

EMI Filter For Anechoic Chamber**400 / 800Hz EMI Filter For Anechoic Chamber****1. Product Description**

The 400/800Hz power line filter is suitable for more demanding high-frequency power environments, particularly in military, aerospace, and precision instrumentation applications.

2. Typical Applications

- Anechoic Chamber, EMC Testing Chamber, Antenna Pattern Testing Chamber, Radar Cross-Section (RCS) Testing Chamber
- Electronic Warfare (EW) Testing Chamber
- Shielded Room
- EMC Cabinet
- Shielded Tents

3. Product Features

- **Durability and Reliability:** Features superior reliability and durability, capable of operating continuously in extreme environments such as high temperatures, intense vibrations, and strong electromagnetic interference.
- Equipped with differential mode coils, each operating independently for stable performance

- Excellent suppression of conducted and RF interference
- Flexible configuration with single or dual-line filters to accommodate single-phase or three-phase circuits
- Supports multi-line parallel connection for current expansion
- Compliance with Standards: Meets CISPR 16/25, IEC 61000-4-3, MIL-STD-461, EN 60939 and other stringent military and international standards.

4. Technical Data

Rated Voltage	115/200VAC	Single/Three-phase
Rated Frequency	400/800Hz	
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	Three-stage filter: 14kHz – 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	<3%	Rated Voltage 115/200V@400/800Hz
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)	Number of lines	I _{Leakage} (A)	DC resistance of each line (mΩ)	Power Dissipation (W)	Dimensional Drawing
GMF271C-16	16	115	2	1	<50	<20	Fig 1
GMF271C-32	32			1	<20	<30	
GMF271C-63	63			1	<6.0	<50	
GMF271C-100	100			1	<3.5	<70	Fig 2
GMF471C-16	16	200	4	1	<50	<30	Fig 3
GMF471C-32	32			1	<20	<40	
GMF471C-63	63			1	<6.0	<70	

GMF471C-100	100			1	<3.5	<100	Fig 4
GMF471C-150	150			1	<3.5	<200	
GMF471C-200	200			1	<3	<200	

6. Dimensions (mm)

Type	A	B	C	D	E	F	G	H	I	J	K	Dim.
GMF271C-16	630	220	170	260	240	330	100	50	M33	M6	M6	Fig 1
GMF271C-32												
GMF271C-63												
GMF271C-100	800	300	180	340	320	250	90	60	M45	M8	M8	Fig 2
GMF471C-16	800	220	170	260	240	250	150	50	M33	M6	M6	Fig 3
GMF471C-32									M45			
GMF471C-63												
GMF471C-100	960	320	180	360	340	330	90	60	M45	M8	M8	
GMF471C-150	1150	350	250	390	370	250	5	80	M60	M12	M8	Fig 4
GMF471C-200												

7. Outline Drawing

Fig 1

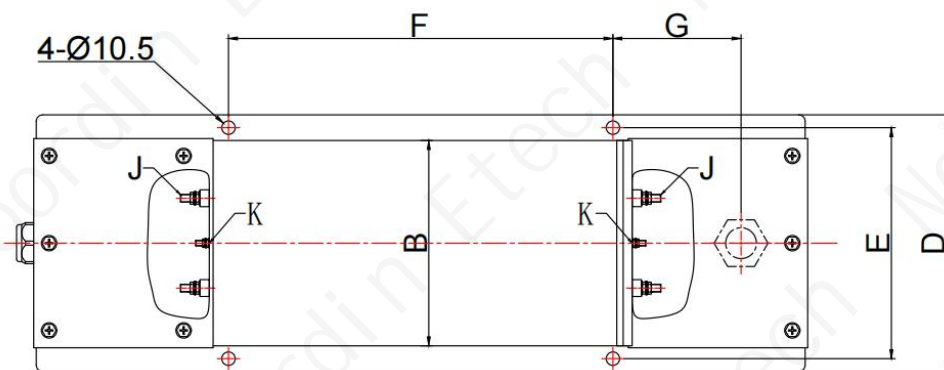
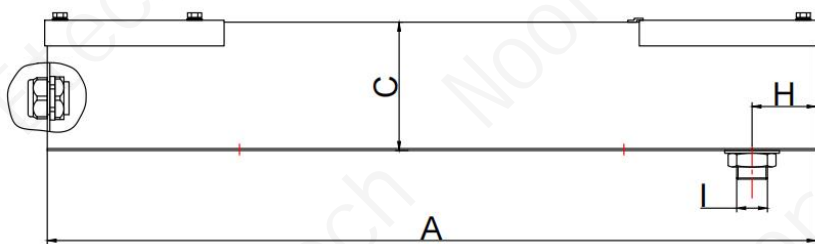


