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Editorial Contact: Suzanne Bowser
sbowser@schurterinc.com

SCHURTER Inc.
447 Aviation Boulevard
Santa Rosa, CA 95403
Tel 707 636 3000
Fax 707 636 3033
www.schurterinc.com

DD12 Filtered Power Entry Module with Extended Mounting Options and Integrated Ground Line Choke for Optimized Suppression of HF Interference

Santa Rosa, California, July 25, 2018 – SCHURTER extends its successful power entry module series DD12 with screw and snap mounting options. An integrated ground line choke for suppressing high-frequency interference on the ground conductor is also a newly featured option.

The DD12 all-in-one fuseholder, switch and EMC filter offers remarkable functionality in a very compact housing. It combines an IEC C14 appliance inlet with a 1- or 2-pole fuseholder, ON/OFF switch, and standard or medical low leakage filter. The wide metal flange (horizontal or vertical), or metal snap arms for panel thickness up to 8 millimeters, optimizes filter and shielding effect.



Ground loops arise through different impedances of different ground line connections in one or multiple pieces of equipment. While all ground connections have the same potential level for the 50 Hz load current, these can have different potential levels for high-frequency. The ground line choke, which is wired between the power-inlet connector and the filter output, smartly addresses this phenomenon. Because of its placement directly at the power line input, high-frequency interference currents on the ground line are prevented from bypassing the filter through the equipment housing. The ground line choke isolates the equipment chassis against high frequencies and the equipment ground from power line ground. This approach effectively breaks any possible ground loops.

Audio equipment for instance is known for being prone to ground loop problems. Often referred to as hum or buzz, the DD12 with ground line choke is well suited for suppressing interferences that lead to diminished sound quality. The DD12 is also well suited for medical equipment required to use low leakage filters for increased patient safety according to IEC 60601-1. The ground line choke helps to improve upon the asymmetric attenuation due to the reduced Y capacitance. Other applications include equipment that requires particularly high immunity such as IT equipment according to IEC 60950-1.

The DD12 series is certified for currents up to 10 A/250 VAC according to IEC and 8 A according to UL/CSA at 125/250 VAC. It is ENEC and cURus approved. Pricing for the DD12 complete with fusedrawer starts at \$23.12 each per 100 pieces. Packaging is 10 pieces per box. DD12 data sheet link is <https://schurter.com/en/datasheet/DD12>. For sales and product information, contact Cora Umlauf at (800) 848-2600 or by email at info@schurterinc.com.

About SCHURTER Inc.

SCHURTER is a progressive innovator and manufacturer of electronic and electrical components to industries worldwide. The Components Division is comprised of units: [Circuit Protection](#), [Connectors](#), [Switches](#), and [EMC Products](#), including measurement services as well as the Solutions unit, which offers customers a total interdisciplinary package. Division Input Systems offers complete touchscreen solutions including displays, housings and electronics. The two divisions focus on providing clean and safe supply of power and making equipment easier to use. These core competencies bring a high degree of innovation to SCHURTER's main markets Medical, Automotive, Energy, Data Communications, Avionics and Space, as well as the broader Industrial market.

SCHURTER meets its customers' highest demands through certified quality, environmental and safety management systems, ISO 9001, ISO 14001, OHSAS 18001, using highly developed Six Sigma processes. Processes certified according to the Automotive Standard IATF 16949: 2016 assure AEC-Q200 qualified protection devices, while processes certified to the most demanding of standards by the European Space Agency, ESA, are also in place to assure ESCC QPL listed for use in space flight applications. Additionally, SCHURTER components are suited for use in equipment according to IEC / UL 60601-1 and IEC / UL 60601-1-11, which outlines additional safety measures specific to medical equipment intended for use in the home. Components are also suitable for use in Data Communications equipment according to IEC / UL 60950.

SCHURTER Inc., Santa Rosa, California is the exclusive North America sales and distribution office for the SCHURTER Group.