## CleanSweep® 3A AC Power Line EMI Filters for Soldering Applications

# Reduce Electrical Overstress in Soldering Process

OnFILTER CleanSweep® EMI filters provide noise-free AC power for your workbench. Innovative design accomplishes maximum noise suppression of signals polluting your power lines, lowering harmful highfrequency electrical overstress (EOS) current to a negligible amount.

EOS caused by elecromagnetic interference is caused mostly by noise on your power lines and ground. High levels of EOS cause component damage, including latent damage. Special design of OnFILTER CleanSweep® filters for soldering applications lowers EOS current tens or even hunders of times by filtering out power line and ground noise.

CleanSweep<sup>®</sup> filters are very easy to install - just plug it into the wall outlet, plug your soldering iron into the outlet on the filter and connect ground of your workbench or circuit board to the filter's output ground.



#### Applications

Electronic manufacturing Semiconductor fabrication Disk drive assembly Industrial robotics Military Wherever EOS is an issue

#### Features

Greatly reduced current from soldering irons Easy plug-in installation Optimized for power lines Effective noise suppression for all types of noise CleanSweep® filter family includes models for up to 250V AC 30A

#### Safe Soldering Environment

OnFILTER CleanSweep<sup>®</sup> filters greatly reduce high-frequency current from the tip of soldering irons in presence of noise on power lines and ground and by this greatly reduce highfrequency current from the tip of the iron.

#### Suppression of Noise on Power Lines and Ground

OnFILTER CleanSweep® filters provide suppression for differential (between power line wires) ,common-mode (between power line and ground) and, uniquely, for ground itself

#### **Advanced Surge Protection**

OnFILTER CleanSweep<sup>®</sup> series filters add substantial performance improvements to conventional surge protection by reducing residual "spikes" from over 300V to a negligible level CleanSweep® Power Line AC Filters AP Series for Soldering Applications

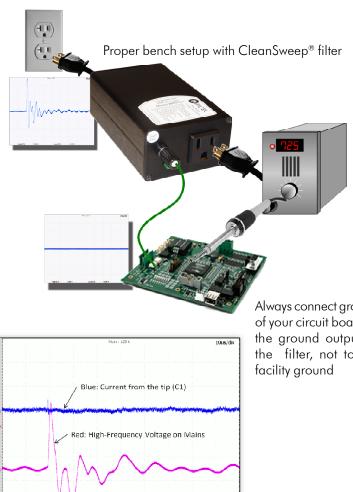


### **Specification**

OnFILTER CleanSweep<sup>®</sup> filters utilize proprietary technology toprovide maximum noise suppression and reduce highfrequency current during soldering.

Parameter	Value
Rated Voltage, RMS	110250V
Rated Current, RMS	3A
Transient Voltage Attenuation (Typical)	40dB (100 times)
Transient Current Attenuation (Typical) Standard models	<3.5mA
Power Indication	LED
Dimensions (WxDxH)	3.12″x1.85″x5.0″ 80mmx47mmx127mm

Other CleanSweep® models include filters for up to 30A RMS and 250V AC with a variety of U.S. and international plug and outlet configurations.



on C1 is 0.168mA (scaling of CT1 probe of 5mA/mV)

-0.73mV

Min(C1) Min(C2)

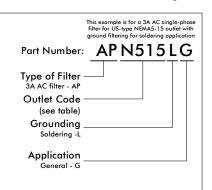
Max(C1) Max(C2)

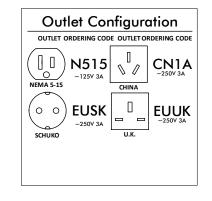
0.84mV 566mV

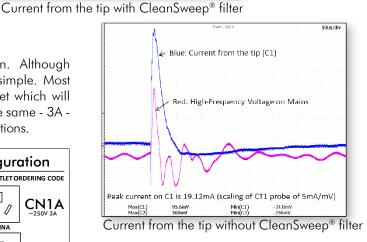
Always connect ground of your circuit board to the ground output of the filter, not to the

## Ordering Information

Please select the type of filter most suitable for your application. Although there are many selection criteria, choosing the right filter is fairly simple. Most important parameter you need to select is the type of an outlet which will define voltage. Current rating for all soldering filter models is the same - 3A which is sufficient for all soldering irons and majority of rework stations.







**Distributor: DOU YEE ENTERPRISES** 





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