

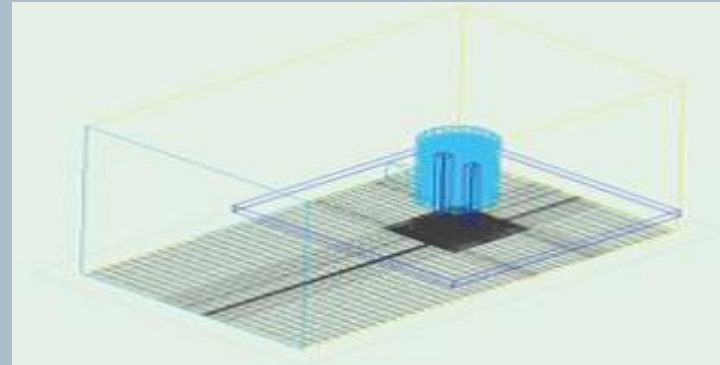
Lenovo, China

Improves product reliability with Simcenter Flotherm

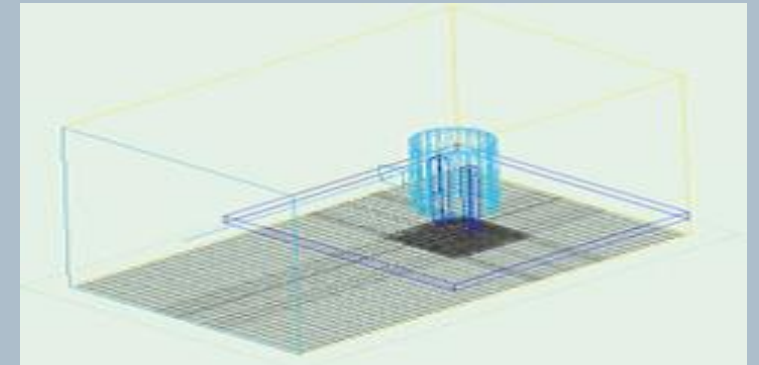


- **Simcenter Flotherm was used at the device level to understand the heat transfer behaviour in the electrolytic capacitor, a key contributor to the overall reliability of a design.**

Improving Product Reliability with Simcenter Flotherm



Original model



Grid of simplified model

- Electrolytic capacitors are widely used in electric circuits, and their durability is an important contributor for the entire lifespan of an electric device.

“A 10°C temperature raise will degrade the lifetime of the capacitor by 50%. In order to devise an adequate cooling solution to prevent the electrolytic capacitor from overheating or even burning, the thermal designer needs to completely understand the component’s thermal characteristics.”

Zhigang NA, ThinkPad Development Lab, Lenovo