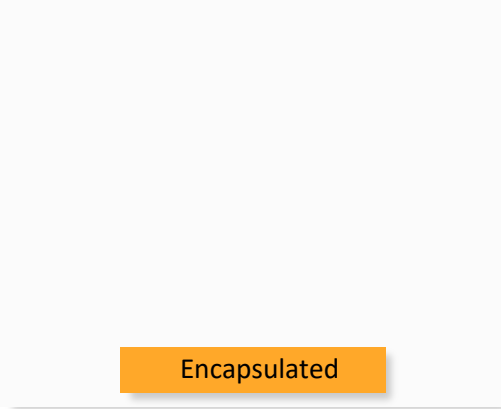




AMFCB-NZ



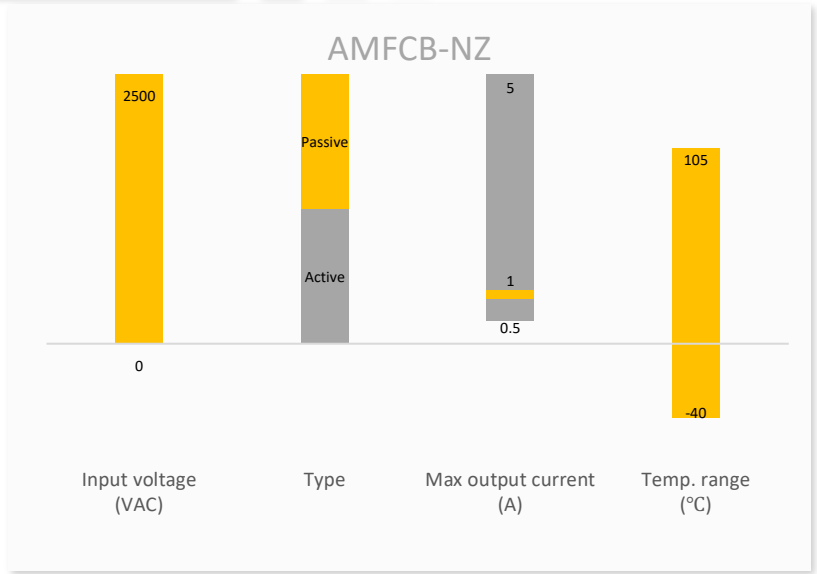
Encapsulated

This common mode filter choke can be used in common filters to the analog circuits, which is more sensitive to noise and EMC. The adding AMFCB-NZ can substantially reduce the part noise and can substantially improve EMS performance. This common mode filter choke comes with 2500VAC isolation with max input current up to 1A.

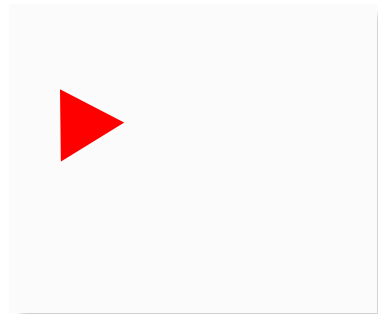
Features

- Operating Temp: -40 °C to +105 °C
- Max Input Current Up To 1.0A

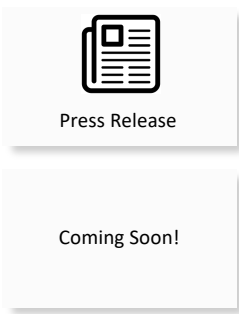
Summary



Training



Product Training Video  
(click to open)



Application Notes

Applications



Power Grid



Industrial



Telecom



Instrumentation

## Models & Specifications

### Models

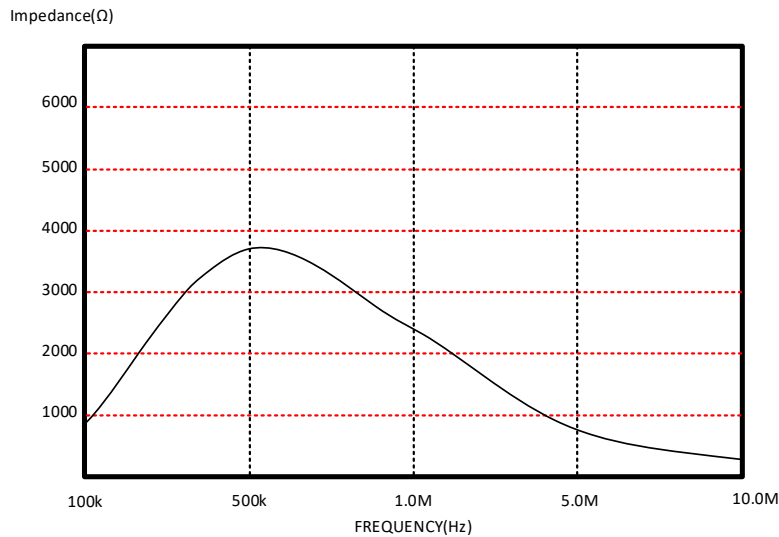
Model	Inductance (uH)	Max current (A)	DCR (mΩ)	Weight (g)	Size (L*W*H)
AMFCB3-1NZ	3000*4	1.0	170*4	17	See Figure 1

