

Press Release

Lucerne, 31.01.2016
M645

 **SCHURTER**
ELECTRONIC COMPONENTS

Successful Development Collaboration between ESA and SCHURTER AG

SCHURTER has maintained a development collaboration with the European Space Agency (ESA) for many years. Two fuses have already been qualified by the ESA for use in space.



On January 29, 2016, after an intensive evaluation and qualification process in cooperation with representatives of the European Space and Research and Technology Center (ESTEC) from Holland, SCHURTER received certification of the HCSF fuse. Eight years after the successful qualification of the MGA-S, SCHURTER is still the only Swiss company and thus also the only European supplier of fuses with this qualification [1].

The MGA-S [2] is a SMD (surface mounting device) fuse, which is manufactured with thin-film technology and is hermetically sealed with the ceramic housing and designed to be extremely robust. Similarly, the new HCSF fuse [3] was developed for applications with higher rated currents. The approaches to solutions of this development are summarized in the history of this successful cooperation [4]. Besides the description of the technical possibilities, the relevant collaboration documents with the ESA are also referenced therein.

Both fuses meet the exceptionally demanding requirements of the aerospace industry, e.g., consistent properties during operation in a high vacuum or an acceleration of 1,600 g's. Further relevant details about the products are listed in the respective data sheets. Each article delivered goes through a specified burn-in test lasting 168 hr at 85°C and 96% of the rated current. As a result, the failure rate of the fuse during operation is practically reduced to zero. The products are provided with an extensive test report.

SCHURTER is proud to be listed as the supplier of qualified products on the ESA webpage [5]. The excellent quality of the SCHURTER products is based on focused, market-oriented development in close cooperation with our partners as well as use of state-of-the-art manufacturing processes and production facilities. The company is distinguished by its consistent quality management.

Internet:

[Qualified Manufacturer acc. ESCC Specificationen](#) [1]

[Datasheet MGA-S](#) [2]

[Data Sheet HCSF at ESA](#) [3]

[Success Story: ESA Cooperation](#) [4]

[ESCC QPL \(Qualified Parts List\)](#) [5]

Company:

SCHURTER is an internationally leading innovator and manufacturer of electric and electronic components. The company focuses on safe power supply and easy-to-use equipment. Its extensive product portfolio comprises standard solutions in the fields of circuit protection, plugs and connectors, EMV products, switches, input systems and electronic manufacturing services. SCHURTER's global network of representative offices ensures reliable delivery and professional customer service. Where standard products are unsuitable, the company develops client-specific solutions.

Contact:

If you require further information, please contact SCHURTER using the following information.

Division Components
SCHURTER Group

SCHURTER AG
Product Marketing
Werkhofstrasse 8-12
PO Box 4168
6002 Lucerne
Switzerland
T +41 41 369 31 11

contact@schurter.ch
schurter.com

[1]: <https://escies.org/webdocument/showArticle?id=787&groupid=6>

[2]: <http://www.schurter.com/en/datasheet/MGA-S>

[3]: <https://escies.org/download/webDocumentFile?id=62332>

[4]: http://www.schurter.ch/content/download/805922/31974595/Sicherung_f%C3%BCr_die_Raumfahrt_1306_DB.pdf

[5]: <https://escies.org/webdocument/showArticle?id=119>