Fig 2

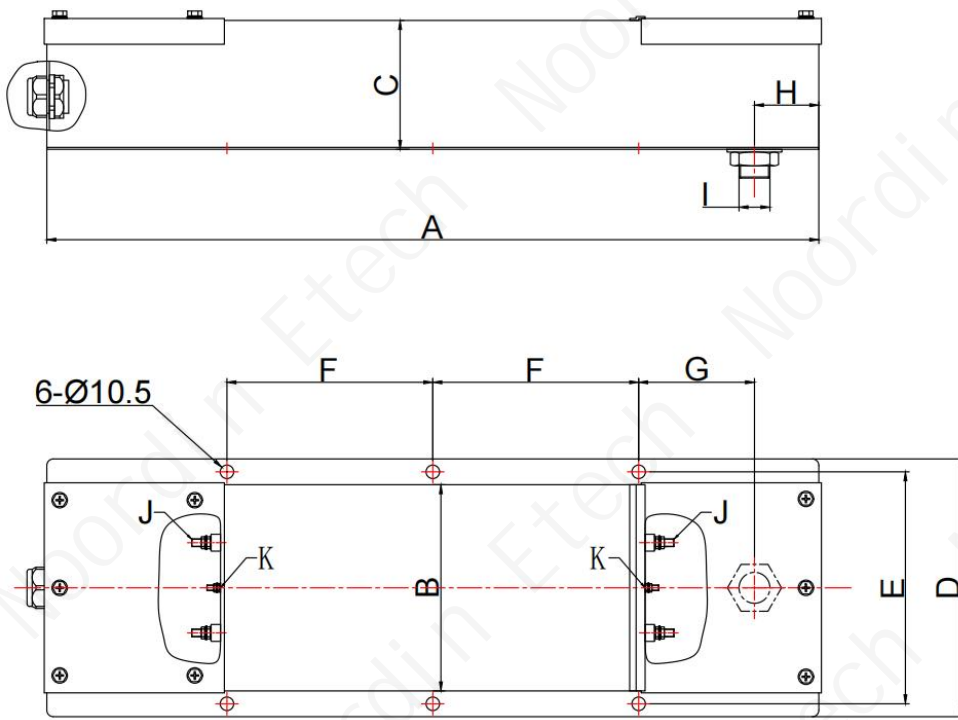


Fig 3

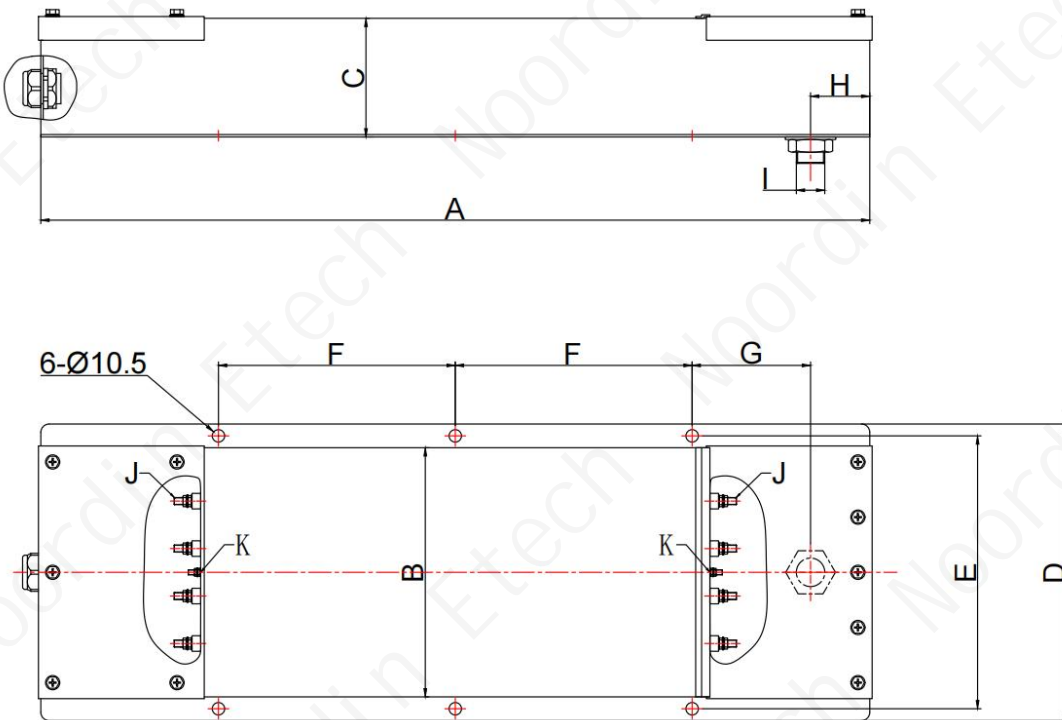