### General Specifications

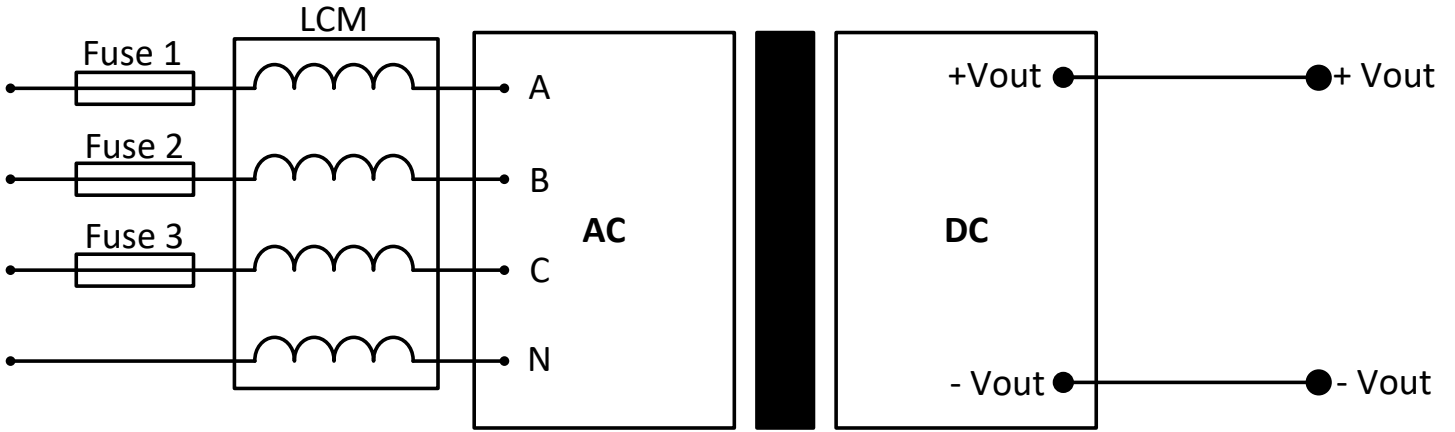
Parameters	Conditions	Typical	Maximum	Units
Operating temperature		-40 to +105		°C
Storage temperature		-40 to +105		°C
Storage Humidity			95	%RH
Inductance	Fosc=10KHz, Vosc=0.1V	≥ -40	+50	%
Withstand Voltage	Any two phase, Leakage current Io=5mA		2500	VAC

NOTE: Operating temperature range includes inductor self-heating.

## Attenuation specifications

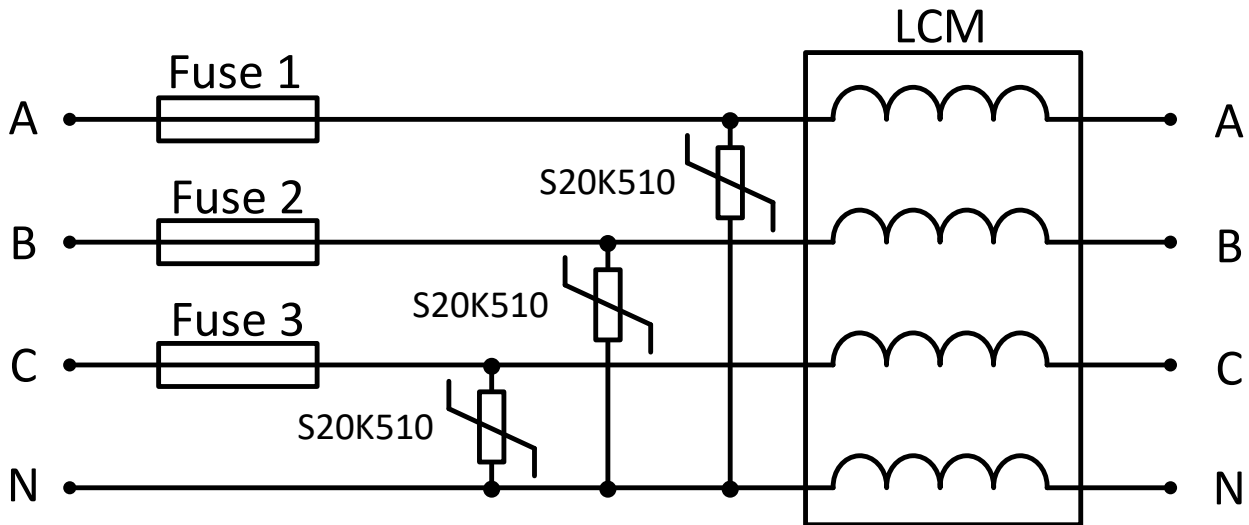


Typical Application Circuit



	Fuse 1, Fuse 2, Fuse 3
Three phase four wire input	3.15A/250V
Any phase input	3.15A/500V

