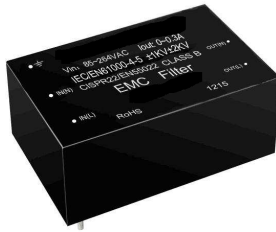


EMC Filter SFC-L01DV1 Series

EMC Filter



RoHS

FEATURES

- Compact size
- Design to suppress the AC power surge to achieve primary protection
- Ensure the power supply module to meet the requirement of CISPR22/ EN55022 Class B
- Cost-effective
- Low Temperature rise

This model applies to analog circuit which is noise-sensitive. Put SFC-L01DV1 on to the input of AC/DC module can ensure the module meet Surge level of IEC/EN61000-4-5 $\pm 1KV$ (2Ω internal resistance)/ $\pm 2KV$ (12Ω internal resistance) and EMI requirement of CISPR22 /EN 55022 Class B.

EMC filter used with the SCHMID-M AC/DC module, AC/DC module's max. Input voltage must not more than EMC filter's max. Voltage, AC/DC module's max. Input current must less than EMC filter's max current.

Selection Guide

Model	Input Voltage Range (VAC)	Current (A)(max)
SFC-L01DV1	85-305	0.3

General Specifications

Item	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature		-40	--	85	°C
Storage Temperature		-40	--	105	
Casing Temperature Rise	220VAC @0.3A	--	--	30	
Leakage current (line to ground)	2000VAC, tested for 1 minute	--	2	--	mA

General Specifications

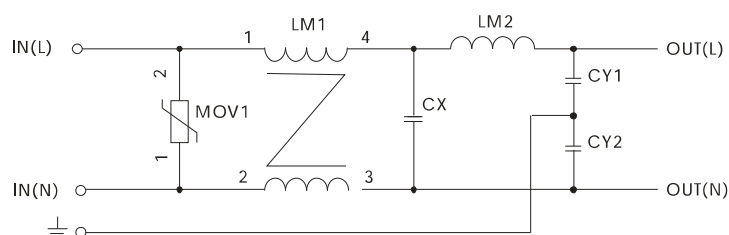
Casing Material	Black flame-retardant heat-proof epoxy resin (UL94-V0)
Package Dimensions	33.70X22.20X18.00 mm
Weight	20g (Typ)

Devise Standard

Put SFC-L01DV1 on to the input of AC/DC module can ensure the module meet Surge level of IEC/EN61000-4-5 $\pm 1KV$ (2Ω internal resistance)/ $\pm 2KV$ (12Ω internal resistance) and EMI requirement of CISPR22 /EN 55022 Class B.

