



Standard EMI Filter For Anechoic Chamber

Standard EMI Filter For Anechoic Chamber



1. Product Description

Our filters are specifically designed for electromagnetic compatibility (EMC) testing, meeting the rigorous requirements of anechoic chambers and shielding enclosures. They deliver outstanding conducted interference suppression performance, ensuring reliable operation in demanding EMC environments. The product lineup includes single-phase power line filters and three-phase four-wire power line filters, tailored for superior performance.

2. Typical Applications

- Shielded room
- Anechoic chamber, Antenna pattern testing chamber, Radar cross-section (RCS) testing chamber
- EMC cabinet
- RF shielded box
- Electronic shelters
- Shielded tents

- MRI room

3. Product Features

- Compliance with Standards: Meets CISPR 16/25, IEC 61000-4-3, MIL-STD-461, EN 60939 and other stringent military and international standards.
- Low leakage and low voltage drop
- Easy Integration: Compact and easy to install, fitting various chamber structures.
- High common & differential mode insertion loss

4. Technical Data

Rated Voltage	250VAC/500VDC 250/440VAC	Single-phase/DC Three-phase
Rated Frequency	DC/50/60Hz	
Rated Current	Refer to product selection table	Ambient temperature of +40°C
Number of lines	2 or 4	
Insertion Loss, Per MIL-STD-220C	> 100dB	Single-stage filter: 150kHz – 40GHz
DC Resistance	Refer to product selection table	Each Line
Power Dissipation	Refer to product selection table	At Rated Current
Test Voltage	1200Vdc, 2s	Line/Line
	1200Vdc, 2s	Line/Ground
Voltage Drop/line	< 1%	Rated Voltage 250/440V@50/60Hz
I _{Leakage}	Refer to product selection table	
Discharge Time to Below 34V	30s	
Climatic Category (EN 60068-1)	25/085/21	-25°C~+85°C 21 days damp heat test

➤ Discharging Resistance Integrated

A discharge resistor is integrated into the filter to safely dissipate stored capacitance after power is turned off.

5. Product Selection Table

Type	Rated Current (A)	Rated Voltage (VAC/DC)	Number of lines	I _{Leakage} (A)	DC resistance of each line(mΩ)	Power Dissipation (W)	Dimensional Drawing
GPF272A-16	16	250/500	2	0.7	< 25	< 10	Fig 1
GPF272A-32	32	250/500	2	1	< 20	< 20	

GPF272A-63	63	250/500	2	1	<3.0	<25	Fig 2
GPF272A-100	100	250/500	2	1	<5	<50	
GPF272A-150	150	250/500	2	1	<2.5	<50	
GPF472A-16	16	250/440VAC	4	0.7	<25	<30	Fig 3
GPF472A-32	32	250/440VAC	4	1	<20	<60	
GPF472A-63	63	250/440VAC	4	1	<3	<75	
GPF472A-100	100	250/440VAC	4	1	<5	<150	Fig 4
GPF472A-150	150	250/440VAC	4	1	<2.5	<150	
GPF472A-200	200	250/440VAC	4	1	<1.5	<200	

6. Dimensions (mm)

Type	A	B	C	D	E	F	G	H	I	J	K	Dim.
GPF272A-16	500	250	100	300	275	200	90	60	M24	M6	M6	Fig 1
GPF272A-32												
GPF272A-63	500	250	100	300	275	200	90	60	M33	M6	M6	
GPF272A-100	700	160	140	200	180	220	70	60	M45	M8	M8	Fig 2
GPF272A-150												
GPF472A-16	500	250	100	300	275	200	90	60	M33	M6	M6	
GPF472A-32										M6	M6	
GPF472A-63	500	250	100	300	275	200	90	60		M6	M6	
GPF472A-100	700	250	140	290	270	220	70	60	M72	M8	M8	Fig 4
GPF472A-150										M8		
GPF472A-200									M80	M12		