Recommended EMC Circuit



	Fuse 1, Fuse 2, Fuse 3
Three phase four wire input	3.15A/250V
Any phase input	3.15A/500V

Dimensions

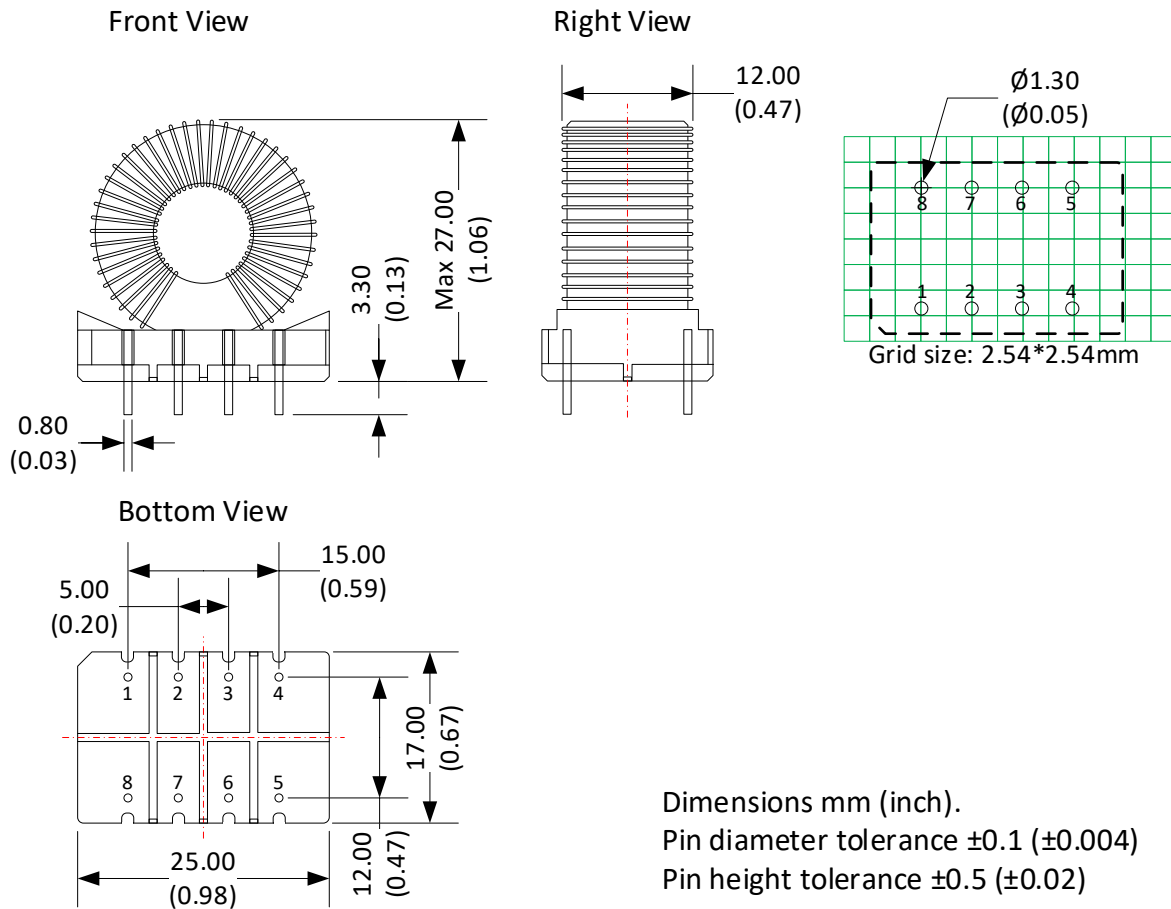
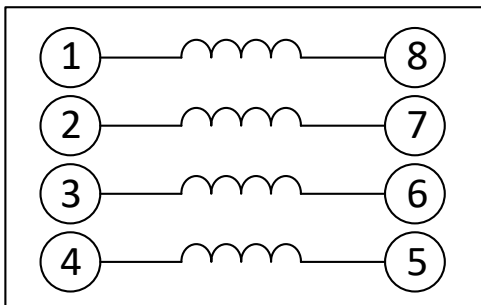


Figure 1



**NOTE:** 1. Datasheets are updated as needed and as such, specifications are subject to change without notice. Once printed or downloaded, datasheets are no longer controlled by Aimtec; refer to [www.aimtec.com](http://www.aimtec.com) for the most current product specifications. 2. Product labels shown, including safety agency certifications on labels, may vary based on the date manufactured. 3. Mechanical drawings and specifications are for reference only. 4. All specifications are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified. 5. Aimtec may not have conducted destructive testing or chemical analysis on all internal components and chemicals at the time of publishing this document. CAS numbers and other limited information are considered proprietary and may not be available for release. 6. This product is not designed for use in critical life support systems, equipment used in hazardous environments, nuclear control systems or other such applications which necessitate specific safety and regulatory standards other the ones listed in this datasheet. 7. Warranty is in accordance with Aimtec's standard Terms of Sale available at [www.aimtec.com](http://www.aimtec.com).