CUI INC
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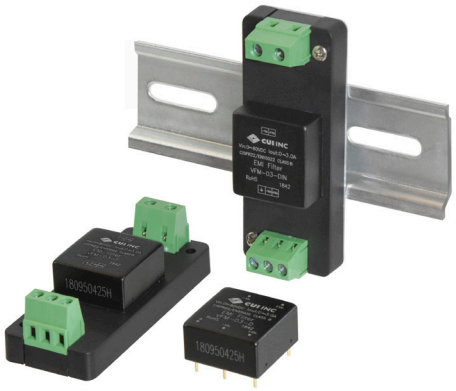
SERIES: VFM-03 | DESCRIPTION: DC POWER LINE FILTER

FEATURES

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



RoHS

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

VFM-03 - X

Base Number

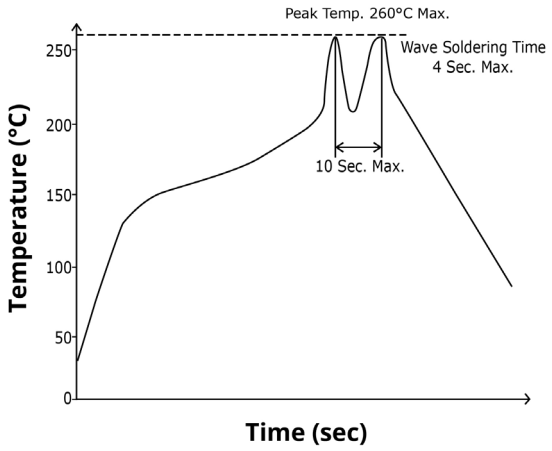
Mounting Style:
D = board mount
T = chassis mount
DIN = DIN-rail mount

SOLDERABILITY[2]

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.

WAVE SOLDERING PROFILE



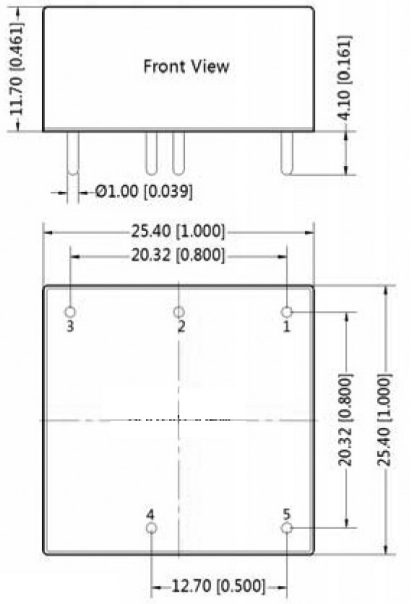
MECHANICAL

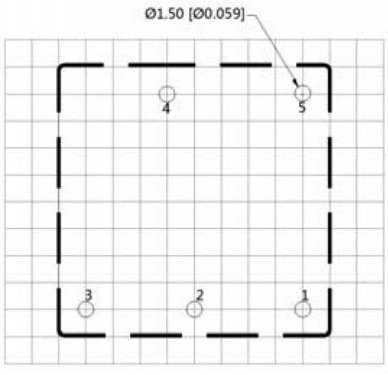
parameter	conditions/description	min	typ	max	units
dimensions	board mount: 25.40 x 25.40 x 11.70 [1.000 x 1.000 x 0.461 inch]				mm
	chassis mount: 76.00 x 31.50 x 21.20 [2.992 x 1.240 x 0.835 inch]				mm
	DIN-Rail mount: 76.00 x 31.50 x 25.80 [2.992 x 1.240 x 1.016 inch]				mm
case material	aluminum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

MECHANICAL DRAWING (BOARD MOUNT)

units: mm [inch]
tolerance: ±0.50[±0.020]
pin diameter tolerance: ±0.10[±0.004]
pin height tolerance: ±0.50[±0.020]

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





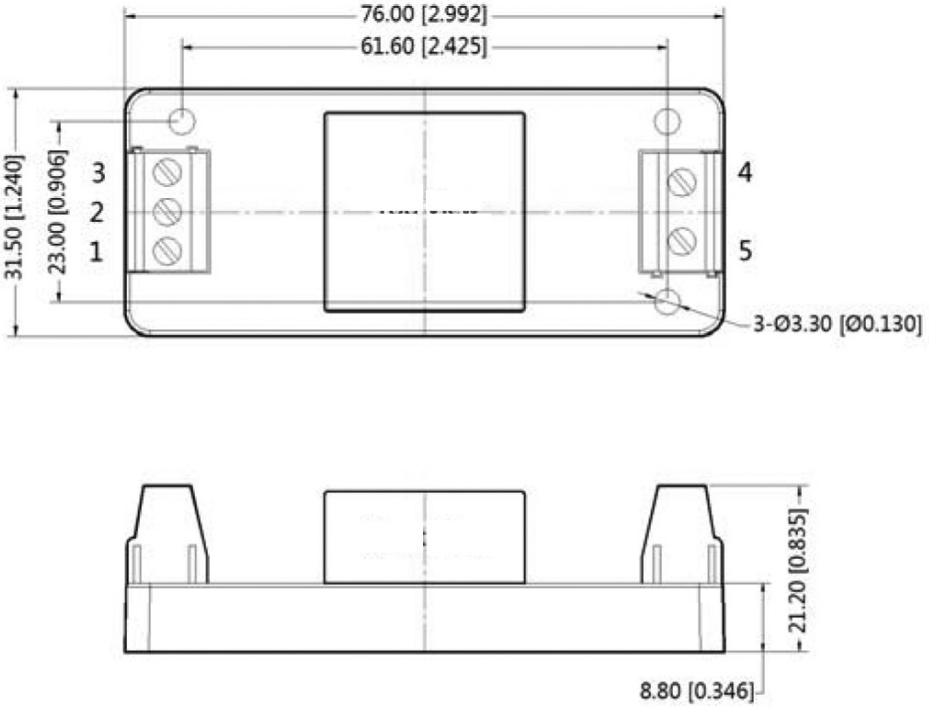
Note:Grid 2.54*2.54mm
Recommended PCB Layout
Top View

