Introduction



Rated current: 0.5~2000A

Working voltage: 0~250VDC

Various terminals: wire, solder lug, stud

Custom specific versions on request



Features and Benefits

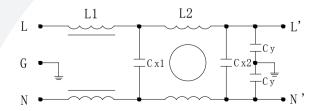
- High performance DC filters with exceptional common and differential mode filtering effect for interference from 10KHz to 30MHz.
- FT1200D series are two-stage filters comprising one common mode and one differential mode with enhanced filtering effect of the differential mode interference.
- FT121D series are two-stage common mode filters
- High voltage versions above 250VDC are also available upon request.

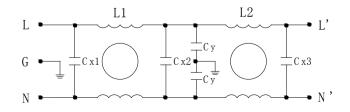
Typical Applications

Suitable for switch power supply, SPC exchange and other DC electric device



Electrical Schematics





FT1200D FT121D



Technical Data

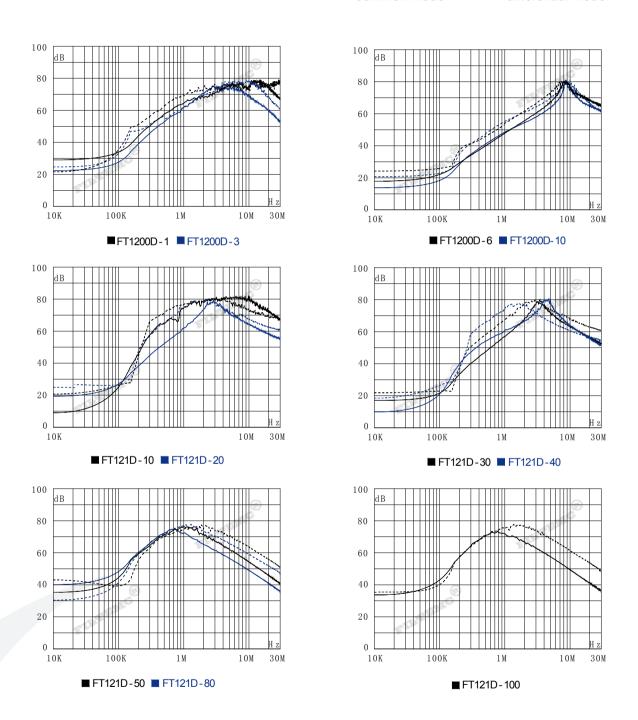
Rated Voltage: V _R	0~250VDC
Operating Frequency: f _R	DC
Rated Current: I _R	0.5~2000A@40°C
Test Voltage: V _{test}	500VDC, 3S(line-line); 500VDC, 3S(line-line)
Climatic Category(IEC 60068-1)	25/085/21(-25°C /+85°C Damp heat test for 21 days)

Tabulates

		Terminals				
Part No.	Rated Current [A]		0		Weight [g]	
		-S	-L	-W		
FT1200D-1	1			0	95	
FT1200D-3	3			0	95	
FT1200D-6	6		0	0	175/95	
FT1200D-10	10		0		175	
FT121D-10	10		0		175	
FT121D-20	20	M4			320	
FT121D-30	30	M6			320	
FT121D-40	40	M6			320	
FT121D-50	50	M6			1400	
FT121D-80	80	M8			2000	
FT121D-100	100	M8			2000	

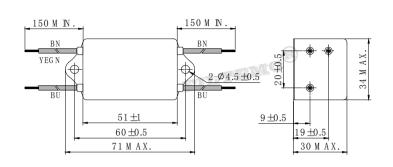
Insertion Loss(dB)

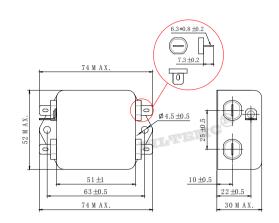




Note: Insertion loss is tested with a system of empty load and $50\Omega - 50\Omega$ according to UL1283 Standard. The actual effect please follow the field data of real application.

