Descriptions EMC Filter



RoHS

3 Years Warranty

Features

- Compact size
- Restrain line disturb of DC power source
- The attenuation coefficient of frequency meet 20dB
- Cost-effective
- Low Temperature Rise
- Mounting: PCB mounting, chassis mounting with screw terminals, DIN-Rail mounting

Applications

- analog circuit

Selection Guide

Model	Input Voltage Range (VDC)	Nominal Current (A)(Max)
EFP1D03	0-80	3.0
Note: series with suffix "A2S" are chassis mounting, with suffix "A4S" are DIN-Rail mounting, for example EFP1D03A4S.		

Specifications

Product Specifications	Item	Operating Conditions	Min.	Typ.	Max.	Unit
General Specifications	Operating Temperature		-40	--	85	℃
	Storage Temperature		-55	--	125	
	Welding Temperature	Wave soldering welding,10 seconds MAX	+255	+260	+265	
	Storage Humidity		5	--	95	%
	Casing Temperature Rise	Nominal Current	--	--	40	℃
	Withstand Voltage to GND		--	--	1500	VDC
	D·C·R	Input - Output	--	30	--	mΩ
Mechanical Specifications	Casing Material	Aluminum Alloy				
	Package Dimensions	Horizontal package			25.40x25.40x11.70 mm	
		A2S wiring package			76.00x31.50x21.20 mm	
		A4S rail package			76.00x31.50x25.80 mm	
	Weight	Horizontal package/A2S wiring package/A4S rail package			15g/35g/55g(Typ)	

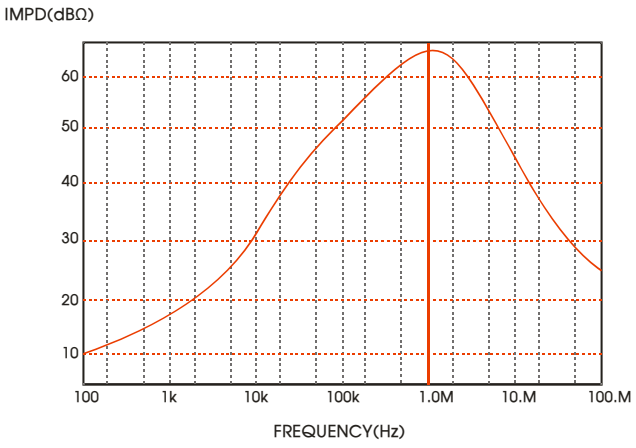
Frequency Impedance Specifications

Item	Test Conditions	Min.	Typ.	Max.	Unit
Im	150KHz~100 MHz	--	20	--	dBΩ

Devise Standard

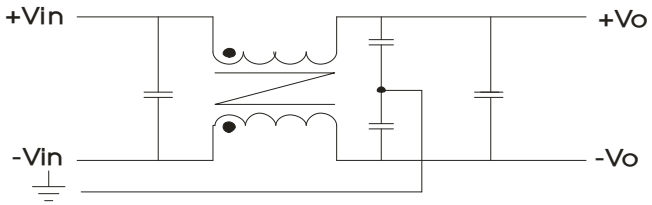
EFP1D03 can ensure DC/DC converter module with 3A input current EMI meet EN 55032 Class B.