7. Outline Drawing

Fig 1

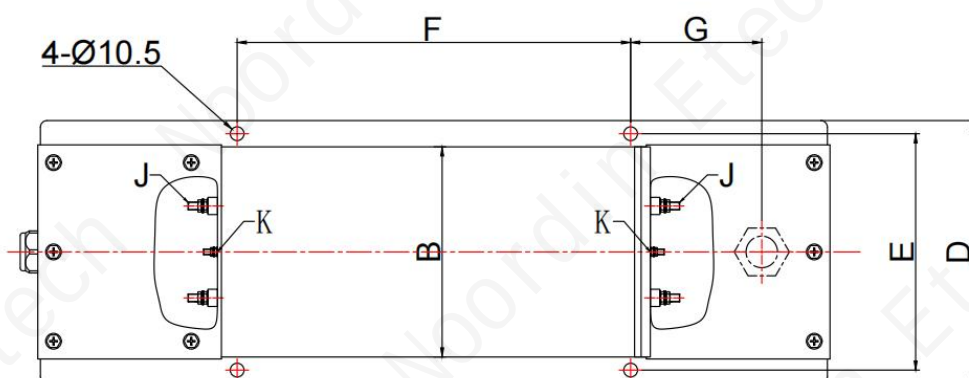
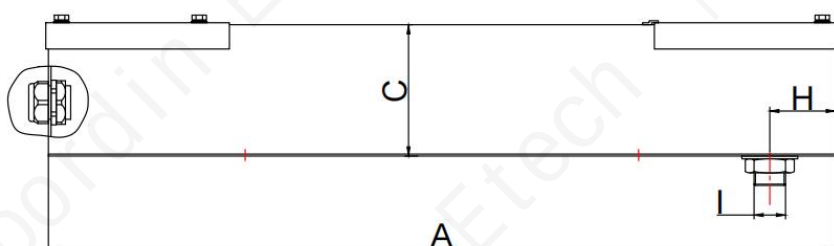


