

Ground EMI Filter

DIN Rail Mounted

Protect Your Ground From High-Frequency Noise

Unwanted high-frequency signals (EMI—electromagnetic interference) 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 mis-wired 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
- Electrical panels
- Automated tools
- Military
- 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
- Designed for safety
- 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 GLV30-1 to isolate ground to such parts of your equipment from contaminating the entire tool (see also our servo/VFD motor filters)

Compliance with Safety Standards

Ground is a safety element, and safety is always a priority. Patented GLV30-1 filters are designed for safety and can be used with any ground circuit with equipment consuming up to 30A

Wide Range of Applications

GLV30-1 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 GLV30-1 DIN Rail Mount

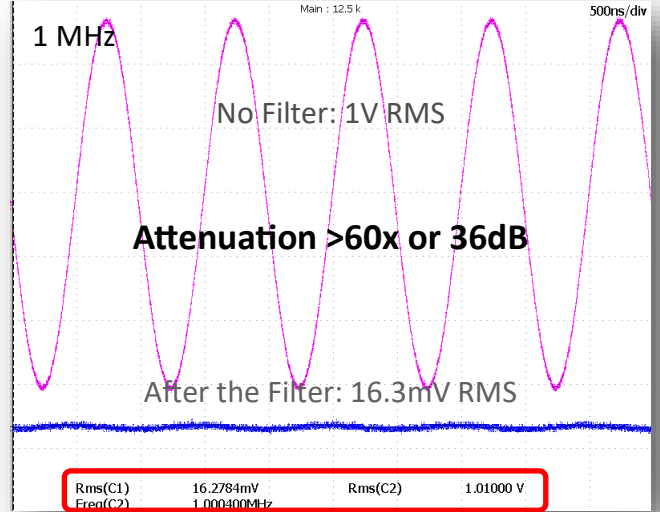


Specification

OnFILTER ground EMI filter provides substantial reduction in propagation of noise in ground circuits protecting proper operation of sensitive electronics.

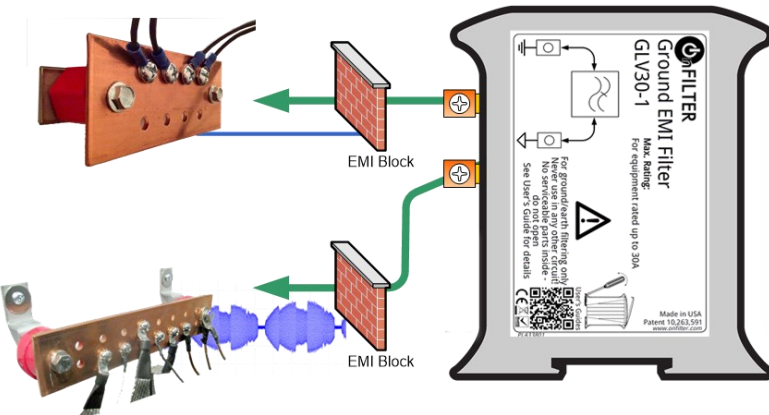
Parameter	GLV30-1
Rated Max. Current, RMS	30A
Power Line Frequency	50/60 Hz
DC Resistance	<0.2 Ohms
External Wire Gage	AWG14...6 1.6...4.1mm diameter
DIN Rail Case Width	35mm (1.38")

Typical Time-Domain Data

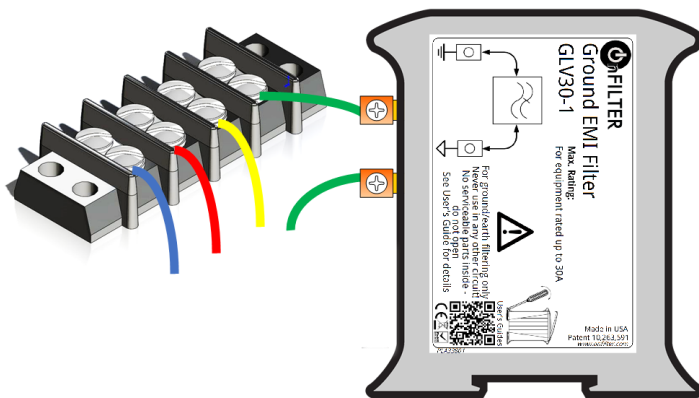


Typical Connections

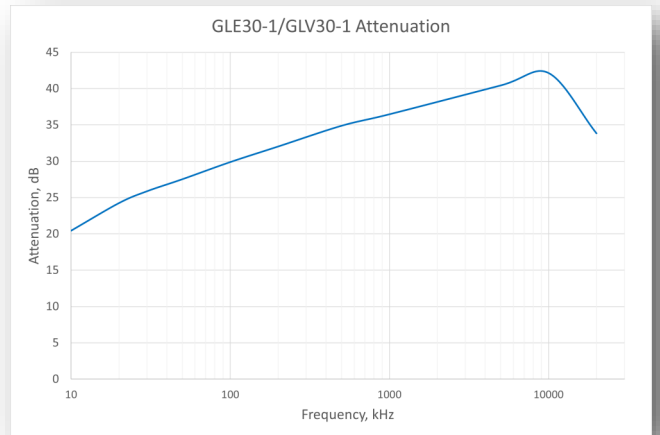
Blocking EMI between two ground circuits



Blocking EMI from facility ground



Typical Frequency Domain Data



Need panel-mounted ground filter? See our GLE30-1 with identical performance



OnFILTER, Inc.
730 Mission Dr. Ste. 102
Santa Cruz, CA 95060 U.S.A.
Tel. +1.831.824.4052
FAX +1.206.350.7458
www.onfilter.com
info@onfilter.com

Ordering Information

Ground EMI Filter Model: GLV30-1

