

Ground EMI Filter

For Facility and Equipment

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

GLE30-1 Offers: 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 Equipment 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 to UL1283 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 blocking EMI for entire grounding network

Ground EMI Filter GLE30-1

UL 508A Compliant

GLE30-1 is certified to UL1283/IEC60939

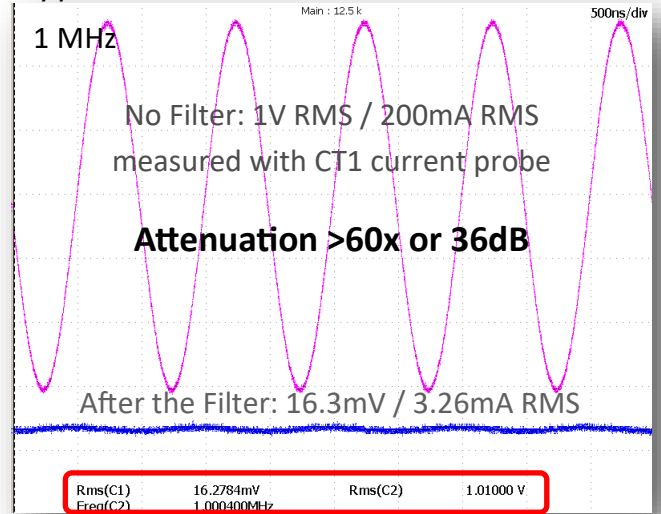


Specification

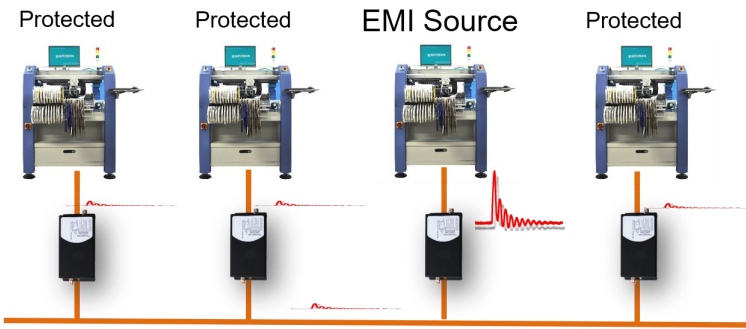
OnFILTER filters utilize patented and proprietary technology to provide maximum noise suppression in actual installations, not just in the controlled laboratory environment.

Parameter	GLE30-1
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
Dimensions (WxDxH)	2.56"x5.63"x1.75" (67x143x44mm)

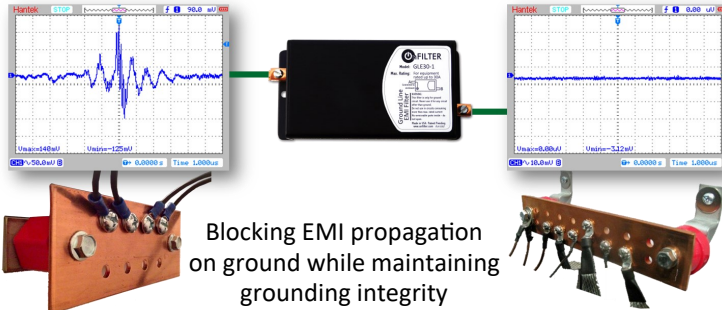
Typical Time-Domain Data



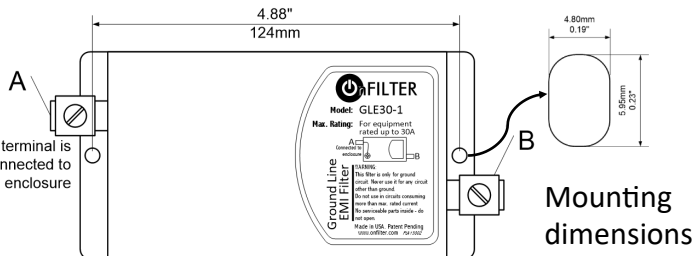
Connection Examples



Grounding of equipment to facility ground



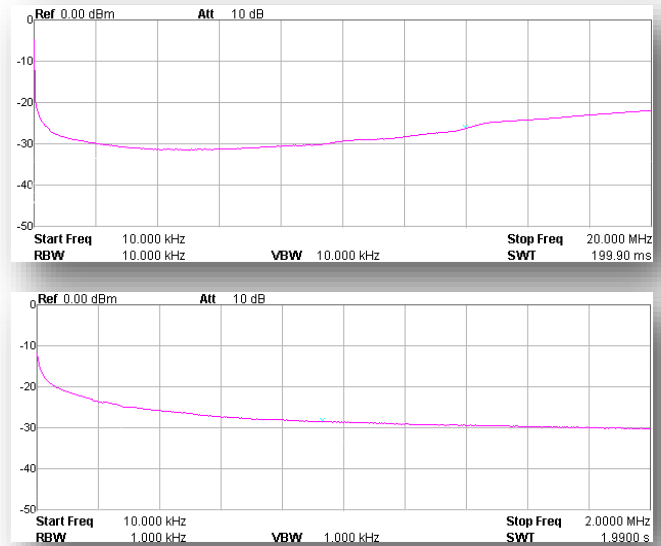
Blocking EMI propagation on ground while maintaining grounding integrity



Ordering Information

Ground EMI Filter Model: GLE30-1

Typical Frequency Domain Data



Need DIN rail-mounted ground filter? See our GVE30-1 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

