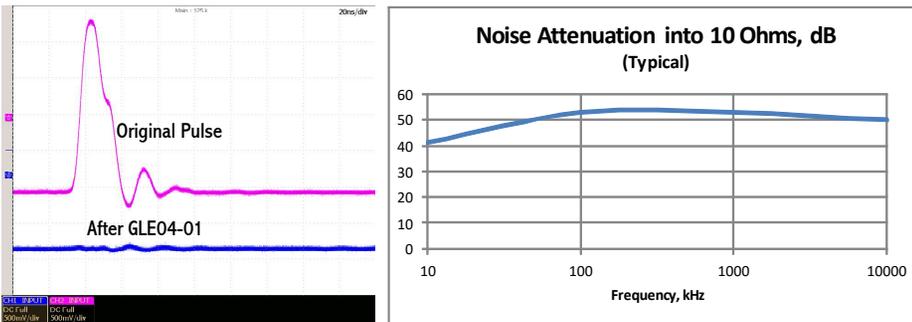
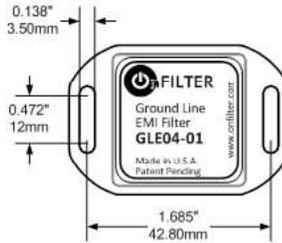
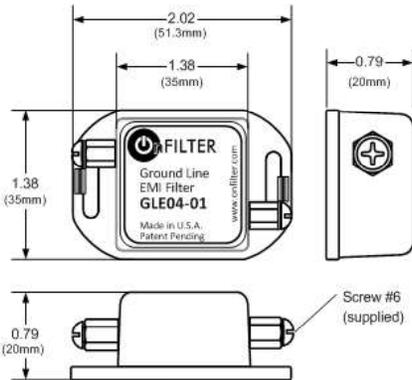


## Specification

|   |   |
|---|---|
| Application   | Non current-carrying ground circuits                  |
| Nominal DC Resistance   | <0.2 Ohms   |
| Noise Attenuation (typ.)  | > 40dB (100 times)                                    |
| Connections Screw   | #6 (supplied with ring terminal)                      |
| Polarity  | Non-polar   |
| Dimensions  | LxWxD 2.02" x 1.378" x 0.787"<br>51.3mm x 35mm x 20mm |
| Material  | ABS plastic   |
| Temperature Range   | 5°C...40°C  |
| Climatic Category   | +5/040/00   |
| Extended temperature range and other configuration models available - contact factory |   |



Impulse response of GLE04-01  
(into 10 Ohms load)



# Ground Line EMI Filter GLE04-01



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## User's Guide



RECOGNIZED  
COMPONENT



All specifications are subject to change without notice. Patent Pending. Made in U.S.A.

## Thank you for buying OnFILTER's Ground Line EMI filter!

Our Ground Line EMI filters are designed to effectively suppress high-frequency electrical noise on ground. This noise (often called conducted ElectroMagnetic Interference - EMI) causes numerous equipment malfunctions, including lock-up, erratic response, software errors, and other often "unexplained" and "random" equipment behavior, as well as electrical overstress (EOS) of sensitive electronics.

EMI on ground is common in industrial environment because grounding connects all equipment together and serves as a conduit for propagation of electrical noise throughout the entire facility. The only practical way to deal with it is by using properly-designed filters. For more details on this subject please visit Library section on OnFILTER' web site [www.onfilter.com](http://www.onfilter.com).

### Safety First!

Miniature Ground Line EMI Filter GLE04-01 is designed to work with parts of the tools that do not use electric power similar to those that are grounded for ESD purposes. Examples would include robotic arms, actuators, etc. Do not connect GLE04-01 in ground line of a motor or other electrical device. OnFILTER offers other models for that purpose.

Ground Line EMI Filters shall never be used in any circuit other than ground. Do not use the filter in circuits that intentionally carry current, such as phase ("live"), neutral, DC power or other lines.

Grounding is a safety element, therefore anything dealing with grounding of equipment must be done by trained professionals and verified. Improperly done or missing ground can cause equipment malfunction or damage, injury to personnel or death. Make sure that implementation of Ground Line EMI Filter is done by trained electrician.

#### WARNING:

This filter is only for ground circuit. Never use it for any circuit other than ground.  
Do not use in circuits consuming more than max. rated current  
No serviceable parts inside - do not open.  
Climatic category +05/040/00.  
Rated temperature 5°C to 40°C  
Not for household use

#### AVERTISSEMENT

Ne pas dépasser limites maximale - il peut causer une surchauffe  
Ne rien placer sur le dessus de l'appareil lors de son fonctionnement pour éviter la surchauffe  
Catégorie climatique +05/040/00  
Température nominale 5°C à 40°C  
Voir le Guide de l'utilisateur pour plus de détails sur l'installation et le fonctionnement  
Filtre doit être branché dans une prise mise à la terre correctement câblé.  
Aucune pièce réparable - Ne pas ouvrir. Haute tension est présente à l'intérieur  
Terre-borne de terre est destinée à fournir une protection contre les chocs électriques  
Ce filtre est destiné aux applications non dangereux à l'intérieur



## Filter Installation and Connection

### Basics

Ground Line EMI Filter GLE04-01 is a non-polar device. It can be connected in ground line in either direction. Connection is done using screw terminals on the body of the filter and supplied ring terminals to which you would need to crimp your ground wire.

### Filter Placement

Proper placement of the filter helps to assure its continuous operation for a long time. Please follow these requirements for installation:

- Fasten filter on a flat surface with the connections clearly visible and easily accessible.
- Install filter in a dry location away from clutter and debris and from the possibility of spillage, including from floor and bench cleaning, as well as overheating
- Install filter so that it does not interfere with movement of personnel and machinery.
- Do not install filter in close proximity to parts with high temperature.
- Use proper wire gage per safety regulations.
- Make sure that the wire connections are properly fastened. Do not overtighten connection screws - you can permanently damage the filter.

### Filter Care

Normally, filter requires no maintenance and no calibration. It is recommended, though, to periodically inspect filter for overheating, to verify properly tightened connections and to clean its surfaces from dust with dry cloth.

For warranty or other questions contact OnFILTER or its authorized distributors. Full text of warranty can be found in the Library section at [www.onfilter.com](http://www.onfilter.com)

### What is Included

GLE04-01 comes with the following:

- GLE04-01 filter
- Screw #6 with lockwasher - 2 ea.
- Ring terminal for AWG18...22 - 2 ea.
- This User's Guide



### Application Examples

