

# Ground Line EMI Filter GLE30-1

## Protect Your Ground From High-Frequency Noise

Noise on ground is one of the most common causes of problems with equipment operation and, occasionally, component damage. Ground connects all equipment in your facility in one network and all it takes is one faulty or miswired tool anywhere to inject unacceptable high levels of electrical noise into your ground network.

OnFILTER' ground line filters help to protect your sensitive equipment from this ground noise. In one application connect your equipment to a facility ground via this filter to provide clean ground connection to your sensitive tool. In another application insert GLE30-1 in your facility' ground network on periodic intervals to stop propagation of noise via ground network.

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

Do not connect GLE30-1 in any circuit other than ground.



### Applications

- Electronic manufacturing
- Semiconductor fabrication
- Disk drive assembly
- Industrial robotics
- Medical
- Military
- Wherever EMI is an issue

### Features

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

### Increased Up-Time

OnFILTER ground line filters reduce equipment downtime caused by EMI and increase its performance and productivity by providing clean power to your sensitive tools.

### Transient Noise Suppression

Most of the noise on power and ground lines is not continuous waveforms of high frequency but rather "spikes" generated by solenoids, relays, stepper and variable-frequency motors and alike. The peak value of these spikes can be very strong reaching several volts. OnFILTER' filters are especially effective for this type of signals.

### Wide Range of Applications

OnFILTER ground line filters work with all types of equipment. They provide very low impedance for 50/60Hz current while blocking high-frequency noise. Equipment consuming up to 30A can use ground line filters for better performance.

Use GLE30-1 only in ground circuit - never use it in power lines.

## Ground Line Filter Model GLE30-1

# Specification

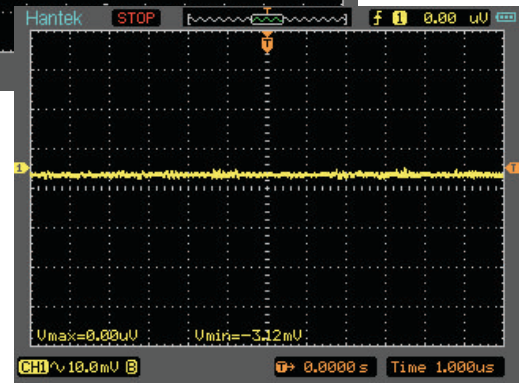
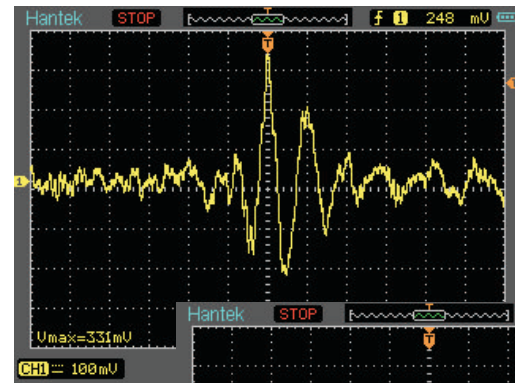
Parameter	Value
Max. Rated Current of Equipment, RMS	30A
DC Resistance	<1 Ohm
External Wire Gage	AWG 16...4 (1.6...4.1mm)
Dimension (W*D*H) including terminals	2.56"x5.63"x1.75" 67*143*44mm

**Typical Attenuation Into 10 Ohms Load**

## Noise Reduction on Ground with GLE30-1

Without GLE30-1



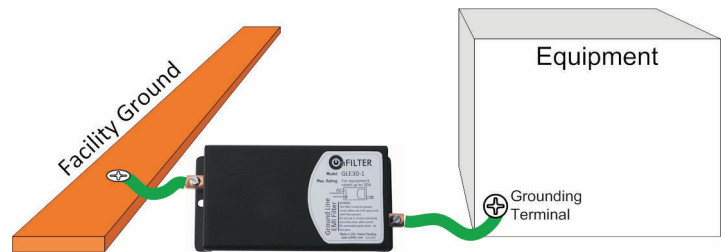
With GLE30-1

## Example of Application: Facility Ground Bars



Ground Line Filter GLE30-1 is installed on intervals in the facility grounding - either bars or wires. GLE30-1 blocks EMI from propagating to the other sections of facility ground.

## Example of Application: Equipment Ground



Ground Line Filter GLE30-1 is installed in grounding circuit of equipment. It prevents noise from entering equipment from ground and from noisy equipment into facility ground.

## Ordering Information

Ground Line Filter  
Model **GLE30-1**



**OnFILTER, Inc.**  
730 Mission St. 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