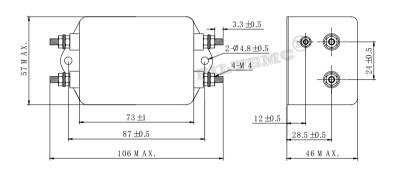
Outline Drawing and Dimensions(mm)

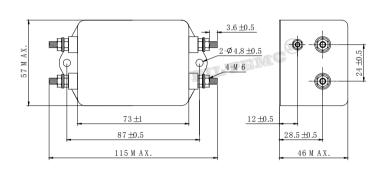




FT1200D-1/3/6

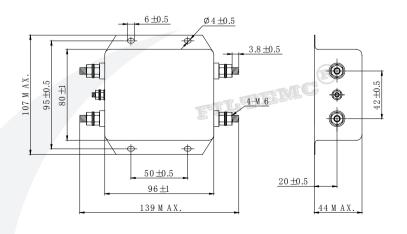
FT1200D-6/10 FT121D-10

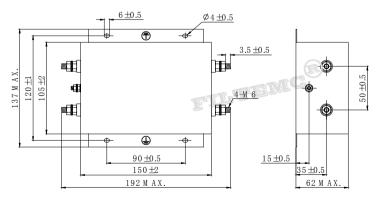




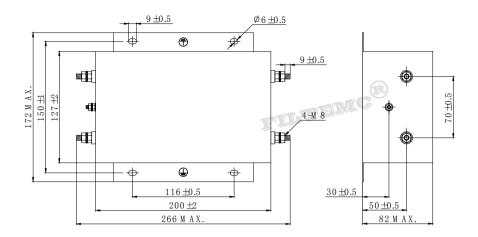
FT121D-20

FT121D-30





FT121D-40 FT121D-50



FT121D-80/100

Important Notes on EMI Filter Application

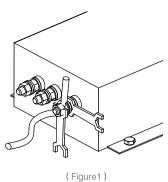
1. Storage of EMI Filters:

EMI filters mustn't be left out in the heat of the sun or exposed to the rain, it should be stored in warehouse with good ventilation, surrounding temperature between -30°C and +65°C, the highest relative air humidity lower than 90%, and no corrosive liquid or gas.

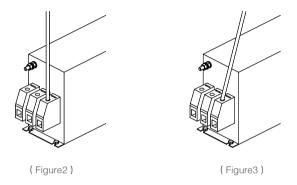
2. Installation of EMI Filters:

- **EMI** filters should be installed at power input, and the line inside the chassis be as short as possible to reduce radiated interference.
- Both input and output lines of EMI filters neither be intersected nor be tied up by string.
- Make sure the mounting flange fully grounded, and keep the ground cable as short as possible if filters are connected to other equipment.
- If the terminal is stud, please use two spanners to fasten the screw nut when connecting to avoid stud rotating and thus causing changes to the internal circuit and consequently leading to filters arcing, short circuit, broken down or the filtering effect worsened. First use spanner1 to fix the screw nut near the metal case, then use spanner2 to tighten the screw nut in front(shown as Figure1), otherwise the terminals may be damaged. Apply the same for the connection of other phases.





Keep the tools fastening the stud be vertical to the metal case of filter when installing terminal block filters (shown as Figure2), must not tilt(shown as Figure3), otherwise the terminal blocks may be damaged.



3. Reminding and Warning:

Please read all the safety warnings and instructions before installing filters and putting them into use:

- Don't take terminals as supporting point when moving filters to avoid the terminals distortion, loosening or broken.
- The protective earth connections shall be the first to be made when the EMC filter is installed and the last to be disconnected.
- Filters generate leakage current, please make sure they are well grounded before putting into operation.
- If the rated current is higher than 50A, we recommend grounding by the earth terminals but not only through the metal case of filters.
- Danger of electric shock: EMC filters contain components that store an electric charge. Dangerous voltages can continue to exist at the filter terminals for longer than five minutes even after the power has been switched off.
- The working conditions of EMI filter should comply with the technical parameters stated on the label, over voltage or overload could cause damage to filters. It is suggested to take proper over current protection measures.
- Current drop occurs when the surrounding temperature rise, fail to follow the current drop requirement may lead to impermissible exceeding of the component temperature, as a result the service life of filters will be shortened after long time running.



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