AIPUPUWER®

AC/AC EMC Filter LC-AC01C2



Typical Features

- ♦ Wide input voltage range: 85-305VAC
- ◆ Small size, good temperature characteristics
- ◆ Suppress AC power line surge voltage to achieve first-level protection
- Ensure the power supply module to meet EMI CLASS-B limit requirements
- ◆ Used with power modules to withstand surges: DM-2KV, CM-4KV
- ◆ Operating temperature: -40°C~+85°C
- Small size, suitable for direct plug-in installation on PCB board
- Enclosed plastic housing, compliant with UL94V-0



Application Field

LC-AC01C2 series------is a small-volume filter module that AIPU provides to customers that complies with EMC. This filter has a global input voltage range and is suitable for analog circuits and other noise-sensitive applications. Adding this module to the input of the AC-DC module can make the product meet the surge level requirements of $\pm 2KV$ (2Ω internal resistance)/ $\pm 4KV$ (12Ω internal resistance) in the IEC/EN61000-4-5 standard, and at the same time make the supporting power module meet the EMI limit requirements of CISPR32/EN55032 CLASS-B. When used with AIPU AC-DC module power supply, the maximum input voltage of the AC-DC module power supply should not be greater than the maximum operating voltage of the EMC filter, and the maximum input current of the AC-DC module power supply should be less than the rated operating current of the EMC filter.

Typical Product List

Part No	Input voltage Range (VAC)	Rated Current	Standards Compliant
LC-AC01C2	95-205	500	EN61000-4-5 CLASS-4
LC-ACUTCZ	85~305	500	CISPR32/EN55032 CLASS-B

Note 1: Complies with EMC standards IEC/EN61000-4-5 and CISPR32/EN55032.

Note 2: This filter module can be used with our AC-DC power module input 85-305VAC, 85-265VAC.

Note 3: Products that meet the output power of 2-20W have successfully passed the RE, CE, SURGE and other standard requirements.

Input Specification					
Item	Operating Condition	Min.	Тур.	Max.	Unit
Input Voltage Range	AC Input	85	220	305	VAC
Input Frequency Range		47	50	63	Hz
Input no-load Current	2201/4.0		15		mA
Input no-load Consumption	220VAC		80		mW
General Specification					
Item	Operating Condition	Min.	Тур.	Max.	Unit
Operating Temperature		-40		+85	°C

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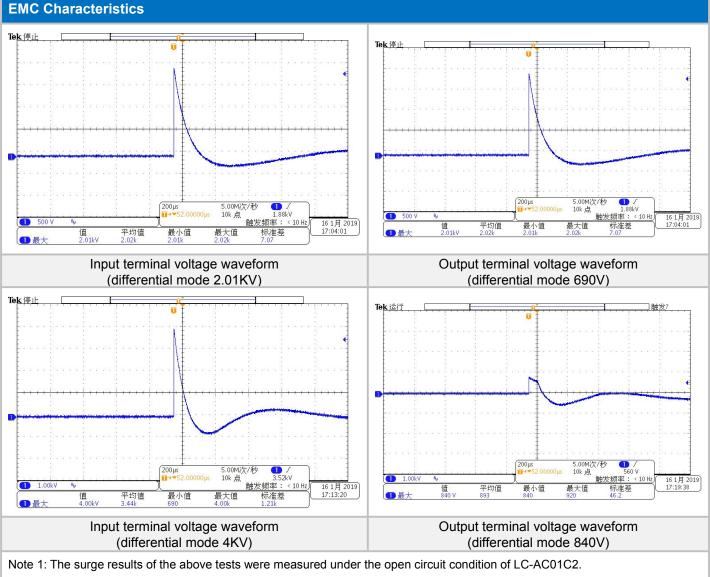
AC/AC EMC Filter LC-AC01C2



Storage Temperature		-40		+100	
	220VAC@50mA			6	
Case Temperature	220VAC@300mA			22	
	220VAC@500mA			35	°C
	Wave soldering	260±4℃,time 5-10S			
Soldering Temperature	Manual soldering	360±8℃, time 4-7S			
Relative Humidity		10		90	%RH
Insulation Voltage	Input- PE, test 1 min, leakage current≪5mA			2000	VAC
Vibration		10-55Hz,10G,30Min,alongX,Y,Z			
Case Class		UL94V-0			

Design Reference Standards

When used with our AC-DC power module, the power module can meet the ± 2 KV (2 Ω internal resistance)/ ± 4 KV (12 Ω internal resistance) surge level requirements of the IEC/EN61000-4-5 standard, as well as the limit requirements of CISPR32/EN55032 and CLASS-B.



