

# Ground EMI Filter

## DIN Rail Mounted

### Protect Your Ground From High-Frequency Noise

Unwanted signals on ground (or “earth”) commonly cause equipment malfunction, data errors, and even component damage. Ground connects all equipment in your facility in one network — all it takes is one faulty, excessively “noisy,” or miswired tool anywhere to inject unacceptably high levels of electrical noise into your ground network. Ground is supposed to be an absolute zero reference for all electronic; high-frequency signals on ground make this reference fluctuate causing all kinds of problems.

OnFILTER’ ground line filters block propagation of EMI while maintaining integrity and safety of your grounding. These patented filters help to protect your sensitive equipment from adverse effects of EMI. Connect your equipment to a facility ground via this filter to provide clean ground connection to your sensitive tool.

Filters are very easy to install and they require no maintenance.



### Applications

- Industrial control
- Oil and gas industry
- Military
- Electrical panels
- Automated tools
- Medical
- Photovoltaic / Solar
- Semiconductor fabrication
- Electronic assembly
- LED lighting
- Wherever EMI is a concern

### Features

- Easy installation
- Optimized for ground lines
- Effective noise suppression for all types of noise
- Safety compliant
- Applications for equipment with current consumption up to 30A

### Noise-Free Ground

OnFILTER’ ground line filters reduce equipment downtime caused by EMI and increase its performance and productivity by providing clean ground reference for your sensitive electronics

### Improving Operation in Adverse EMI Environment

Industrial equipment can inject high-levels of EMI in ground, polluting the entire ground network in the tool, or in the facility. PWM motors (servo, VFD) are especially prone to pollute ground with EMI. You can use GLE30-1 to isolate ground to such parts of your equipment from contaminating the entire tool

### Compliance with Safety Standards

Ground is a safety element, and safety is always a priority. Patented GLE30-1 filters are safety-certified and can be used with any equipment or in any circuit consuming up to 30A

### Wide Range of Applications

GLE30-1 can be used in many ways—filtering ground to a particular piece of equipment, block EMI from getting to specific sensitive part of equipment, or provide filtering for entire grounding network

## Ground EMI Filter GLE30-1

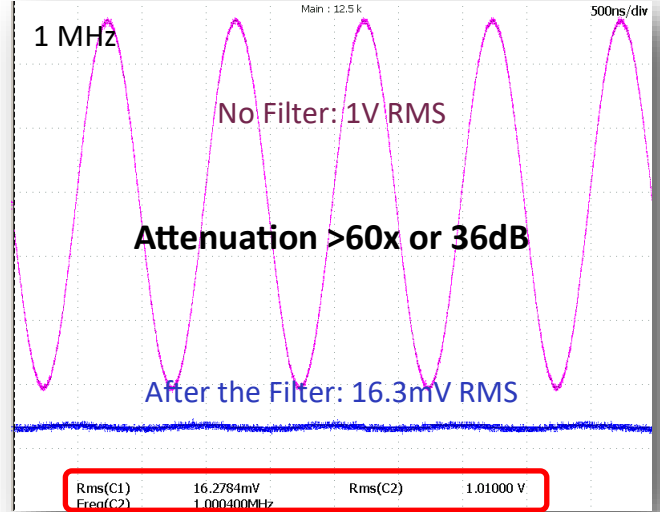


## Specification

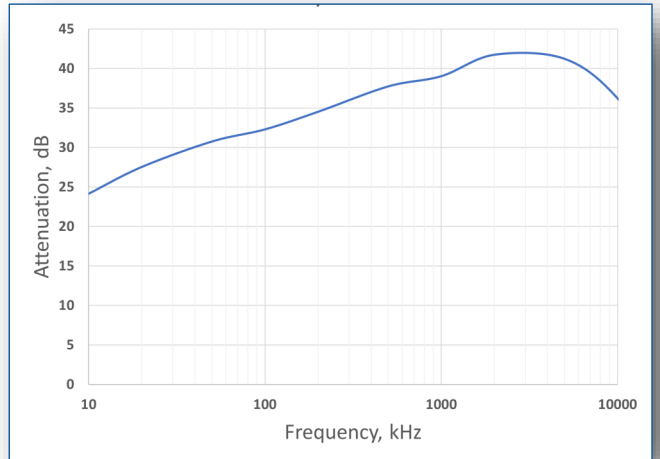
OnFILTER filters utilize patented and proprietary technology to provide maximum noise suppression in actual installations, not just in the controlled laboratory environment.

Parameter	DCNG5009N
Rated Max. Current, RMS	30A
Power Line Frequency	50/60 Hz
DC Resistance	<0.2 Ohms
External Wire Gage	AWG14...6 1.6...4.1mm diameter
Dimensions (WxDxH)	2.56"x5.63"x1.75" (67x143x44mm)

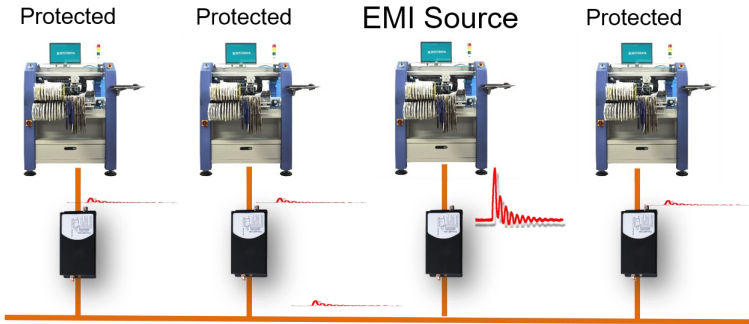
## Typical Time-Domain Data



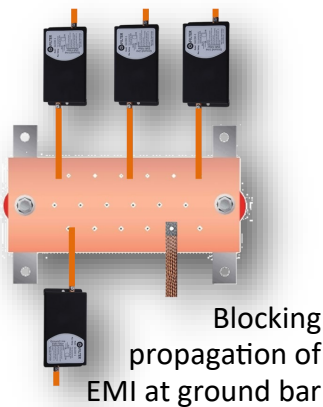
## Typical Frequency Domain Data



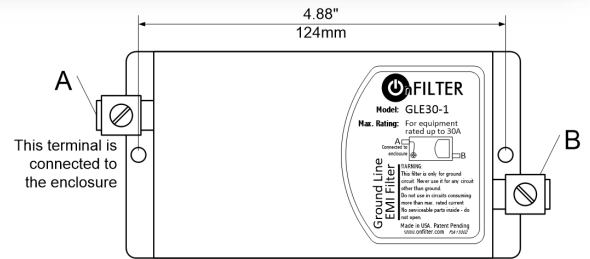
## Connection Examples



Grounding of equipment to facility ground



Facility ground under raised floor



Mounting dimensions



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## Ordering Information

**Ground EMI Filter Model: GLE30-1**

