

# SCHOTT GTAS<sup>®</sup> Leak-tight Capacitor Lids

Enabling production of Aluminium Electrolyte Capacitors & EDLCs with higher capacitance and longer service life

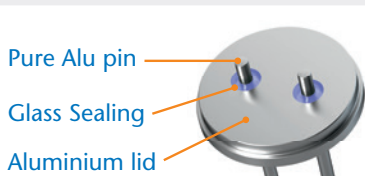


## **i** Aging affects polymer sealing

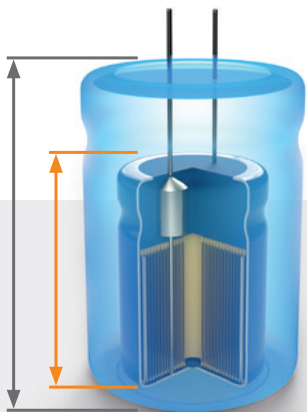
A common cause for electrolyte loss is evaporation through the polymer sealing of the capacitor terminals. Polymers, like all organic materials, are subject to aging processes over time. This can cause them to become brittle and result in the capacitor losing gas-tightness.

## Electrolyte leakage impacts capacity

As a consequence of aging polymer sealing, electrolytes can evaporate over time. This negatively impacts capacitor performance severely through reduction of capacitance and rise of internal impedance, both factors that can reduce capacitor service life.



**GTAS<sup>®</sup> Gas-tight Capacitor Lids Prevent Electrolyte Leakage**  
SCHOTT glass-to-aluminium sealed capacitor lids are designed to eliminate electrolyte dry-out in aluminium electrolyte capacitors by using a specialty glass seal for capacitor pins, replacing organic polymer or rubber sealing material.  
(GTAS: glass-to-aluminium seal)



## With GTAS<sup>®</sup> Capacitor Lids, a small design change enables significant reduction in the size of the capacitor

### Product Advantages

- Extreme temperature resistance, from -40°C to +150°C
- Reduction of capacity loss over time by up to 60%
- Up to 20% reduction in needed electrolyte volume
- Improvement of internal resistance by more than 50%
- Long service lifetime (values depend on capacitor design)

## Glass-to-metal sealed Battery Lids – The preferred and proven packaging technology for Lithium Primary Batteries

Glass-to-aluminium sealing (GTAS) is a proprietary technology developed based on SCHOTT's expertise in glass-to-metal sealing (GTMS) since 1939. Glass-to-metal sealing is the standard packaging for millions of high-performing, long-life Lithium Primary Batteries in automotive electronics and many other applications.



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