



**CUI INC**

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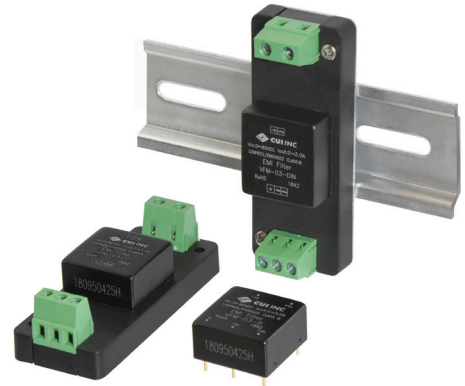
date 01/25/2022

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**SERIES:** VFM-03 | **DESCRIPTION:** DC POWER LINE FILTER

**FEATURES**

- 3 A maximum filter
- frequency attenuation to 20 dB
- available in DIP, Chassis and DIN rail mounting options
- optimized for reducing EMI noise on DC power line

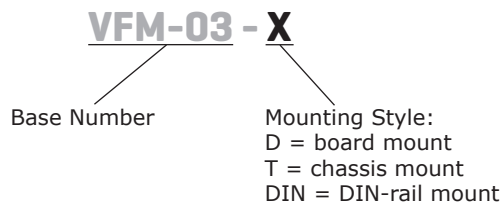


**SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
input voltage		0		80	Vdc
input current				3	A
noise attenuation	at 150 kHz ~ 1 GHz		20		dB
isolation voltage				1,500	Vdc
RoHS	yes				
operating temperature		-40		85	°C
storage temperature		-55		125	°C
storage humidity	non-condensing	5		95	%
case temperature rise	at nominal current			40	°C

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

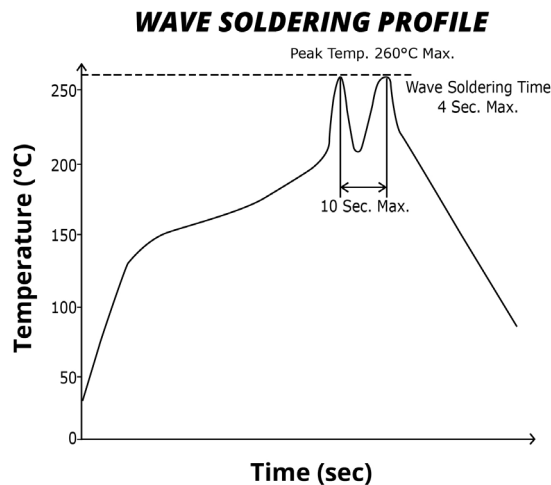
**PART NUMBER KEY**



## SOLDERABILITY<sup>2</sup>

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.



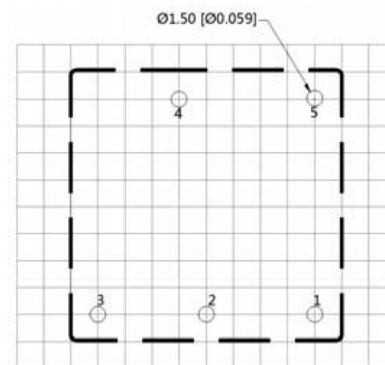
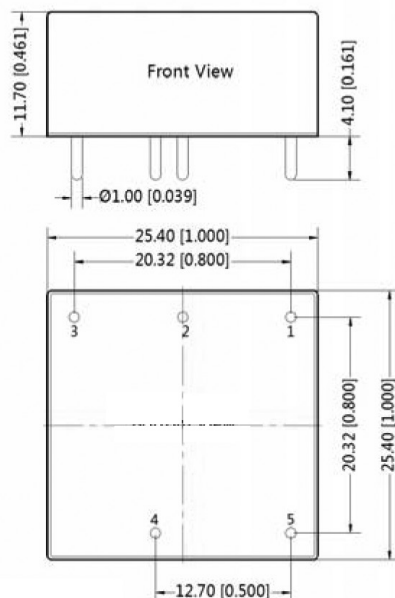
## MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	board mount: 25.40 x 25.40 x 11.70 [1.000 x 1.000 x 0.461 inch] chassis mount: 76.00 x 31.50 x 21.20 [2.992 x 1.240 x 0.835 inch] DIN-Rail mount: 76.00 x 31.50 x 25.80 [2.992 x 1.240 x 1.016 inch]				mm
case material	aluminum alloy				
weight	board mount chassis mount DIN-rail mount		15 35 55		g

