

Pressemitteilung Press Report Communiqué de Presse

AGENTUR: Werbewerkstatt Fischer Höher Weg 29 58511 Lüdenscheid
DEUTSCHLAND

[Thermally optimized hollow-fin cooling aggregates](#)

Constantly increasing power densities in electronics and power electronics require the use of efficient cooling methods in order to meet the component life specified by the manufacturer. The really big thermal power losses, e.g. for converters or switchgears, are often in the scale of a few kilowatts and are very effective to heat by means of high-performance cooling aggregates. For this purpose Fischer Elektronik GmbH & Co. KG is expanding its extensive product portfolio of high-performance cooling aggregates by two more designs with the article number LA 34 in the dimensions (WxH) 80 x 83 mm and LA 35 in the dimensions (WxH) 160 x 83 mm. As it is usual for high-performance cooling aggregates the new designs are also available with an additional airflow chamber for generating a laminar air flow under the part numbers LAV 34 and LAV 35. The basis of the new aggregates is an extruded U-shaped aluminum profile with a special press-in geometry into which also extruded aluminum hollow fins are pressed in using special devices and tools in a form-fitting and thermally optimized manner. The 14mm thick base plate on one side ensures a good heat spreading within the structure, but also serves as a mounting surface for the electronic devices to be cooled. The high-performance fans used in the dimensions 80x80mm with a volume flow of 222 m³/h are adjusted in terms of their performance data specifically to the overall structure and the geometry of the heat exchange surfaces of the aggregates and are therefore very effective. Depending on the customer's application environment, the axial fans are available in 12, 24 and 48 Volt. Another added value of the high-performance cooling aggregates is the use of new tool technologies and concepts in extrusion, but also in the pressing of the individual hollow fins. The hollow fins are made with very thin walls and the press-fit geometry in the base profile has also been developed in a smaller distance to each other. This increases the number of fins, specifically by two fins, compared to conventional variants of the same dimensions, with the total number increasing from five to seven for the same installation space per chamber. Because of this there is also a larger surface for heat dissipation so that an improvement in efficiency is also achieved in the field of thermal performance. Due to the new design and construction, weight is also saved compared to other superstructures in the same geometrical dimensions, more precisely said approx. 1.2 kg per meter for article LA 34 and 2.1 kg per meter for version LA 35. Additional mechanical CNC processing, modifications or special designs and surfaces are implemented according to customer-specific specifications.

Please contact us, for further information and inquiries the product experts of Fischer Elektronik GmbH & Co. KG are pleased to be at your disposal, also at www.fischerelektronik.de.

Our service enables you to download the photoprint version (300 dpi).



Fischer Elektronik GmbH & Co. KG
GERMANY / DEUTSCHLAND
phone: +49 2351 435-0
fax: +49 2351 435-191
info@fischerelektronik.de
www.fischerelektronik.de