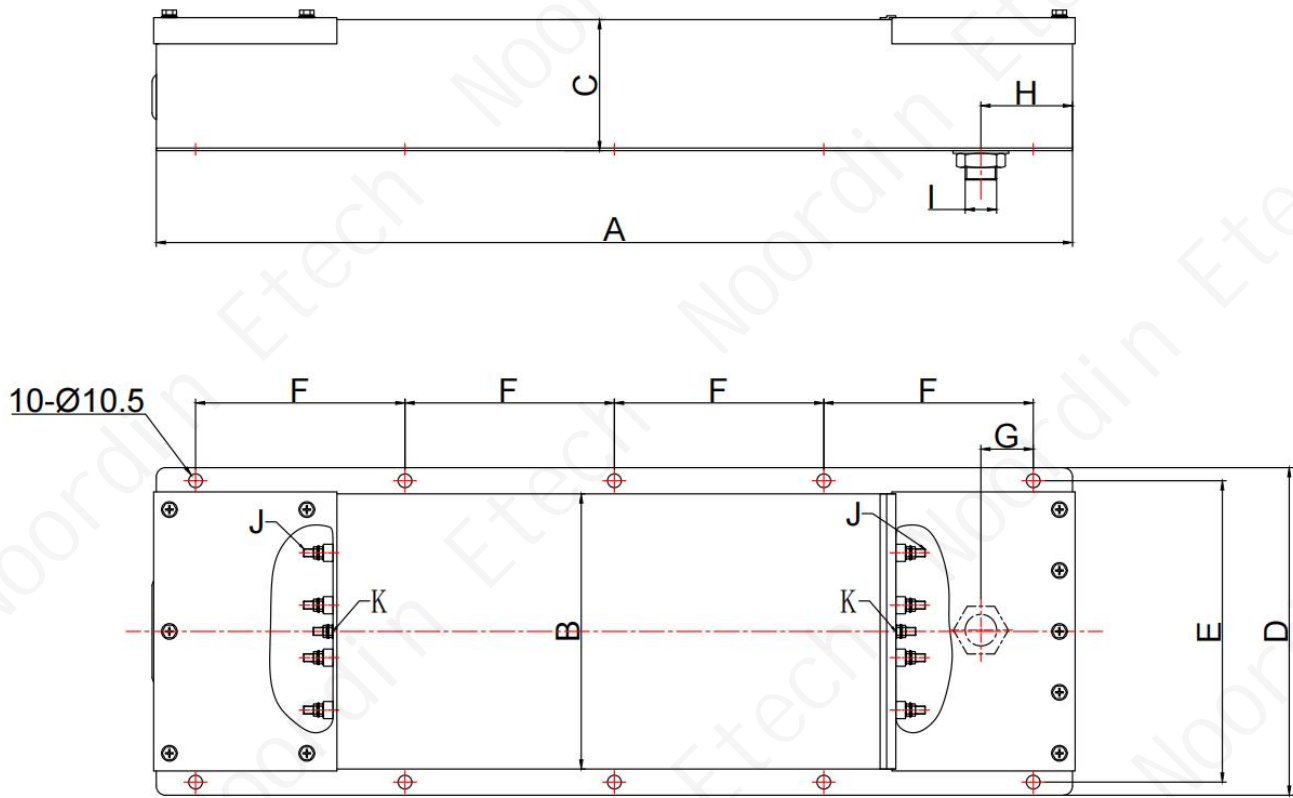
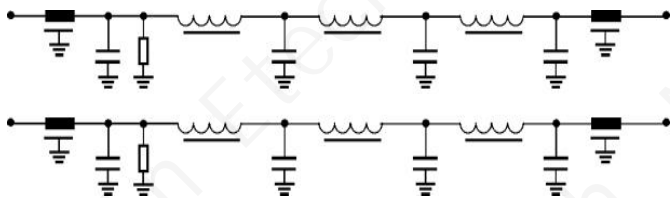