## MECHANICAL DRAWING (BOARD MOUNT)

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

PIN CONNECTIONS	
PIN	Function
1	+Vin
2	-Vin
3	GND
4	-Vout
5	+Vout



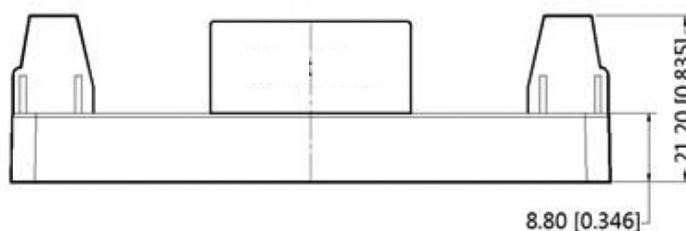
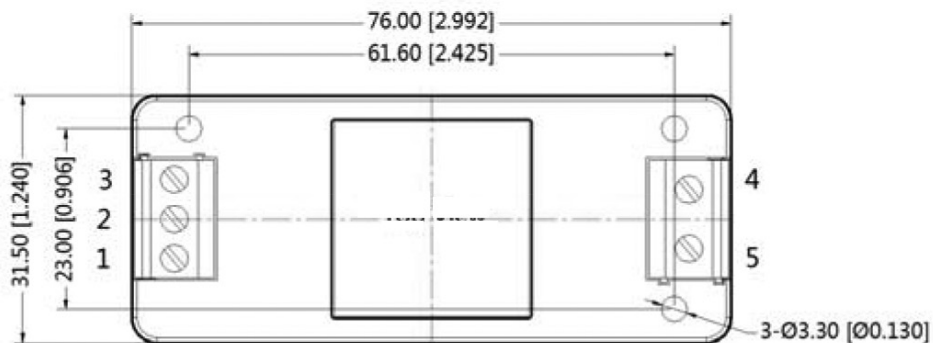
Note: Grid 2.54\*2.54mm  
Recommended PCB Layout  
Top View

## MECHANICAL DRAWING (CHASSIS MOUNT)

units: mm [inch]  
tolerance:  $\pm 0.50[\pm 0.020]$

wire range: 24~12 AWG  
tightening torque: 0.4 N\*m max

PIN CONNECTIONS	
PIN	Function
1	+Vin
2	-Vin
3	GND
4	-Vout
5	+Vout

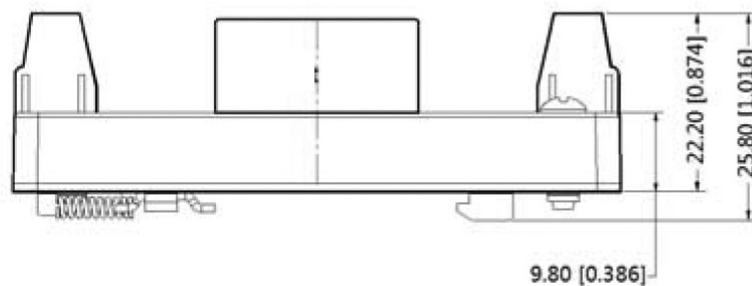
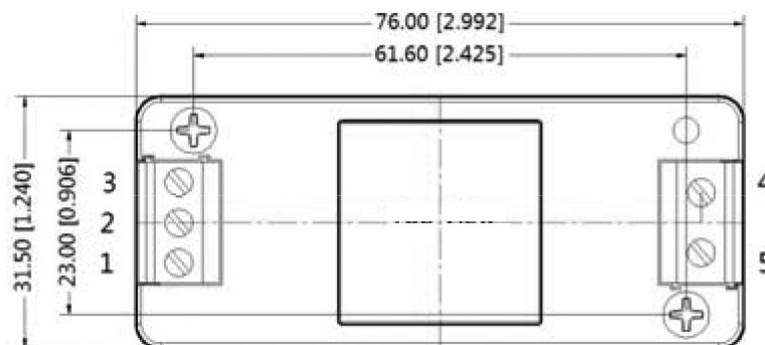