Fig 2

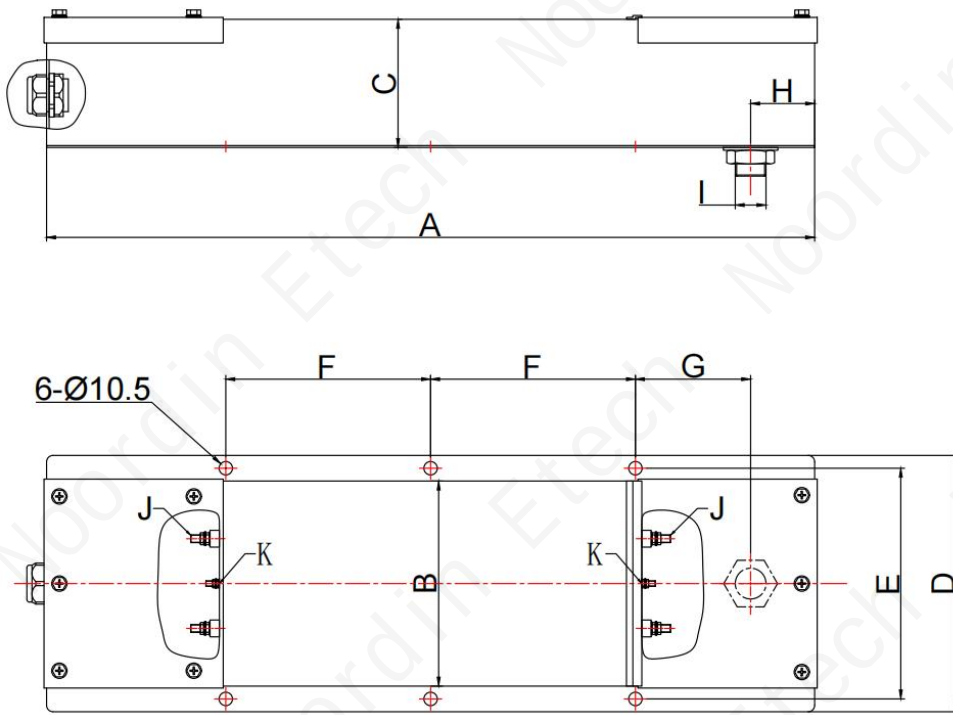


Fig 3

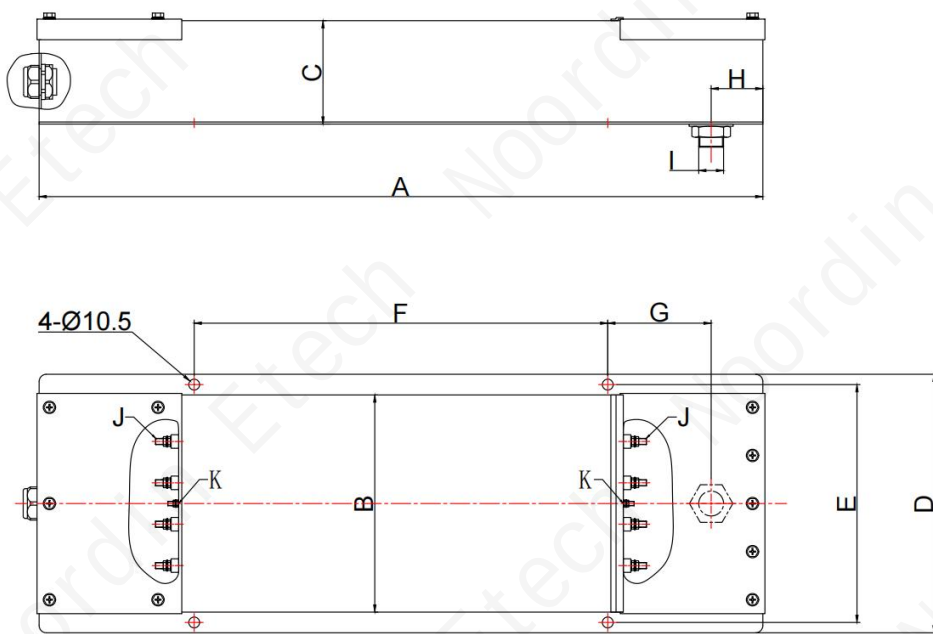
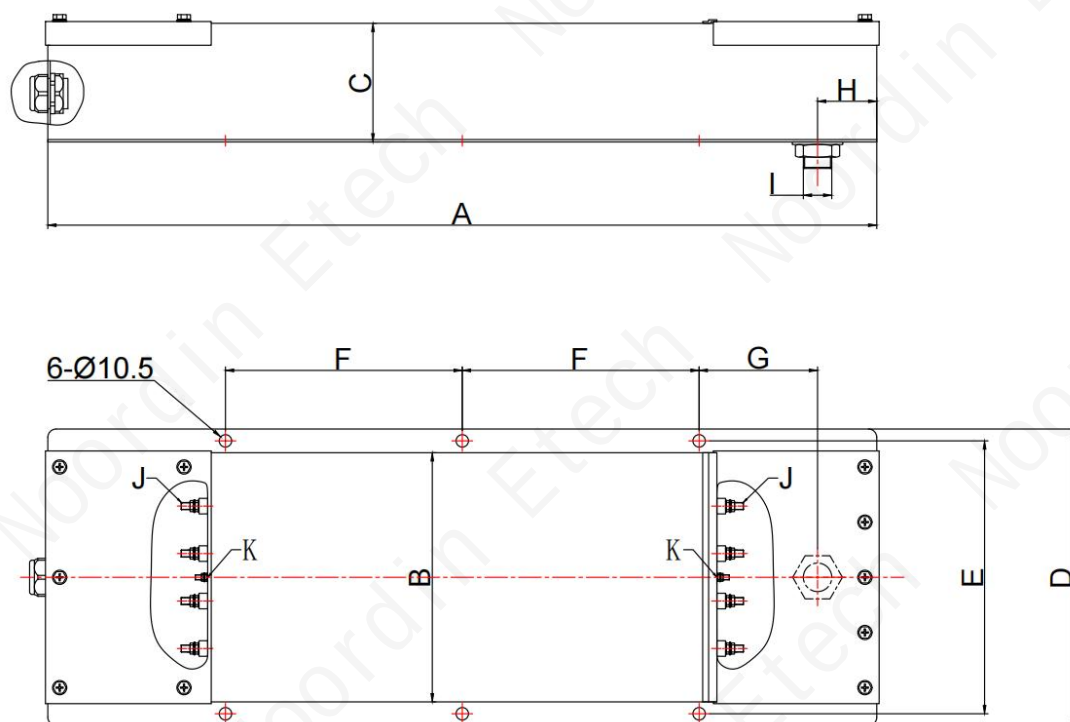
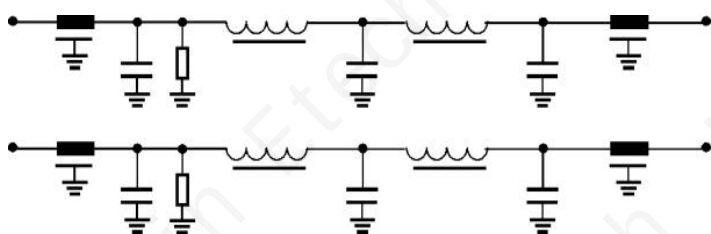