Fig 4

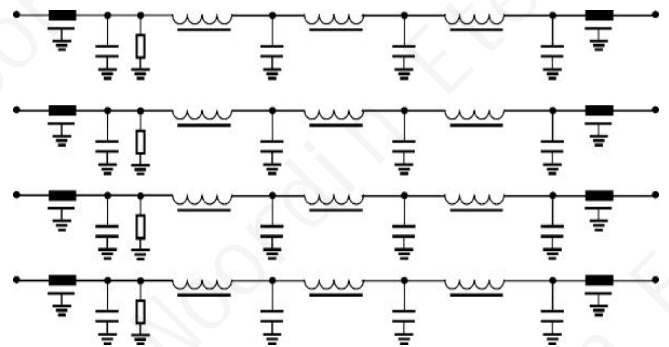


8. Circuit Diagrams



2-line filter

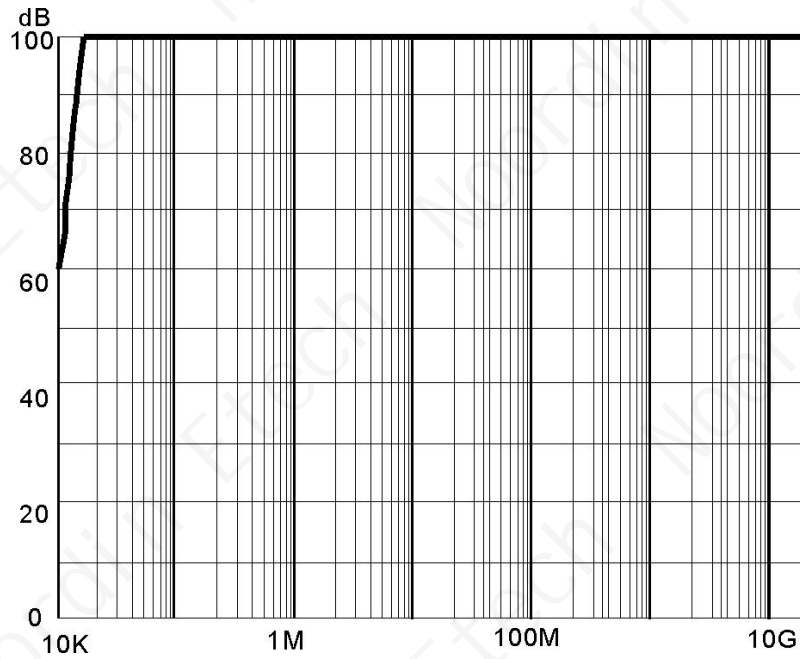
Three-stage power line filter



4-line filter

9. Insertion Loss

Frequency of 14kHz-40GHz, Insertion loss over 100dB



Three-stage power line filter

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