## MECHANICAL DRAWING (DIN-RAIL MOUNT)

units: mm [inch]  
tolerance:  $\pm 0.50[\pm 0.020]$

installed on DIN rail TS35  
wire range: 24~12 AWG  
tightening torque: 0.4 N\*m max

PIN CONNECTIONS	
PIN	Function
1	+Vin
2	-Vin
3	GND
4	-Vout
5	+Vout



## APPLICATION CIRCUIT

Figure 1  
Application Circuit

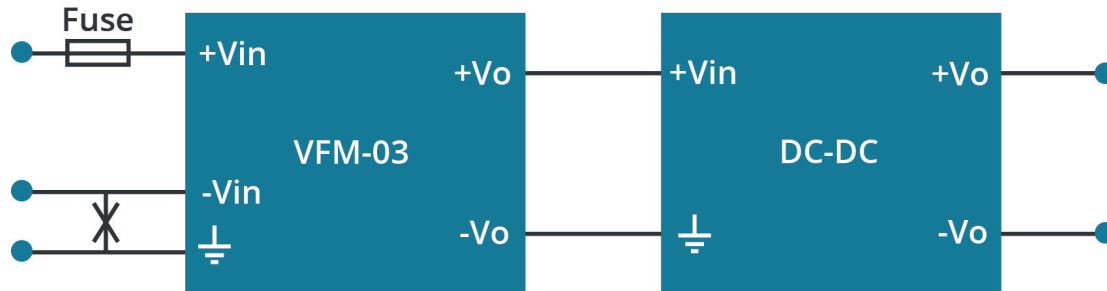
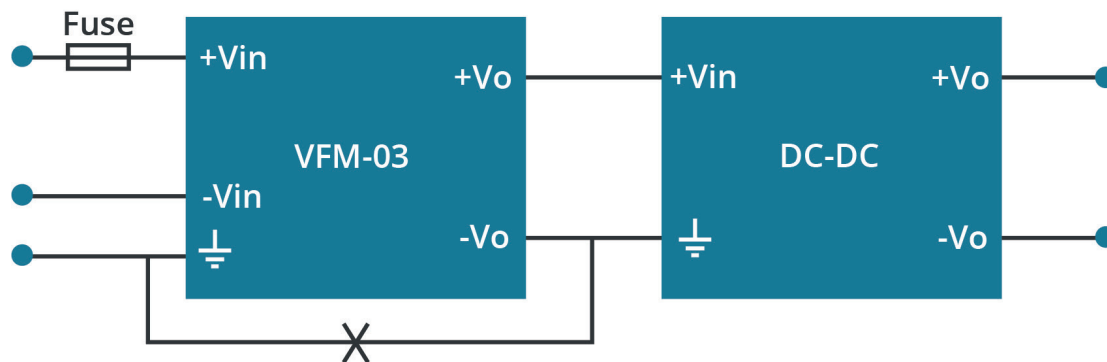


Figure 2  
Non-supported Application for Module



## REVISION HISTORY

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rev.	description	date
1.0	initial release	12/17/2018
1.01	circuit figures updated, packaging removed	01/25/2022

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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