Note 2: The above tests were measured according to the requirements of standard IEC/EN-61000-4-5.

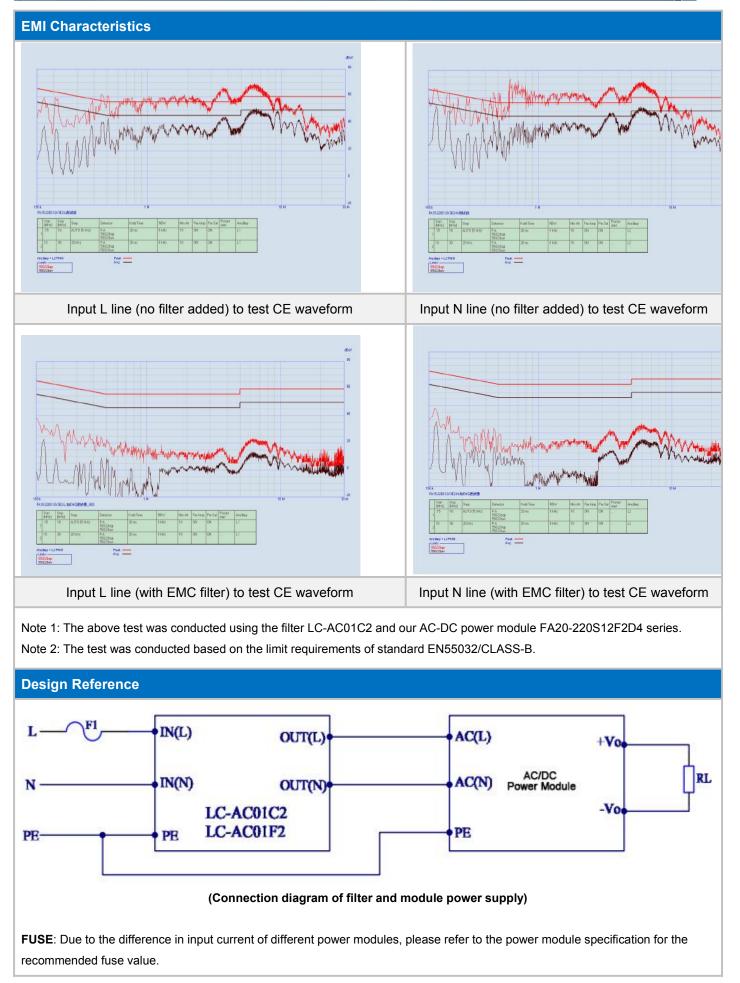
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AC/AC EMC Filter LC-AC01C2



)imension								
Part No.			L×W×H					
C2		48.5	48.5X36.0X20.5mm			1.909X1.417X0.807inch		
Pin Definition								
1	2		3		4	5		
PE	IN (N)		IN (L)	OUT (L)		OUT (N)		
Note: If the pin definitions	s of the power module ar	e inconsistent with	those in the selection	manual, the	markings on the ac	tual label shall prevail.		
Frequency Atten	uation Characteri	stics						
Item	Operating Co	ondition	Min.	Тур.	Max.	Unit		
Decay Rate	150KHz-1	GHz		20		DB		
Physical Charact	eristics							
	Case Material		Black f	lame retard	ant and heat resi	stant plastic (UL94V-0)		
Dimension			48.5X36.0X20.5mm					
Weight	Hor	Horizontal packaging		57g (TYP)				
Note:			I					
	cified, all indicators in this	manual are meas	ured at Ta=25℃, hum	idity<70%, n	ominal input voltage	e and positive output rated		
2. All indicator test metho	ods in this specification a	re based on our co	mpany's corporate sta	andards, and	the test standards	adopt national unified		
standards			· · -					
						ct our technical staff directly		
	vide product customization and regulations: See "Pro	•			an unecuy			
	Ind regulations. Occ. FIU			0				

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