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MGA-A COTS+ 1206 SMD fuse is lead-free, thwarts tin whiskers and dendrites

Santa Rosa, California, August 13, 2018 – SCHURTER extends its successful MGA range of 1206 SMD ceramic fuses to include a COTS+ version for aviation applications. The MGA-A is completely lead-free, while protecting against the formation of tin whiskers and dendrites.



Crystalline tin dendrites and tin whiskers pose a considerable risk of short circuits in highly dense electronics. Dendrites form during the electro-deposition process, whereby heavy marks could appear on the fuse end caps or housing. A thorough inspection and cleaning is required according to MIL-PRF 23419. Tin whiskers on the other hand form after the electro-deposition process. The cause is not well understood, although adding lead to otherwise pure tin soldering is commonly used as a preventable measure.

The natural element of lead, however, has become known as a toxic element. As such, it is mostly eliminated from soldering through the implementation of environmental initiatives, e.g. RoHS directives. The MGA-A uses gold alternatively to lead. Gold plated end caps provide a surface where neither whiskers nor dendrites can form. The technical design of the MGA-A is essentially the same as the MGA COTS version and the MGA-S, which is the version up-screened for European Space Agency (ESA) qualification and ESCC listing. With its ultra-robust thin-film construction, hermetic seal, and operating temperature range of -55°C to +125 °C, the MGA-A is a safe solution for use in not only highly sensitive electronics in the aviation industry, but also in widespread industrial-grade applications including intrinsically safe applications according to ATEX and IECEx requirements.

The MGA-A is cURus approved for 0.2 A – 5 A, with a particularly high breaking capacity of up to 300 A at 125 VDC for currents up to 3A; 32 VDC for 4 and 5 A versions. Humidity and moisture tested to MIL STD 202. Shock and vibration tested to IEC 60068-2. Pricing for the series is \$2.68 each at 500 pieces. Packaging is 100 pieces in bags, or 750, 3K or 10K tape and reel. The MGA-A data sheet link is <https://us.schurter.com/en/datasheet/MGA-A>. 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.

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