CleanSweep®
Single Phase AC Power Line
# EMI Filters for EMI Compliance
Clean Power Free of High-Frequency Noise

OnFILTER CleanSweep® EMI filters provide substantial reduction of electrical noise on power lines emanating from equipment in both test lab and in real-life situations. Innovative design accomplishes maximum noise suppression of signals polluting your power lines, freeing sensitive equipment from harmful interference.

Clean power is essential for uninterrupted and problem-free operation of electrical and electronic equipment. As electromagnetic interference (EMI) spreads through power lines and ground, it causes downtime and errors in today's equipment and may inflict component damage.

Unique design of OnFILTER CleanSweep® series focuses on the properties of real-life signals on power lines and produces maximum attenuation of the "worst offenders" on power lines.

Filters are very easy to install - just plug it into the wall outlet and plug your equipment into the outlet on the filter.
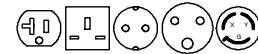
Various configurations available

Applications

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

Features

Excellent suppresion of
low frequency noise
Easy plug-in installation
Optimized for power lines
Effective noise suppression
for differential and common
mode noise
CleanSweep® filter family includes
single and three phase models for
up to 250V AC 30A

Increased Up-Time

OnFILTER CleanSweep® 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 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 CleanSweep® filters are especially effective for this type of signals.

Differential and Common Mode Attenuation

OnFILTER CleanSweep® filters provide suppression for both types of noise - differential (between power line wires) and common-mode (between power line and ground).

Flexible Architecture

OnFILTER CleanSweep® series filters can be configured for different voltages and types of outlets for single and three-phase applications.

CleanSweep®
# Power Line AC Filters
10A 250V Capacity

Specification

OnFILTER CleanSweep® filters utilize proprietary technology to provide maximum noise suppression in actual installations, not just in the controlled laboratory enviroment.

Parameter	Value
Rated Voltage, RMS	110...250V
Rated Current, RMS	10A
Continuous Signal Attenuation (Typical) 50 Ohms Interface	
Low Frequencies	70dB
High Frequencies	55dB
Power Indication	LED
Dimension W*D*H	6.15"x7.0"x3.3" 157*180*84mm
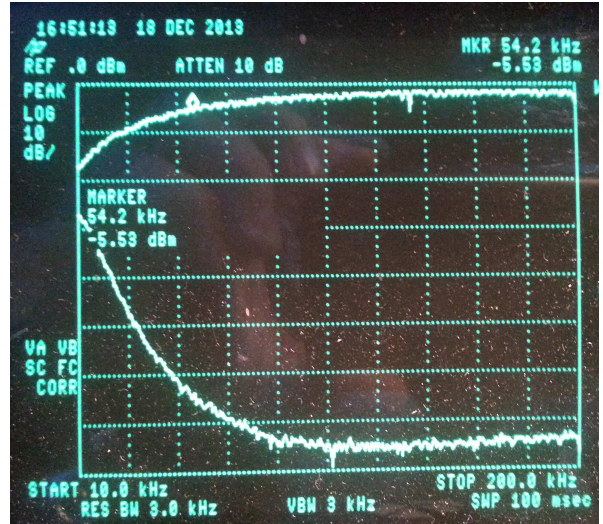
Typical Frequency Response in Common Mode
Top Trace: Input Signal
Bottom Trace: After the Filter
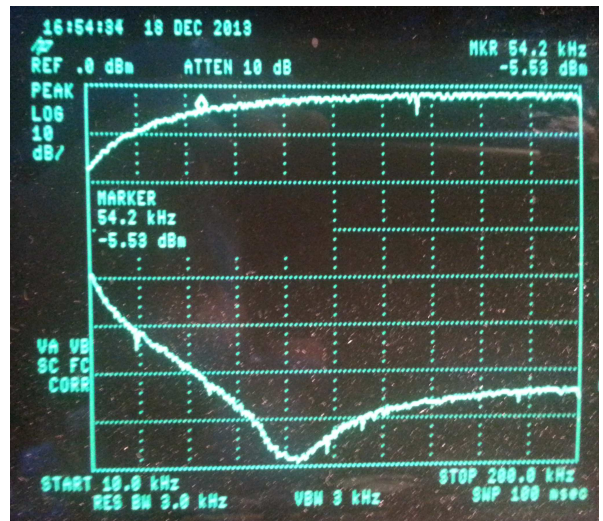
Typical Frequency Response in Differential Mode
Top Trace: Input Signal
Bottom Trace: After the Filter

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. The cable supplied with the filter will have the same type of plug.

Part Number: **AF EUSK FG-D**

This example is for an AC single-phase filter for Schuko 250V 10A outlet

Type of Filter
AC filter - AF

Outlet Code
(see table)

EMC
Application

Single Phase

OUTLET	ORDERING CODE	OUTLET	ORDERING CODE	OUTLET	ORDERING CODE
NEMA 5-15	N515 −125V 10A	NEMA 6-15	N615 −250V 10A	SCHUKO	EUSK −250V 10A
BS546	BS546 −250V 10A	U.K.	EUUK −250V 10A	TERMINAL BLOCK SINGLE PHASE 10A	TS03A
NEMA L5-15	L515 −125V 10A	NEMA L6-15	L615 −250V 10A		

Contact us for other configurations

OnFILTER

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