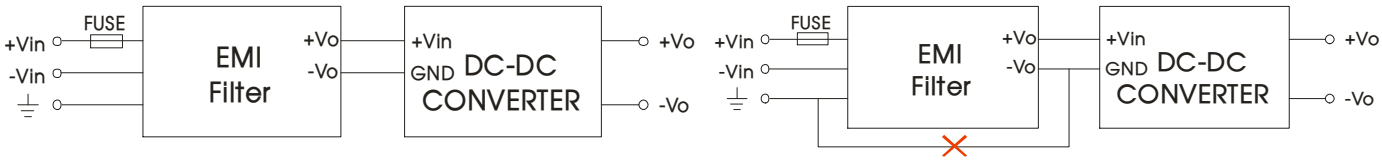
Impedance Specifications



Design Reference

1. Inside schematic

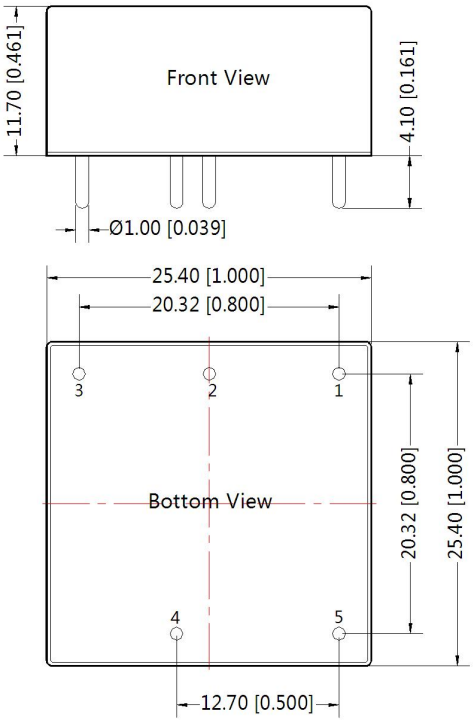




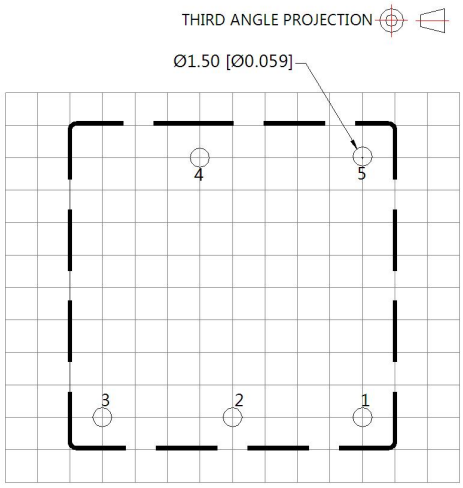
FUSE: Due to the difference of the power module input current, the fuse of the recommended values, please refer to the Technical Manual for the power module.

Note: This application is not supported for this series.

EFP1D03 Dimensions and Recommended Layout



Note:
Unit :mm[inch]
Pin diameter tolerances :±0.10[±0.004]
Pin height tolerances :±0.50[±0.020]
General tolerances:±0.25[±0.010]

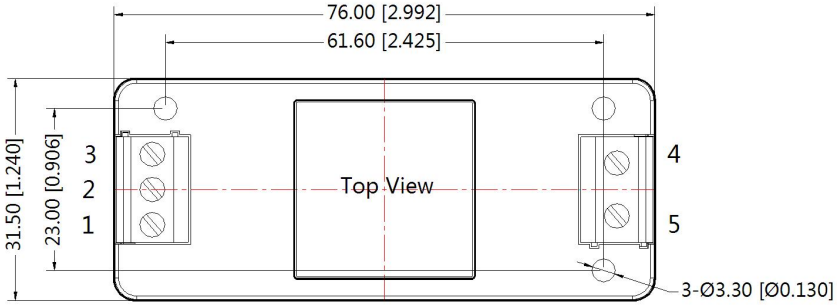


Note:Grid 2.54*2.54mm

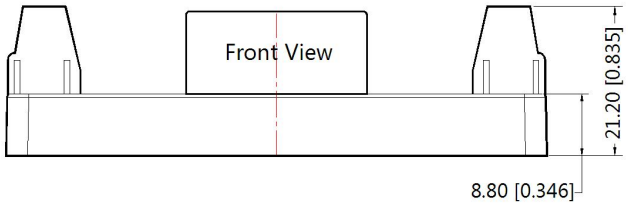
Pin-Out	
Pin	Function
1	+Vin
2	-Vin
3	GND
4	-Vo
5	+Vo

EFP1D03A2S Dimension

THIRD ANGLE PROJECTION



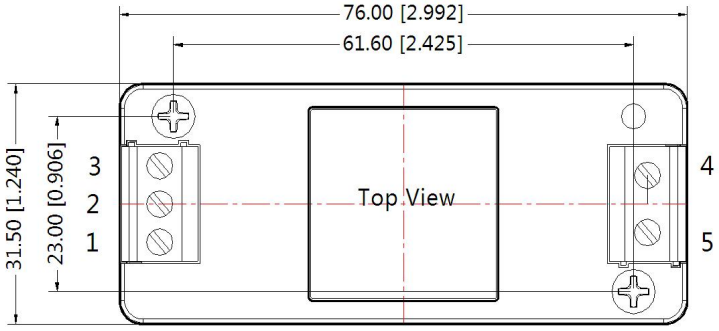
Pin-Out	
Pin	Function
1	+Vin
2	-Vin
3	⏚
4	-Vo
5	+Vo



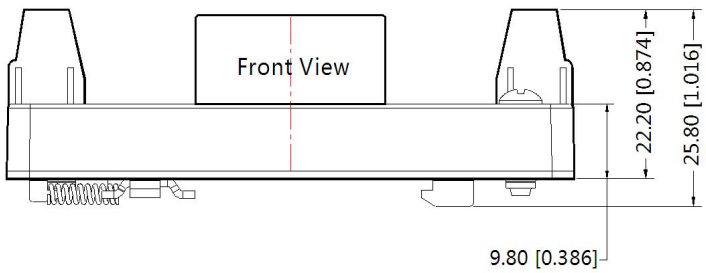
Note:
Unit:mm[inch]
Wire range:24~12 AWG
General tolerances:±0.50[±0.020]

EFP1D03A4S Dimension

THIRD ANGLE PROJECTION



Pin-Out	
Pin	Function
1	+Vin
2	-Vin
3	GND
4	-Vo
5	+Vo



Note:
Unit:mm[inch]
Wire range:24~12 AWG
General tolerances:±0.50[±0.020]

Notes:

1. Unless otherwise specified, data in this data sheet should be tested under the conditions of Ta=25℃, humidity<75%;
2. All index testing methods in this datasheet are based on our Company's corporate standards;
3. 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;
4. Specifications of this product are subject to changes without prior notice.