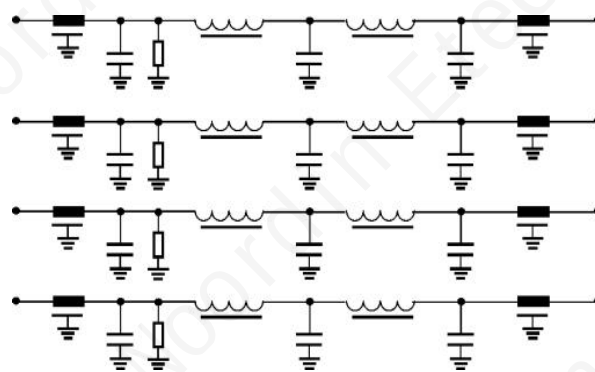
Fig 4



8. Circuit Diagrams



2-line filter

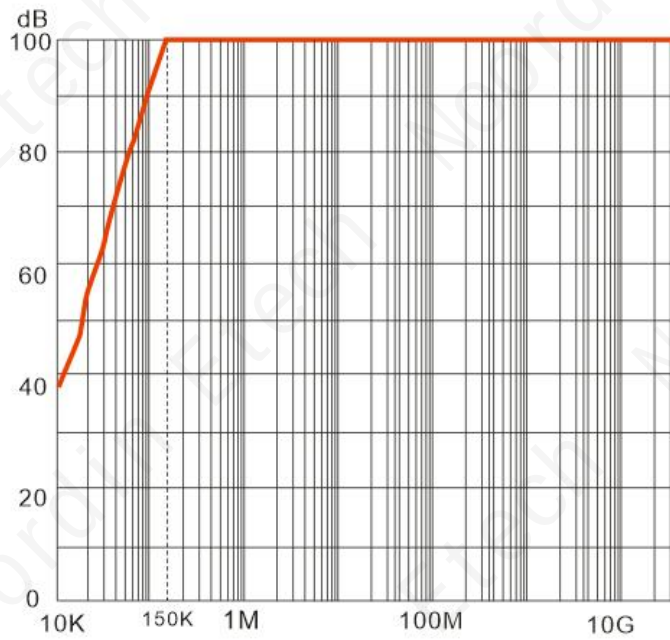


4-line filter

Single-stage power line filter

9. Insertion Loss

Frequency of 150kHz-40GHz, Insertion loss over 100dB



Single-stage power line filter

Contact Us

No. 11 Shunyuan Road, Xinbei District, Changzhou, Jiangsu Province, China

+86 0519 86815058

sales@noordin.cn, cyt@noordin.cn, bjw@noordin.cn