Design Reference

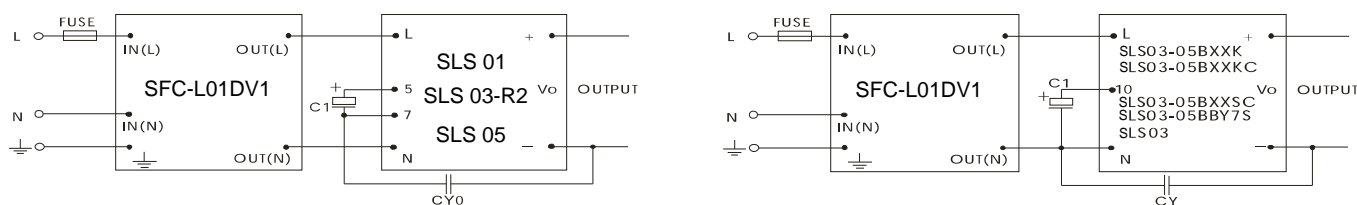
1. Inside schematic



EMC Filter

SFC-L01DV1 Series

2. Typical application



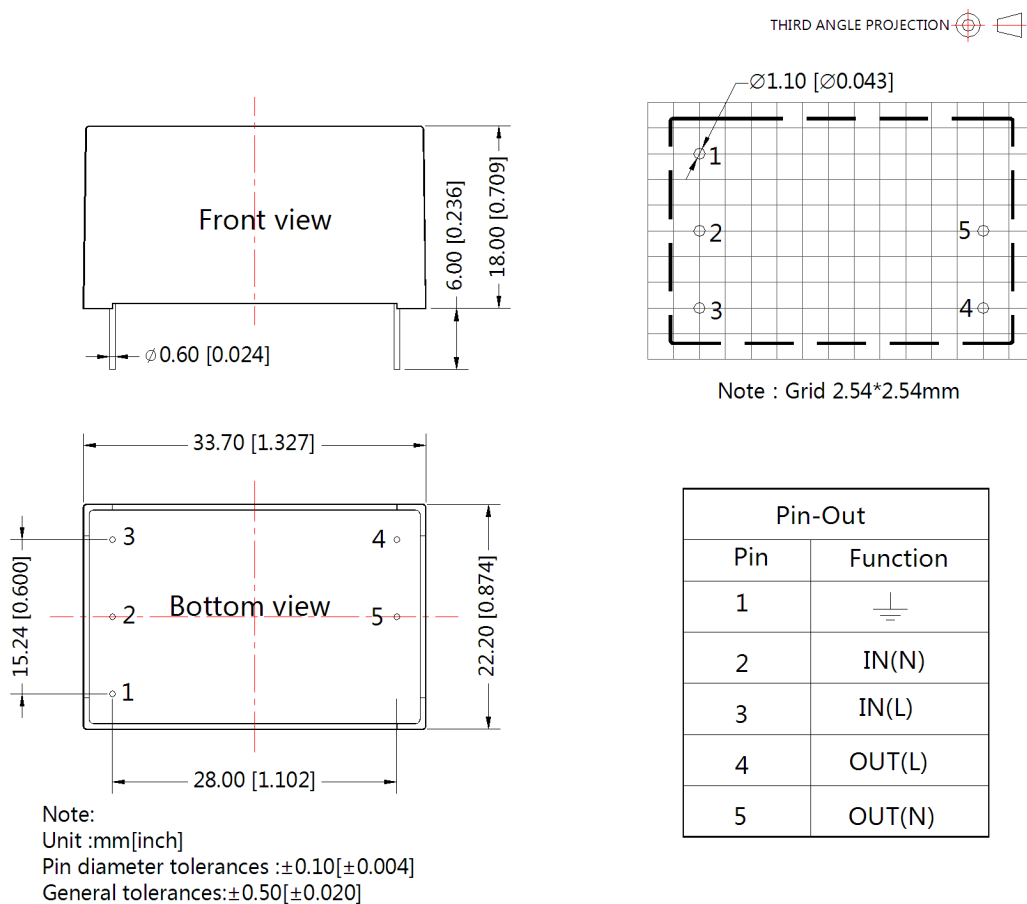
FUSE: Due to the difference of the power module input current, the fuse of the recommended values, please refer to the Technical Manual for the power module.

C1, CY0, CY, LDM: parameter selection please refer to power supply technical manual.

3. Supporting the product model

Model	EMI(Without External Circuit)	EMI(With SFC-L01DV1)	Surge (Without External Circuit)	Surge (With SFC-L01DV1)	EFT (Without External Circuit)	EFT (With SFC-L01DV1)
SLS01 Series	--	CISPR22/EN55022 CLASS B	--	IEC/EN61000-4-5 $\pm 1KV/\pm 2KV$ perf. Criteria B	--	IEC/EN61000-4-4 $\pm 4KV$ perf. Criteria B
SLS03 Series	--	CISPR22/EN55022 CLASS B	--	IEC/EN61000-4-5 $\pm 1KV/\pm 2KV$ perf. Criteria B	--	IEC/EN61000-4-4 $\pm 4KV$ perf. Criteria B
SLS03-R2 Series	--	CISPR22/EN55022 CLASS B	--	IEC/EN61000-4-5 $\pm 1KV/\pm 2KV$ perf. Criteria B	--	IEC/EN61000-4-4 $\pm 4KV$ perf. Criteria B
SLS05 Series	--	CISPR22/EN55022 CLASS B	--	IEC/EN61000-4-5 $\pm 1KV/\pm 2KV$ perf. Criteria B	--	IEC/EN61000-4-4 $\pm 4KV$ perf. Criteria B
SLS03-05BXXK	--	CISPR22/EN55022 CLASS B	--	IEC/EN61000-4-5 $\pm 1KV/\pm 2KV$ perf. Criteria B	--	IEC/EN61000-4-4 $\pm 4KV$ perf. Criteria B

SFC-L01DV1 Dimensions and Recommended Layout



Note:

1. Packing Information please refer to 'Product Packing Information'. Packing bag number: 58220014;
2. Unless otherwise specified, data in this datasheet should be tested under the conditions of $T_a=25^{\circ}\text{C}$, humidity<75%;
3. All index testing methods in this datasheet are based on our Company's corporate standards;
4. The performance indexes of the product models listed in this manual are as above, but some indexes of non-standard model products will exceed the above-mentioned requirements, and please directly contact our technicians for specific information;
5. We can provide product customization service;
6. Specifications of this product are subject to changes without prior notice.