MECHANICAL DRAWING (CHASSIS MOUNT)

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

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

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

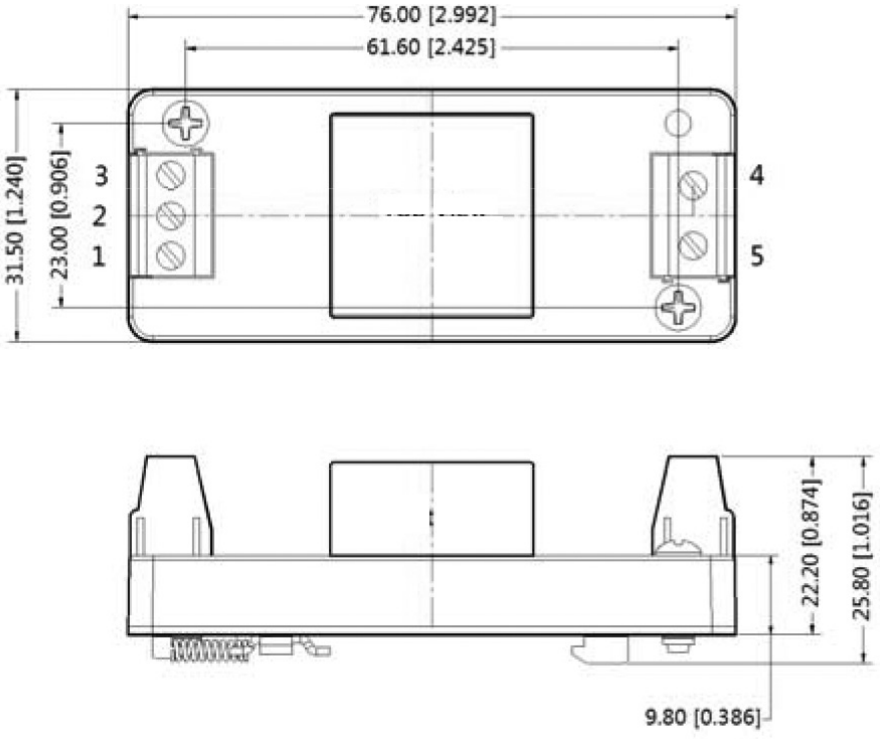


MECHANICAL DRAWING (DIN-RAIL MOUNT)

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

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

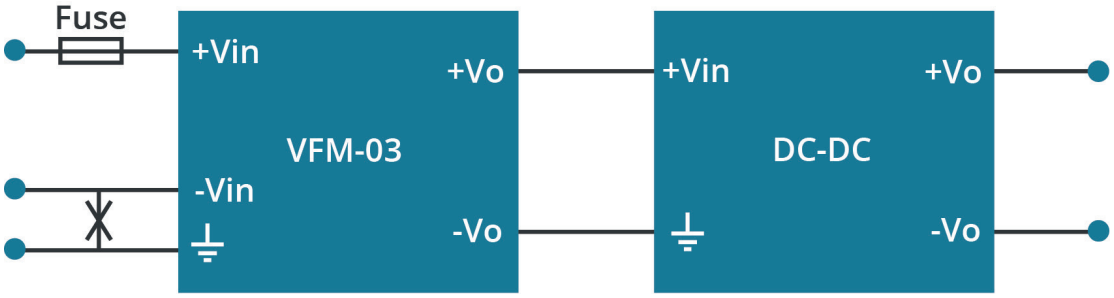
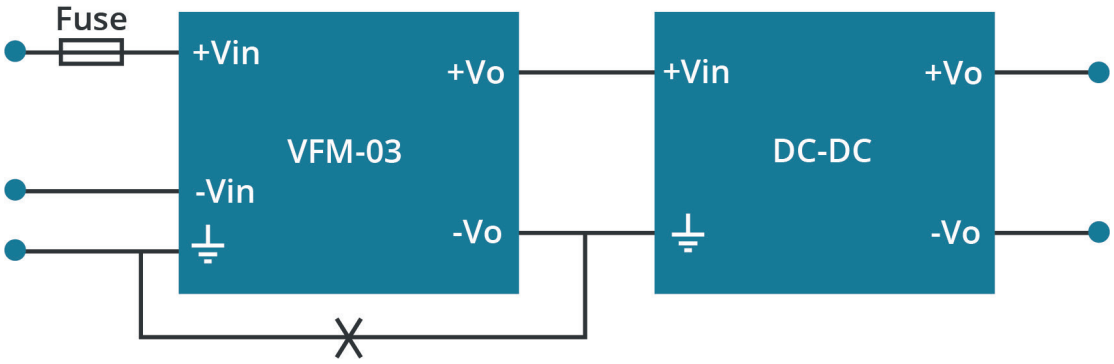


Figure 2
Non-supported Application for Module



REVISION HISTORY

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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