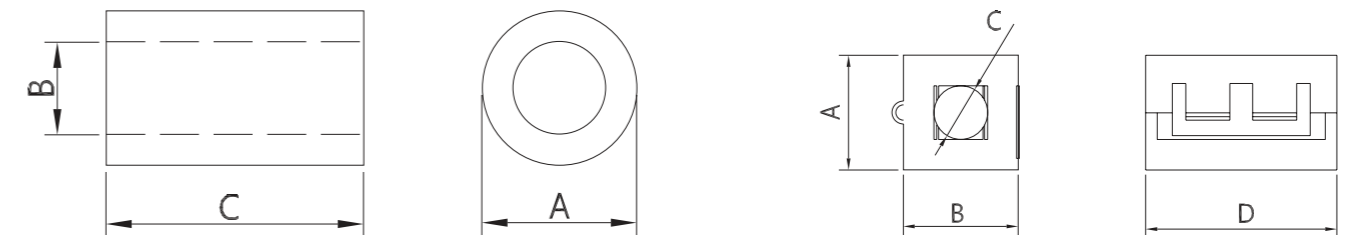


$$Z(f) = R(f) + jX(f)$$

Tabulates

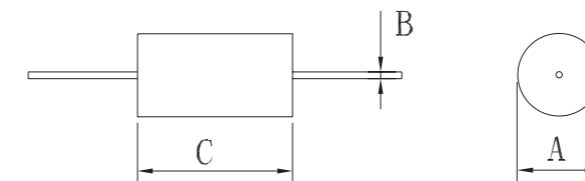
Product	Part No.	Dimension(mm)				Resistance (Ω)	
		A	B	C	D	25MHz	100MHz
EMI ferrite core	SP10	3.5±0.2	1.3±0.1	3.0±0.3	/	20	30
	SP11	4.0±0.2	2.0±0.2	3.0±0.3	/	12	20
	SP12	5.0±0.2	2.4±0.2	6.35±0.3	/	16	30
	SP13	6.0±0.3	3.0±0.2	3.0±0.3	/	12	30
	SP40	7.8±0.2	4.2±0.2	13.0±0.2	/	56	100
	SP41	10.3±0.3	5.8±0.2	10.2±0.3	/	44	61
	SP42	14.2±0.3	6.35±0.2	28.5±0.5	/	150	220
	SP43	16.0±0.5	4.3±0.2	17.5±0.8	/	120	220
	SP44	16.0±0.4	9.0±0.3	4.0±0.3	/	16	36
	SP45	17.5±0.3	9.5±0.3	28.0±0.5	/	96	150
	SP46	20.5±0.4	10.3±0.3	10.0±0.5	/	40	70
	SP90	25.0±0.5	15.0±0.4	12.0±0.4	/	37	70
SP91	26.0±0.5	12.8±0.4	28.5±0.5	/	450	600	
EMI ferrite bead	SP18	3.5±0.2	0.6±0.1	6.0±0.3	/	50	90
	SP28	3.5±0.2	0.6±0.1	9.0±0.3	/	70	120
	SP38	6.0±0.2	0.6±0.1	10.0±0.2	/	320	580
	SP48	3.5±0.2	0.6±0.1	3.5±0.2	/	100	130
EMI ferrite core with mount holder	SPJ110	19.5±0.5	19.0±0.5	6.5±0.4	32.0±1.0	170	361±20%
	SPJ140	23.2±0.5	23.4±0.5	9.5±0.3	32.0±1.0	104	224
	SPJ40	31.5±0.5	31.0±1.0	13.0±1.5	33.0±0.5	130	200

Outline drawing and dimensions(mm)

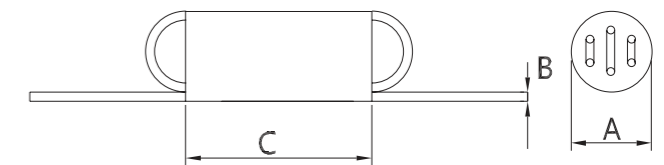


EMI ferrite core

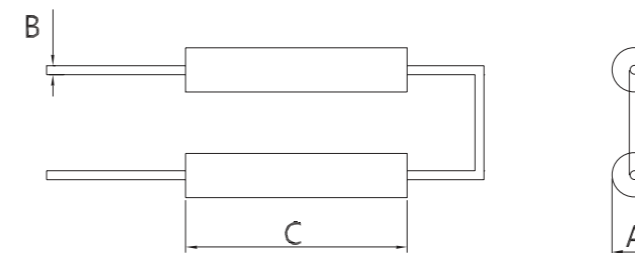
EMI ferrite core with mount holder



FT18, FT28



FT38



FT48