

SERIES: EMC-30 | DESCRIPTION: AC POWER LINE FILTER

FEATURES

- \bullet 30 dB AC-line noise filtering (150 kHz \sim 1 GHz)
- ensures surge compliance to IEC/EN61000-4-5 standard ± 4 kV (2 Ω) / ± 6 kV (12 Ω)
- \bullet reduces emissions to help comply with CISPR22 / EN 55022 Class B
- \bullet accepts up to 1.5 A (rms) of nominal input current
- wide input voltage range (85~305 Vac)
- wide operating temperature range (-40 to +85 °C)
- options for board-mount, chassis-mount, or DIN-Rail mounting



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RoHS

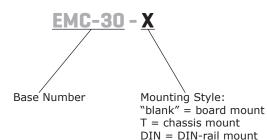
SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
input voltage		85		305	Vac
input current				1.5	А
noise attenuation	at 150 kHz ~ 1 GHz		30		dB
isolation voltage	L/PE, N/PE at 1 minute and leakage current 5 mA max		2,000		Vac
RoHS	yes				
operating temperature		-40		85	°C
storage temperature		-55		125	°C
storage humidity	non-condensing			95	%
case temperature rise	at 220 Vac, 0.5 A at 220 Vac, 1.0 A at 220 Vac, 1.5 A			5 20 30	°C °C °C

Notes: 1. All specifications are measured at Ta=25°C, humidity < 75%, nominal unless otherwise specified.

PART NUMBER KEY

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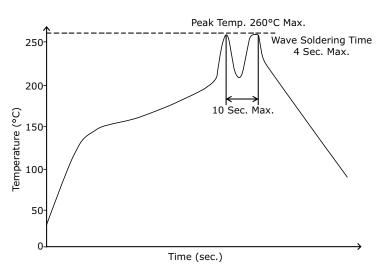


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SOLDERABILITY²

parameter	conditions/description	min	typ	max	units
hand soldering	for 3~5 seconds	350	360	370	°C
wave soldering	see wave soldering profile			260	°C

Note: 2. For board mount models only.



MECHANICAL

parameter	conditions/description	min	typ	max	units
	board mount: 53.80 x 28.80 x 19.00 [2.118 x 1.134 x 0.748 inch]		mm		
dimensions	chassis mount: 76.00 x 31.50 x 27.80 [2.992 x 1.240 x 1.094 inch]			mm	
	DIN-Rail mount: 76.00 x 31.50 x 32.40 [2.992 x 1.240 x 1.276 inch]			mm	
case material	black flame-retardant heat-proof epoxy resin (UL94V-0)				
weight	board mount		50		g
	chassis mount		70		g
-	DIN-rail mount 90		g		

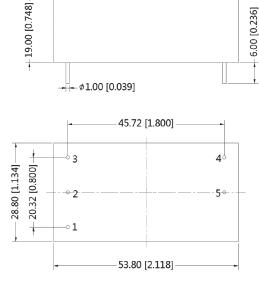
MECHANICAL DRAWING (BOARD MOUNT)

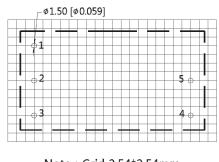
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units: mm [inch] tolerance: $\pm 0.50[\pm 0.020]$ pin diameter tolerance: $\pm 0.10[\pm 0.004]$

PIN CONNECTIONS		
PIN	Function	
1	GND	
2	IN(N)	
3	IN(L)	
4	OUT(L)	
5	OUT(N)	

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Note : Grid 2.54*2.54mm

Recommended PCB Layout Top View

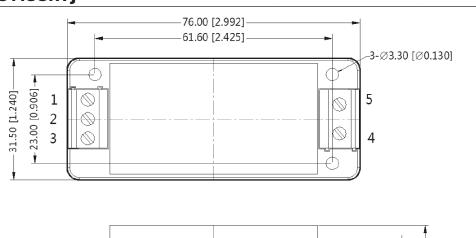
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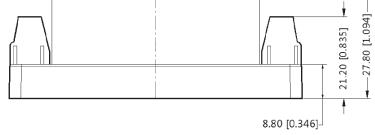
MECHANICAL DRAWING (CHASSIS MOUNT)

units: mm [inch] tolerance: ±0.50[±0.020]

wire range: 24~12 AWG

PIN CONNECTIONS		
PIN	Function	
1	GND	
2	IN(N)	
3	IN(L)	
4	OUT(L)	
5	OUT(N)	





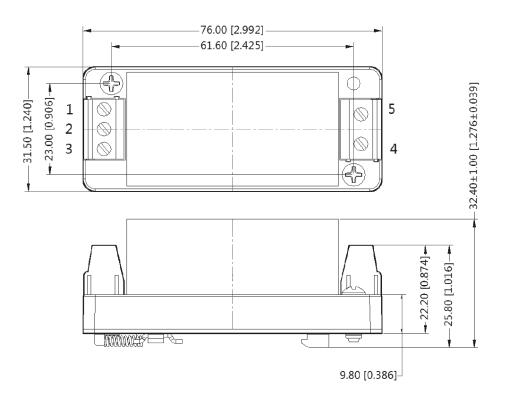
MECHANICAL DRAWING (DIN-RAIL MOUNT)

units: mm [inch] tolerance: ±0.50[±0.020]

installed on DIN rail TS35 wire range: 24~12 AWG

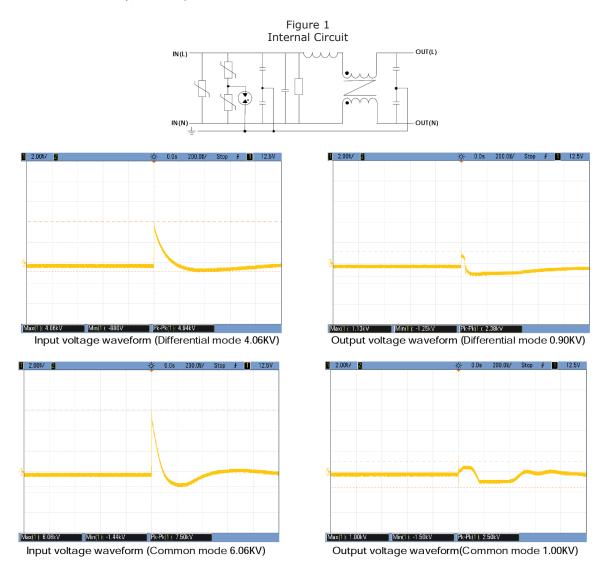
PIN CONNECTIONS		
PIN Function		
1	GND	
2	IN(N)	
3	IN(L)	
4	OUT(L)	
5	OUT(N)	

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EMC SPECIFICATIONS

Put the EMC-30 on the input of the AC-DC module to meet surge level IEC/EN 61000-4-5 ±4 kV (2 Ω internal resistance), ±6 kV (12 Ω internal resistance), and help to meet EN 55022 Class B.



APPLICATION CIRCUIT

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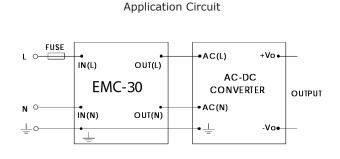


Figure 2

REVISION HISTORY

rev.	description	date
1.0	initial release	10/26/2018

The revision history provided is for informational purposes only and is believed to be accurate.



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CUI offers a two (2) year limited warranty. Complete warranty information is listed on our website.

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CUI products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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